

16Th HALF YEARLY REPORT FOR MUMBAI TRANS HARBOUR LINK

July to
Dec
2023



Submitted to
Maharashtra Pollution Control Board (MPCB)

Submitted by



**एमएमआरडीए
MMRDA**

Information of Project officer and Nodal officer

1.	Name of Project officer Email Phone /Fax Number	Executive Engineer, MTHL- Project Implementation Unit 2 nd & 5 th floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051 Phone No.: 022-26594034
2.	Name of Nodal officers Email Phone /Fax Number	Engineer In Chief, MTHL Project Implementation Unit 2 nd floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, BKC, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051 Email: engineerinchief@mailmmrda.maharashtra.gov.in Phone No.: 022-26594032

Photographs showing present progress of work.

Please refer to the Quarterly Progress Report No. 27 (October-December'23) and 26 (July-sept 23) for the photographs of the progress

Monitoring the Implementation of Environmental Safeguards

Ministry of environmental & Forest Western Region, Regional Office, Bhopal

Monitoring Report

PART - I

DATA SHEET

No.	Particular	Information
1.	Project type: River Valley / Mining / Industry / Thermal / Nuclear / Others (specify)	: Infrastructure
2.	Name of the Project	: Mumbai Trans Harbour Link Project
3.	Clearance letter (s) / OM No. and date	: F. No. 11-65/2012-IA.III on 25 th January, 2016
4.	Location	Start point: Sewri in Mumbai City
	a) District (s)	: End Point: Chirle in Raigad District
	b) State (s)	: Maharashtra
	c) Location latitude / longitude	: Start: Latitude: 18°59'48.57"N Longitude: 72°51'20.67"E End: Latitude: 18°56'18.33"N Longitude: 73° 1'52.92"E
5.	Address for Correspondence	: Engineer In Chief,
	a) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	MTHL Project Implementation Unit 2 nd floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, BKC, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051
	b) Address of the Concerned Project Chief Engineer (with Pin code & Telephone / Telex / Fax Numbers)	Phone No.: 022-26594034
6.	Salient features	: The proposed Mumbai Trans Harbour Link ('MTHL') is
	a) of the Project	proposed to facilitate decongestion of the island city by improving connectivity between Island city and main land (Navi Mumbai) and development of Navi Mumbai Region.

No.	Particular	Information
		<p>Mumbai Trans Harbour Link Project is 22 km long 6-lane bridge across the Mumbai Bay connecting Sewri on Mumbai side to Chirle on Navi Mumbai side.</p> <p>Benefits:</p> <ul style="list-style-type: none"> • Saving in travel time, Vehicle Operating Cost and Fuel Savings • Accelerated growth of Navi Mumbai • Decongestion of island city of Mumbai • Connectivity to MbPT and JNPT Ports • Faster access to Navi Mumbai International Airport • Connectivity to Pune Expressway and to South India
	b) of the Environmental Management Plans	Various measures stipulated in the Environmental Management Plan mentioned in the CRZ clearance are being complied.
7.	Breakup of the Project Area	: Total Area of Right of Way: 120.228 Ha
	a) Submergence area: forest & non forest	Forest area: 47.417 Ha Non-Forest area: 72.811 Ha
	b) Others	--
8.	<p>Breakup of the project affected population with the enumeration of those losing Houses / Dwelling units only, Agricultural Land & Landless Laborers / Artisans:</p> <p>a) SC, ST / Adivasi</p> <p>b) Others</p> <p>(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)</p>	<p>: Project affected population:</p> <p>Please refer to the Quarterly Progress Report No. 26 and 27 for the project affected population attached as Annexure-VI</p> <p>MMRDA has approved eligibility of 6645 fisher folks as project affected so far. Accordingly, fisheries department, Gov. of Maharashtra has paid compensation to eligible fisher-folk as per approved Fisherman Compensation Policy</p>
9	Financial Details: Project cost as originally planned and subsequent revised estimates and the year of price reference	: The total cost of the project is Rs. 17,843 Crore
a)		Year of reference: 2016
b)	Allocation made for	: Allocation of Rs. 335 Crore has been made for the

No.	Particular	Information
	environmental management plans with item wise and year wise breakup	implementation of the Environment Management Plan for the MTHL project. The item-wise cost breakup of the EMP is attached as Annexure-II .
c)	Benefit cost ratio/Internal rate of Return and the year of assessment	-
d)	Whether (c) includes the cost of environmental management as shown in the above	-
e)	Actual expenditure incurred on the project so far	Rs. 18135 Crore
f)	Actual expenditure incurred on the environmental management plans so far	Please refer Annexure-VII for actual expenditure incurred on the environmental management plans so far.
10	Forest Land Requirement	
a)	The status of approval for diversion of forest land for non-forestry use	: Stage – I clearance approval for diversion of forest land for non-forestry use has been received from MoEF & CC on 22 nd January 2016 vide letter F.No.8-89/2013-FC. Stage II clearance received on 23.1.24 vide Government Order No.FLD-1313/C.R.206/F-10 (Attached as Annexure-VIII)
b)	The status of clearing felling	: NOC from Hon. High Court for cutting of mangroves is received on 28 th November 2016. Working Permission from Forest Department received on 22 May 2017.
c)	The status of compensatory afforestation, if any Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	: Rs. 91.42 crores have been transferred to Mangrove cell of Mangroves & Marine Biodiversity Foundation, setup under Maharashtra State Forest Department for Compensatory Afforestation (CA). Mangrove cell, Mumbai submitted updated status report of plantation (Attached as Annexure-VIII)
11	The status of clear felling in non-forest areas (such as submergence area or reservoir, approach roads.), if	: Commencement Letters have been issued to the Contractors of Package-1, Package-2 and Package-3 on 23 March 2018.

No.	Particular	Information
	any with quantitative information required.	Permission for cutting/transplantation in non-forest area of Navi Mumbai side has been granted by CIDCO. Copy of permission letter is attached herewith as Annexure-IX . However, felling in non-forest area has not started yet
12	Status of construction (Actual&/or planned)	Please refer to the Quarterly Progress Report No. 25 and 26 attached with this report as Annexure-VI .
a)	Date of commencement (Actual & / or planned)	: Commencement Letters have been issued to the Contractors of Package-1, Package-2 and Package-3 on 23 March 2018. Pkg 4 05.05.2022
b)	Date of completion (Actual &/or planned)	: Date of completion planned of Package 1 & 2 is 21-09-2022 and for Package 3 is 21-09-2021. Pkg 4 05.05.2022 Extension of Time (EoT) has been granted to the contractors is below: Package 1: 15-12-2023 Package 2: 15-12-2023 Package 3: 07-12-2023 Package 4 :- 15-12-2023
13	Reasons for the delay if the project is yet to start	: Due to Covid 19 pandemic situation and Land Acquisition issues a project was delayed, and Extension of Time (EoT) has been granted up to Dec 2023. Annexure – XI .
14	Dates of Site Visits	
a)	The dates on which the project was monitored by the Regional Office on previous occasions, if any	: 1) 08.03.2023 - by MOEF Nagpur 2) 22.05.23 - by EAC for CRZ extension
b)	Date of site visits for this monitoring report	: 1. Site Visit for CCR by MOEF Nagpur on 08.03.2023 2. Site Visit by EAC Team for CRZ extension on 22.05.23

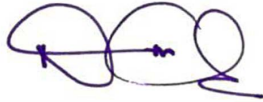
July to Dec 2023

Name: - Shri. ~~S. A. Wadhwa~~ ^{D. M. Chomalwar}

Engineer In Chief, MTHL Project Implementation Unit

New Administrative building, MMRDA, 2nd floor, Engineering Department, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, BKC, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051
Phone No.: 022-26594034

Signature:



Stamp:



HALF YEARLY COMPLIANCE REPORT

1.	Project Type	:	Infrastructure
2.	Name of the Project	:	Mumbai Trans Harbour Link (MTHL) Project
3.	Clearance letter and date	:	1. F. No. 11-65/2012-IA.III on 25 th January, 2016 2. IA/MH/CRZ/411891/2022; F.NO.11-65/2012-IA.III] Ext. up to Jan 2026 vide MOM dated 21 st June 2023
4.	Location	:	
	a. District	:	Start point: Sewri in Mumbai City End Point: Chirle in Raigad District
	b. State	:	Maharashtra
	c. Latitude/Longitude	:	Start: Latitude: 18°59'48.57"N Longitude: 72°51'20.67"E End: Latitude: 18°56'18.33"N Longitude: 73° 1'52.92"E
5.	Address of correspondence	:	
6.	a. Address of concerned project Head	:	Chief Engineer / Engineer in Chief, MTHL Project Implementation Unit 2 nd floor, New Administrative building, MMRDA, Engineering Division, Mumbai Metropolitan Region Development Authority (MMRDA), E-Block, Bandra Kurla Complex, Bandra East, Mumbai, Maharashtra 400051 Phone No.: 022-26594034

Compliance to the Conditions Recommended in CRZ Clearance-2013

S. No.	Condition of 2013 clearance	Compliance
7. Specific Conditions		
(i)	As per the CRZ Notification 2011, at least five times the number of mangroves destroyed/cut during the construction process shall be replanted. Mangrove plantation in an area of 30 ha shall be carried out as committed against loss of 0.1776 ha mudflats/mangroves. Permission from the High Court of Bombay shall be obtained with respect to mangrove cutting.	Noted, about 25 Crores have been contributed by MMRDA to Mangroves Fund, as an initiative by Govt. of Maharashtra for Conservation and Protection of Mangroves in Coastal areas. The amount is used for Survey & Demarcation of Notified areas. Purchase of vehicles and equipment for anti-Encroachment drives, etc. Permission copy of High court for mangrove cutting attached as Annexure-I
(ii)	Proponent shall provide lighting in consulting with the Bombay Natural History Society (BNHS) so as to minimize the likely impacts to the migratory birds.	Lighting for MTHL has been selected in consultation with BNHS and low wavelength lighting (500-600 Nm) is used as recommended Copy attached Annexure XII
(iii)	All the construction equipment's shall be provided with exhaust silencers as committed.	Noted, all the construction equipment used by contractors is provided with exhaust silencers to reduce noise. Photographic evidence of same attached as Annexure-III
(iv)	Noise containment barriers shall be provided on both sides of the bridge in mudflat areas (CRZ-IA) so as to minimize the likely impacts to the migratory birds as committed	Noise containment barriers have been provided by the Package-I and Package-II on both sides of the bridges to minimize the likely impact to the migratory birds. 1.14 Cr is booked under this head so far final amount will be informed after final invoice raised by the packages.
(v)	There shall be no dredging and reclamation for the project	The proposed project is for the construction of 6 lane road bridge across the Mumbai Harbour between Sewari in MbPT area and Chirle in Navi Mumbai to improve connectivity and facilitate traffic decongestion and hence does not involve dredging and

S. No.	Condition of 2013 clearance	Compliance
		reclamation works
(vi)	Pre-stressed super structure shall be used in the mud flat area for construction as committed	Noted and is being proposed in the mudflat area
(vii)	The muck materials shall be analysed prior to dumping/disposal in the identified locations with the approval of the competent authority to ensure that it do not cause any impact to the environment.	Noted and has been complied on. Excavation work has been completed trend analysis of all Environmental Parameters is attached as Annexure-IV
(viii)	The proponent informed that there is no fishing activity in the area since it is a navigation channel for the nearby ports. However, navigational channel is provided with 25 m from ships and 9.1 m from fishing boats.	Noted and complied
(ix)	All the recommendations of the MCZMA shall be strictly complied with.	Noted and being scrupulously complied
(x)	There shall be no building construction beyond 20,000 sqm.	The proposed project is for the construction of 6 lane road bridge across the Mumbai Harbour between Sewari in MbPT area and Chirle in Navi Mumbai to improve connectivity and does not involve construction of buildings. However, during construction phase of the project temporary site offices and work camps will be constructed which will be well within 20,000 sqm area
(xi)	There shall be no water drawal in CRZ area.	The proposed project does not involve abstraction of the ground water in CRZ area. The water demand for the proposed project is being met through tanker water
(xii)	There shall be no disposal of solid or	The project strictly complies with the

S. No.	Condition of 2013 clearance	Compliance
	liquid waste in coastal area. Solid waste management shall be as per Municipal Solid (Management and Handling) Rules, 2000.	new SWM rules 2016 and subsequent amendments and the solid and liquid waste and segregated at source, collected and disposed as per the abovesaid rules. Biodegradable waste is being used for composting at site and non-biodegradable waste will be handed over to authorized agencies for disposal.
(xiii)	Sewage shall be treated and Treatment Facility shall be provided in accordance with the Coastal Regulation Zone Notifications 2011, The disposal of treated water shall conform to the regulation of the State Pollution Control Board.	Noted and complied
(xiv)	The project proponent shall set up a separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of senior executive	Noted and complied, An Environmental Management Cell has been set up and the structure of the committee comprise experts from National Institute of Oceanography; Representative of BNHS; renowned expert in Ornithology; Director, Fisheries Institute, Versova, Andheri; Head of Coastal Engineering, IIT, Mumbai and Representative of Environment Department and Maharashtra Pollution Control Board. The officer of MMRDA is acting as a Member Secretary to coordinate the quarterly meetings of the committee. 16 meetings with the members have already commenced till date.
(xv)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purpose.	Noted, Total fund allocated for the environmental management is 335 crores and till date 398.94 Cr has been spent EMP expenditure details attached as Annexure-V .
8. General Conditions		

S. No.	Condition of 2013 clearance	Compliance
(i)	Full support shall be extended to the officers of the Ministry/Regional Office of Bhopal by the project proponent during inspection of the project for monitoring purpose by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities	Noted and being complied
(ii)	A six-monthly monitoring report shall need to be submitted by the project proponent to the regional office of this ministry at Bhopal regarding the implementation of the stipulated conditions	Noted and is being complied.
(iii)	Ministry of Environment and Forest or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary, in the interest of environment and same shall be complied with	Noted and will be adhered
(iv)	The Ministry reserve the right to revoke this clearance if any of the conditions stipulated are not complied with to the satisfaction of the Ministry	Noted and will be adhered
(v)	In the event of a change in project profile or change in the implementation agency, afresh reference shall be made to the Ministry of Environment and Forests	Noted and will be adhered
(vi)	The project proponents shall inform to the Regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work	Noted and will be adhered
(vii)	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO if any, from whom any suggestions/representations has been made a received while processing the	Noted and complied. Annexure-X

S. No.	Condition of 2013 clearance	Compliance
	proposal	
(viii)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office/Tehsildar's office for 30 days.	-----
9.	The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance Act), 1991 and EIA notification 1994 including the amendments and rules made thereafter	Noted and complied
10.	All other statutory clearances such as approvals for storage of diesel from Chief Controller of Explosive, Fire Department, Civil Aviation Department and clearances under the Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities	<p>Noted and complied.</p> <p>Clearances under Forest Conservation Act, 1980 has been taken by MMRDA from MoEF & CC on 22nd January 2016 vide letter F.No.8-89/2013-FC.</p> <p>The project proponent had allotted the construction work to L&T and JV of Daewoo and Tata through contract and the statutory clearances such as approvals for storage of diesel from Chief Controller of Explosive, Fire Department, Civil Aviation Department has been taken by them.</p> <p>After completion of the project MMRDA will ensure compliance.</p>
11.	The project proponent shall advertise in at least two local newspapers widely circulate in the region, one of which shall be in a vernacular language informing that the project has been accorded CRZ Clearance and copies of the clearance letter are available with the State Pollution Control Board and may also be	<p>Noted and complied.</p> <p>The advertisement for accord of the CRZ clearance was published in the (Lok Satta and Indian Express on 30.01.2016)</p> <p>Annexure-X</p>

S. No.	Condition of 2013 clearance	Compliance
	seen on the website of the Ministry of Environment and Forest at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of the receipt of the clearance letter and a copy of the same should be forwarded to the Regional office of this ministry at Bhopal	
12	The clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	Noted
13	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010	Noted
14	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent on its website.	Noted and Complied The status of the compliance of stipulated EC conditions are uploaded on the website of MMRDA
15	A copy of the clearance letter shall be sent by the proponent to be concerned Panchayat, Zilla parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Clearance letter shall also be put on the website of the company by the proponent.	Noted and Complied
16	The proponent shall upload the status of the compliance of stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the	Noted and complied The status of the compliance of stipulated EC conditions, including results of monitored data are uploaded on the website of MMRDA and also submitted to Regional Office of the

S. No.	Condition of 2013 clearance	Compliance
	Regional Office of the MoEF, the respective Zonal Office of CPCB and the SPCB	MoEF&CC, the respective Zonal Office of CPCB and the SPCB
17	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated EC conditions including results of monitoring data (both in hard copies as well as by e-mail) to the respective Zonal Office of CPCB and the SPCB	Noted and complied
18	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rule 1986 as amended subsequently, shall also be put on the website of the company along with the status of the compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Noted and Complied

Compliance to the Conditions Recommended in CRZ Clearance-2016

Sr. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
i.	All the terms and conditions stipulated by the MCZMA in their letter No. CRZ 2015/CR236/TC 4 dated 26 th November 2015 shall be strictly complied with.	Noted. MMRDA is following the conditions stipulated in the CRZ Clearance.
ii.	All the terms and conditions as mentioned in the earlier CRZ Clearance dated 19 th July 2013, shall also be complied with in letter and spirit,	Noted. MMRDA is following the conditions stipulated in the CRZ Clearance dated 19 th July 2013.
iii.	The Environment Management Plan as presented during the meeting shall be implemented in consultation with all the stakeholders.	MMRDA is implementing the Environment Management plan as stipulated in CRZ clearance. The implementation plan with detailed EMP is attached as an Annexure V

Sr. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
iv.	The project/activity shall be carried out strictly be in accordance with the provisions of CRZ Notification, 2011, and shall not affect the coastal ecology of the area including flora and fauna.	Noted and is being complied
v.	The project proponent shall obtain all permissions from concerned authorities prior to commencement of the project and shall observe all safety requirements onshore and offshore.	Noted and complied.
vi.	The project proponent shall not undertake any blasting/construction activities during night hours.	This condition has been revised by MoEF& CC vide letter dated 28 th August, 2017 having file no F. No. 11-65/2012-IA. III. Refer Annexure-VI (QPR)
vii.	The proposal indicates the diversion of 47.417 ha forest land for which the proponent shall obtain the requisite Forest Clearance. The project may be executed in the entire stretch in non-forest land, and while making application to get the Forest Clearance, the execution of work on non-forest land shall not be cited as a reason for grant of FC and in case FC is declined, the forest land shall be maintained at its existing condition. The PP shall submit an undertaking to this effect at the earliest to the concerned Regional Office to this Ministry.	<p>Stage – I clearance approval for diversion of forest land for non-forestry use has been received from MoEF & CC on 22nd January 2016 vide letter F.No.8-89/2013-FC.</p> <p>Stage – II application is submitted to Deputy Conservator of Forest vide MMRDA letter 6-3-2017 and latest compliance submitted on 10-09-2018.</p> <p>Stage II Forest Clearance received on 23.1.24 vide Government Order No.FLD-1313/C.R.206/F-10 (Attached as Annexure-VIII)</p>
viii.	All the wildlife mitigation measures as proposed by BNHS in their report dated 23.09.2015 for original alignment shall be implemented with the following modification	Noted and complied
	a) Construction of jetty on both the ends passing through mud flats and mangroves must not exceed 30 months and construction of actual spans must not exceed more that further 12 months.	Noted
	b) The distance between the supporting pillars shall remain 50 m as currently proposed by the MMRDA.	The distance between the piers is maintained more than 50 m.

Sr. No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
	c) MMRDA will partly bear the cost of setting of effluent treatment plant in the region as suggested by BNHS.	Noted and being complied
ix.	The project proponent shall not undertake any blasting/construction activities during night hours.	This condition has been revised by MoEF&CC vide letter dated 28 th August 2017 having file no F. No. 11-65/2012-IA. III.

Sr.No.	GENERAL CONDITIONS	COMPLIANCE STATUS
1	Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.	Noted and is being complied on.
2	Full support shall be extended to the officers of this Ministry/Regional Office at Nagpur by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Noted and shall be complied.
3	A Six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Nagpur regarding the implementation of the stipulated conditions.	Noted and is being complied on. List of Six-monthly compliance report uploaded are: <ol style="list-style-type: none"> 1. January to June 2016. 2. July to December 2016. 3. January to June 2017. 4. July to December 2017. 5. January to June 2018. 6. July to December 2018. 7. January to June 2019. 8. July to December 2019 9. January to June 2020 10. July to December 2020 11. January to June 2021 12. July to December 2021 13. January to June 2022 14. June to Dec 2022 15. Jan to June 2023
4	MoEF&CC or any other competent authority may stipulate any additional conditions or	Noted and shall be complied.

Sr.No.	GENERAL CONDITIONS	COMPLIANCE STATUS
	modify the existing ones, if necessary, in the interest of environment and the same shall be complied with.	
5	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with to the satisfaction of the Ministry.	Noted.
6	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the MoEF & CC.	Noted.
7	The project proponents shall inform to the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Noted.
8	A copy of the clearance letter shall be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal	Noted and complied
9	A copy of the CRZ Clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/Tehsildar's Office for 30 days.	Noted and complied.
10	The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	Noted and will be complied.
11	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, and clearances under the Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as	Noted and are being complied.

Sr.No.	GENERAL CONDITIONS	COMPLIANCE STATUS
	applicable by project proponents from the respective competent authorities.	
12	The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the regional office of this Ministry at Nagpur.	Complied.
13	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Noted.
14	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent on its website.	Stipulated environmental conditions as mentioned in CRZ are complied in six monthly compliance reports. Environmental Safeguards are incorporated in Environmental Management Plan which is being implemented as per the budgetary provisions mentioned in CRZ. Reports & Publications: Half Yearly Report (https://mmrda.maharashtra.gov.in)
16	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The	Complied.

Sr.No.	GENERAL CONDITIONS	COMPLIANCE STATUS
	clearance letter shall also be put on the website of the company by the proponent.	
17	The proponent Shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Noted. Six monthly reports on compliance & monitoring results of conditions stipulated in CRZ clearance is being submitted to MPCB Regional, sub regional office, Nagpur MPCB office, MCZMA & SEIAA.
18	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB and the SPCB.	Noted. Six monthly reports on compliance & monitoring results of conditions stipulated in CRZ clearance is being submitted to MPCB Regional, sub regional office, Nagpur MPCB office, MCZMA & SEIAA.
19	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Noted. Individual construction packages have obtained CTE for batching plant and casting yards and the stipulations are being adhered to and are uploaded on the website of MMRDA

Annexures

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Annexure III	Photographic evidence of construction equipment used by contractors are provided with exhaust silencers to reduce noise	
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Annexure X	Clearance letter marked to concerned Panchayat /local NGO	
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BDPPS

**IN THE HIGH COURT OF JUDICATURE AT BOMBAY
ORDINARY ORIGINAL CIVIL JURISDICITON
NOTICE OF MOTION NO.307 OF 2016
IN
PUBLIC INTEREST LITIGATION NO.87 OF 2006**

Mumbai Metropolitan Region
Development Authority

..... Applicant.

In the matter between

Bombay Environment Action Group
and Another

.....Petitioners.

V/s

State of Maharashtra and Others.

.... Respondents.

Mr. Saket Mone a/w Mr. Subit Chakrabarti i/b Vidhi Partners for
applicant in Notice of Motion No. 307 of 2016 in PIL No.87 of 2016.

Mr. Navroz Seervai, Senior Counsel a/w Ms. Shreya Parikh for the
Petitioner in PIL No.87 of 2006.

Mrs. P.H. Kantharia, AGP for Respondent/State in PIL No.87 of 2006.

Ms. Trupti Puranik for Respondent/BMC.

Ms. Sharmila Deshmukh for CRZ.

**CORAM: V. M. KANADE &
MS. NUTAN D. SARDESSAI, JJ.**

DATE: 28th November, 2016

P.C.:-

1. This Notice of Motion is taken out by the Applicant for carrying out construction of the proposed Mumbai Trans Harbour Link (a proposed 22 km freeway grade road bridge connecting the island city of Mumbai with Navi Mumbai).
2. The learned Counsel appearing on behalf of the Applicant submits that Applicant has obtained clearance from all the concerned authorities. He submitted that Ministry of Environment and Forest, Government of India has granted approval on 22/01/2016 and CRZ clearance has been granted on 25/01/2016. Applicant has given an undertaking in paras 12 and 27 of the affidavit in support of the Notice of Motion. The said undertaking is accepted. Applicant shall comply with all the conditions which are imposed in the said letters of sanction granted by both the authorities.
3. We are satisfied that the said project is public utility project and we grant leave in terms of prayer clause (a) of the Notice of Motion subject to conditions imposed by both the authorities.
4. Notice of Motion is accordingly allowed in terms of prayer clause (a) and disposed of.

(MS. NUTAN D. SARDESSAI, J.)**(V.M. KANADE, J.)**

Annexure-II Environment Management Plan stipulated in CRZ clearance

Sr. No	Environmental attribute	Cost in Crores
1.	Environmental Monitoring- Air Act, Water Act, Noise levels	8
2.	Compensatory Restoration Plan (Mangroves)	25
3.	Implementation of the suggestions given by BNHS	25
4.	Noise barriers	45
5.	Mitigation of marine water pollution caused due to the surrounding industries and Sewage from Urban Bodies, by providing Funding and Capacity Building for Enabling Effluent Treatment	40
6.	<ul style="list-style-type: none"> Contribution to Mangroves Fund, an initiative by Govt. of Maharashtra for Conservation and Protection of Mangroves in Coastal areas by depositing Seed Money. This can be used for Survey & Demarcation of Notified areas Purchase of vehicles and equipment for anti-Encroachment drives, etc. 	25
7.	Oil Spill Mitigation Plan	10
8.	Habitat quality assessment and monitoring Surveillance management and monitoring team for migratory birds, marine flora, turbidity in sea floor, etc Corpus fund for mudflat restoration program	20
9.	Appointment of Bird Monitor and his assistant till Restoration of Baseline data	4
10.	DMP, Firefighting, Risk Analysis	15
11.	Sustainable development including establishing Nature Interpretation Centre	10
12.	Safety and Security	15
13.	Energy conservation	10
14.	Landscaping-Plantation of trees, flower in plants etc.	8
15.	Compensation and Capacity Building of Fisher folks due to Temporary and Permanent Loss of Fishing round	75
		335 crores

**Photographic evidences of construction equipment used by contractors
are provided with exhaust silencers to reduce noise**

Attachment III



Photographic evidences of construction equipment used by contractors are provided with exhaust silencers to reduce noise

Attachment III



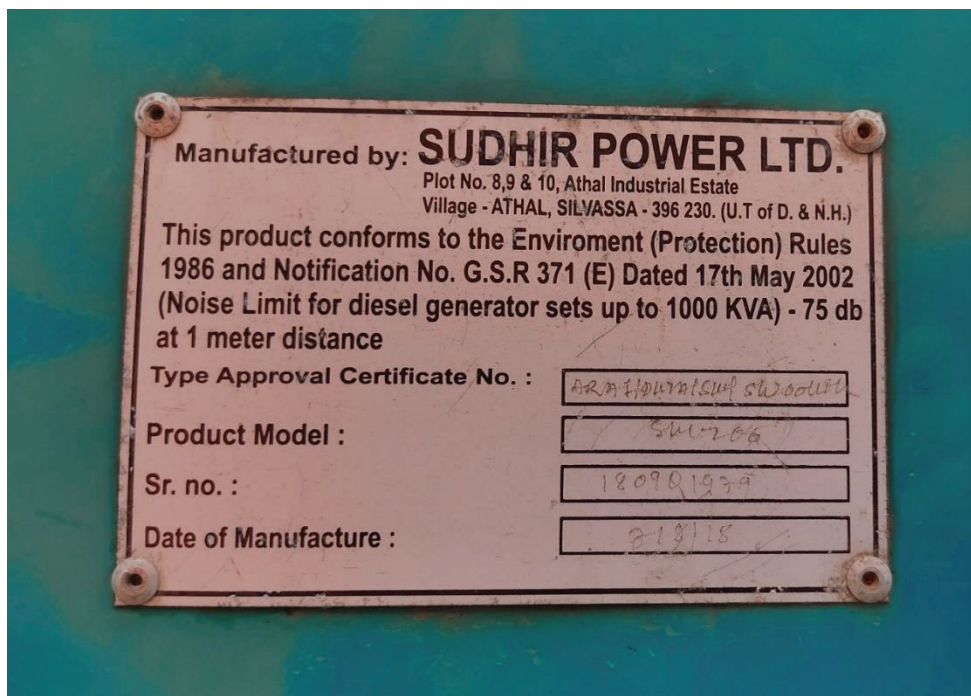
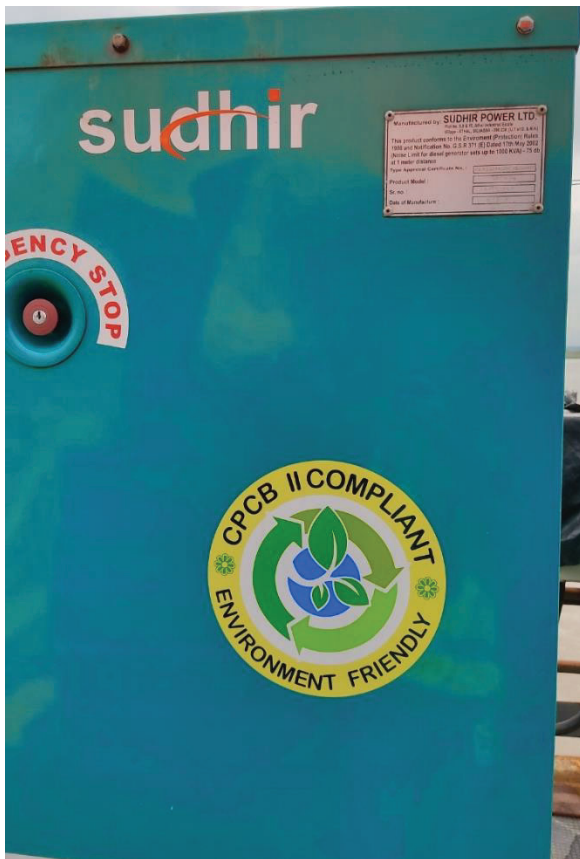
**Photographic evidences of construction equipment used by contractors
are provided with exhaust silencers to reduce noise**

Attachment III



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Attachment III



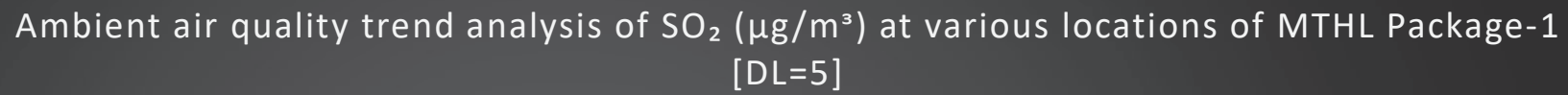
Environmental Parameters

Trend Analysis of MTHL Package 1

Ambient Air Quality Trend Analysis

Ambient Air Quality Trend Analysis for SO₂

Standards for SOx - 80 µg/m³
Note: Values indicating 0 are



Ambient Air Quality Trend Analysis for NOx

Standards for NOx - 80 µg/m³
Note: Values indicating 0 are
Below Detectable limit (DL=6)

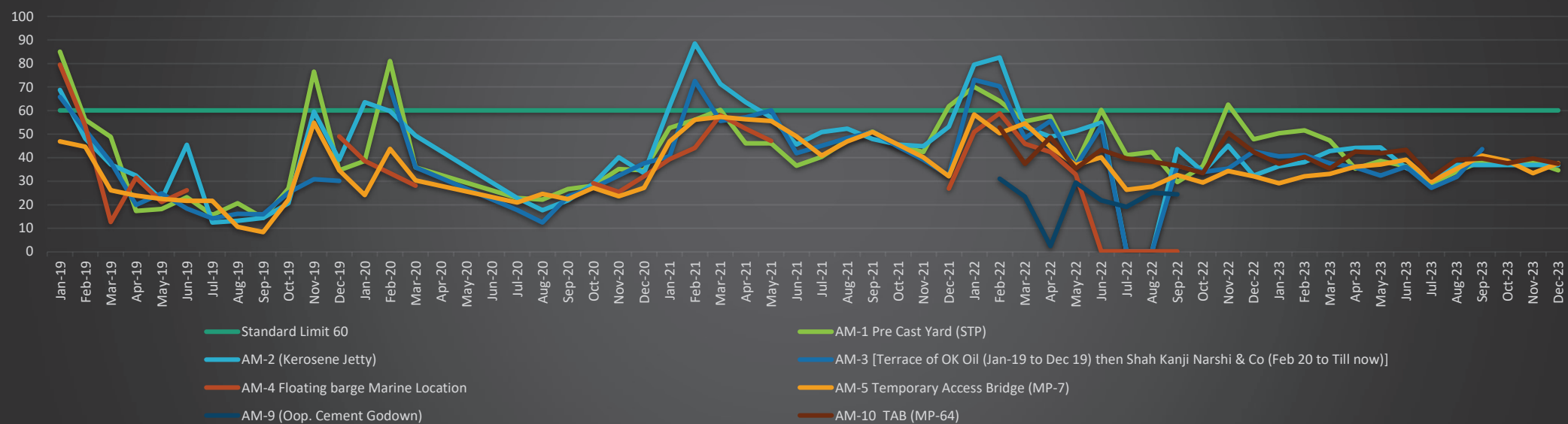
Ambient air quality trend analysis of NO₂ (µg/m³) at various locations of MTHL Package-1
[DL=5]

Standards for PM 10: 100 $\mu\text{g}/\text{m}^3$ 

Ambient Air Quality Trend Analysis for PM_{2.5}

Standards for PM 2.5: 60 µg/m³

Ambient air quality trend analysis of PM_{2.5}(µg/m³) at various locations of MTHL Package-1
[DL=5]



Ambient Air Quality Trend Analysis for CO

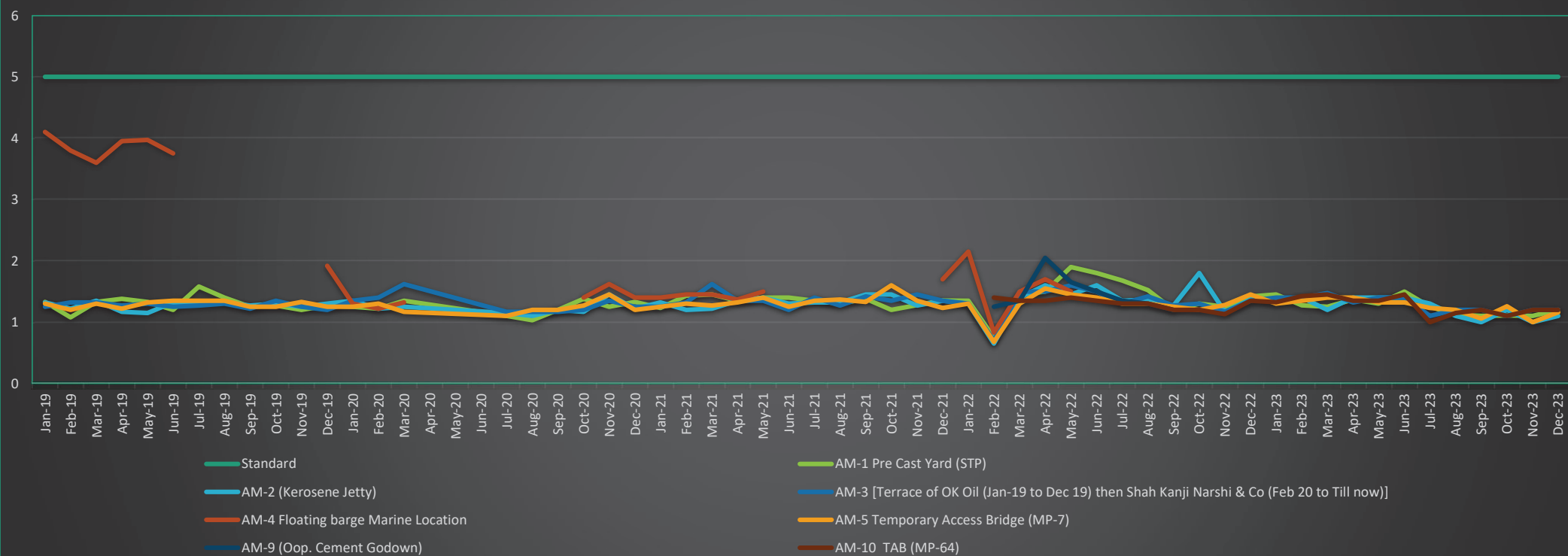
Standards for CO - 4 mg/m³
Note: Values indicating 0 are Below
Detectable limit (DL - 5)



Ambient Air Quality Trend Analysis for C₆H₆

Standards for C₆H₆ - 5 µg/m³

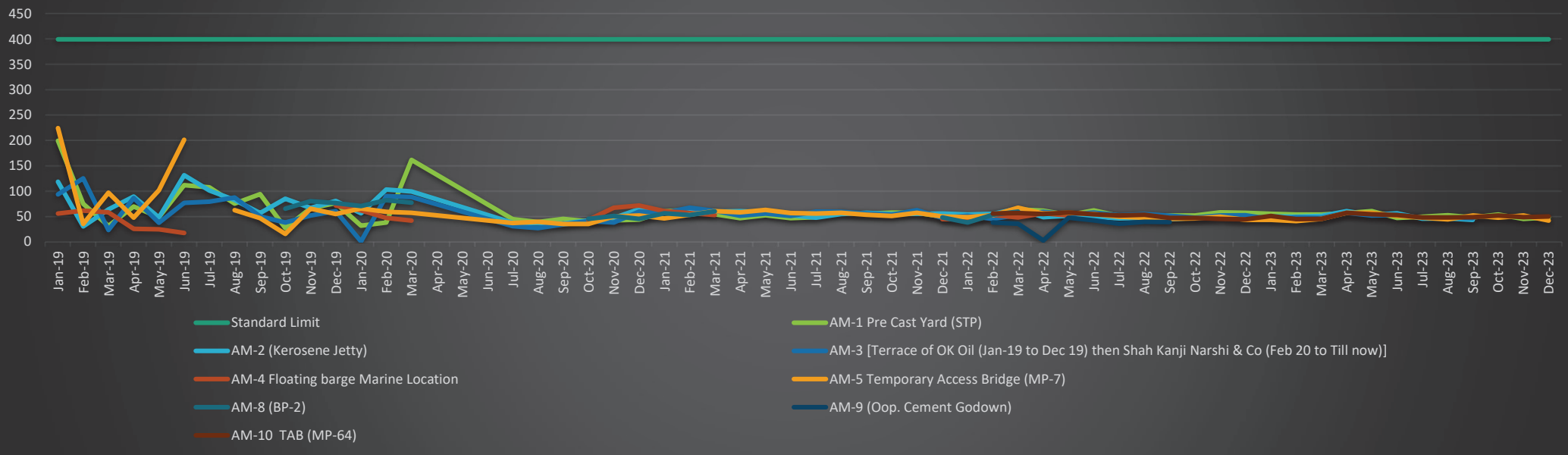
Ambient air quality trend analysis of C₆H₆ (µg/m³) at various locations of MTHL Package-1



Ambient Air Quality Trend Analysis for NH3

Standards for NH3 - 400 $\mu\text{g}/\text{m}^3$

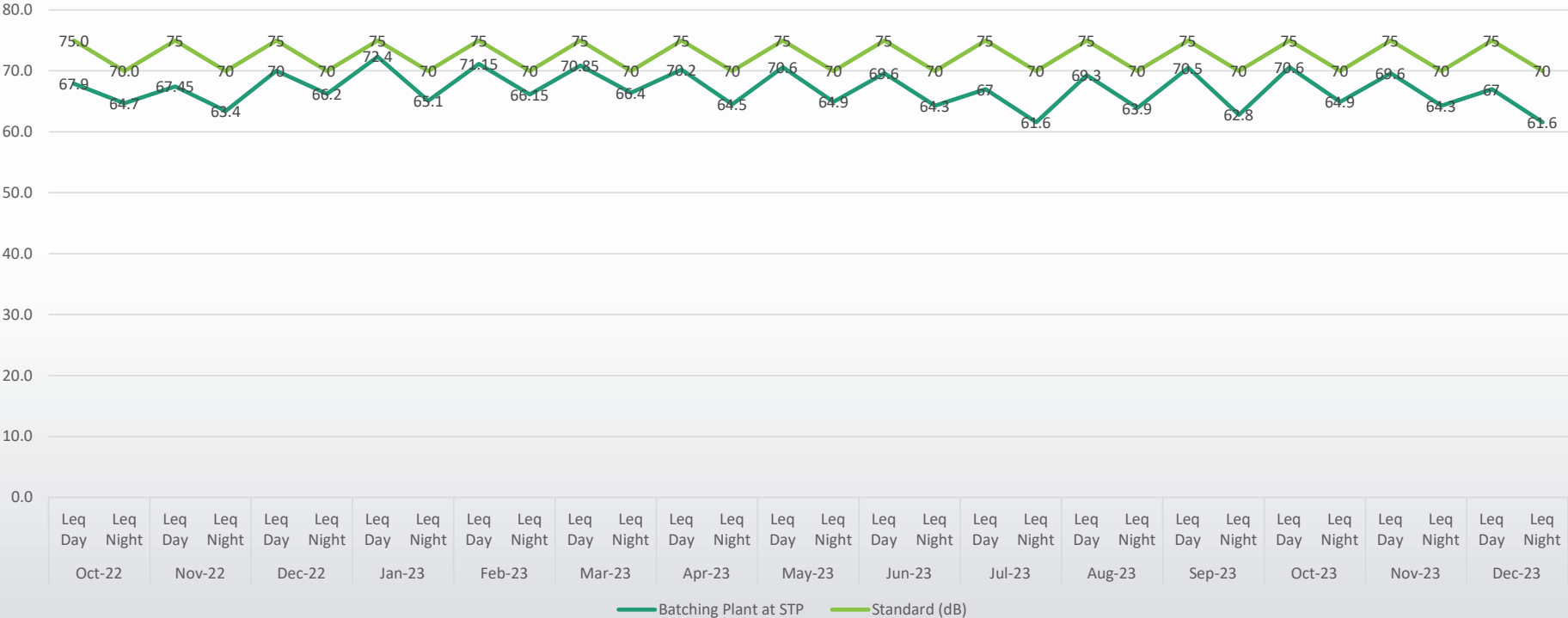
Ambient air quality trend analysis of NH3 ($\mu\text{g}/\text{m}^3$) at various locations of MTHL Package-1



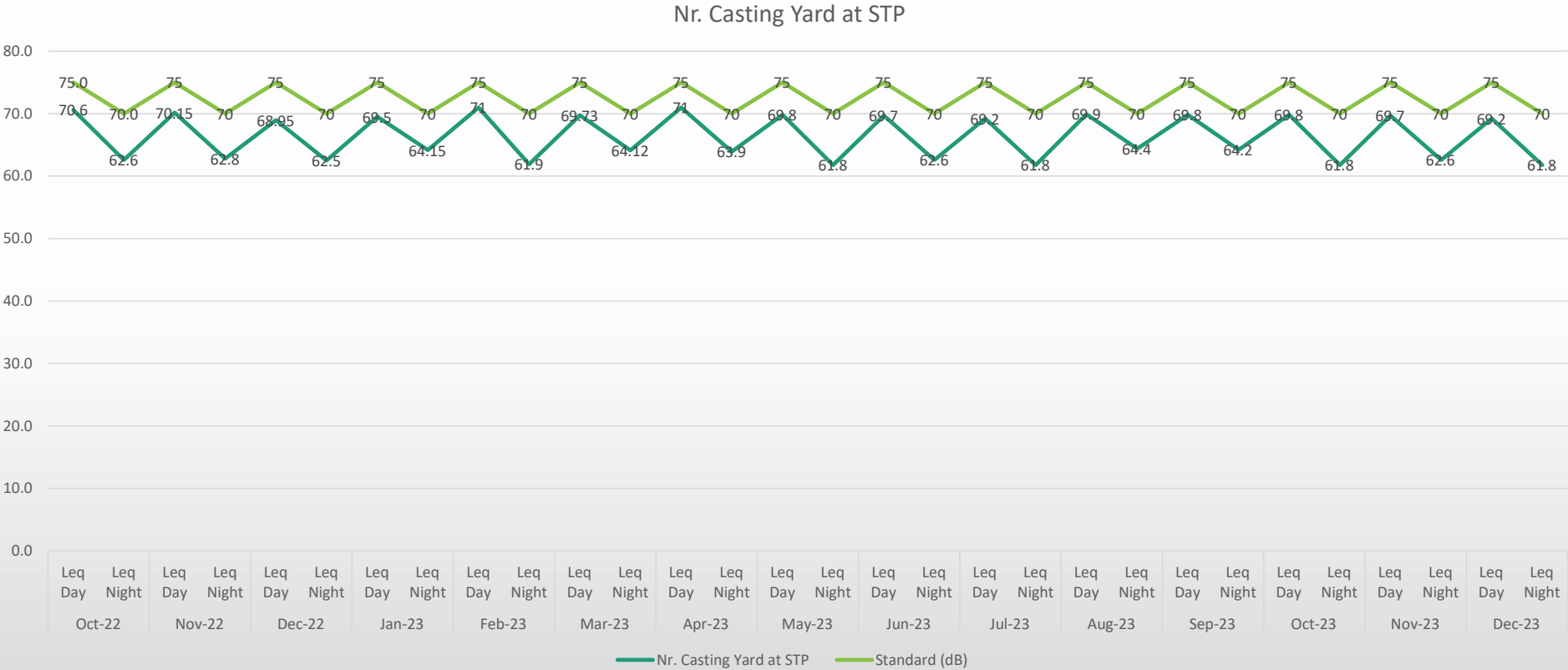
Ambient Noise Trend Analysis

Ambient Noise Quality Trend Analysis for Batching Plant at STP

Batching Plant at STP



Ambient Noise Quality Trend Analysis for Casting Yard at STP

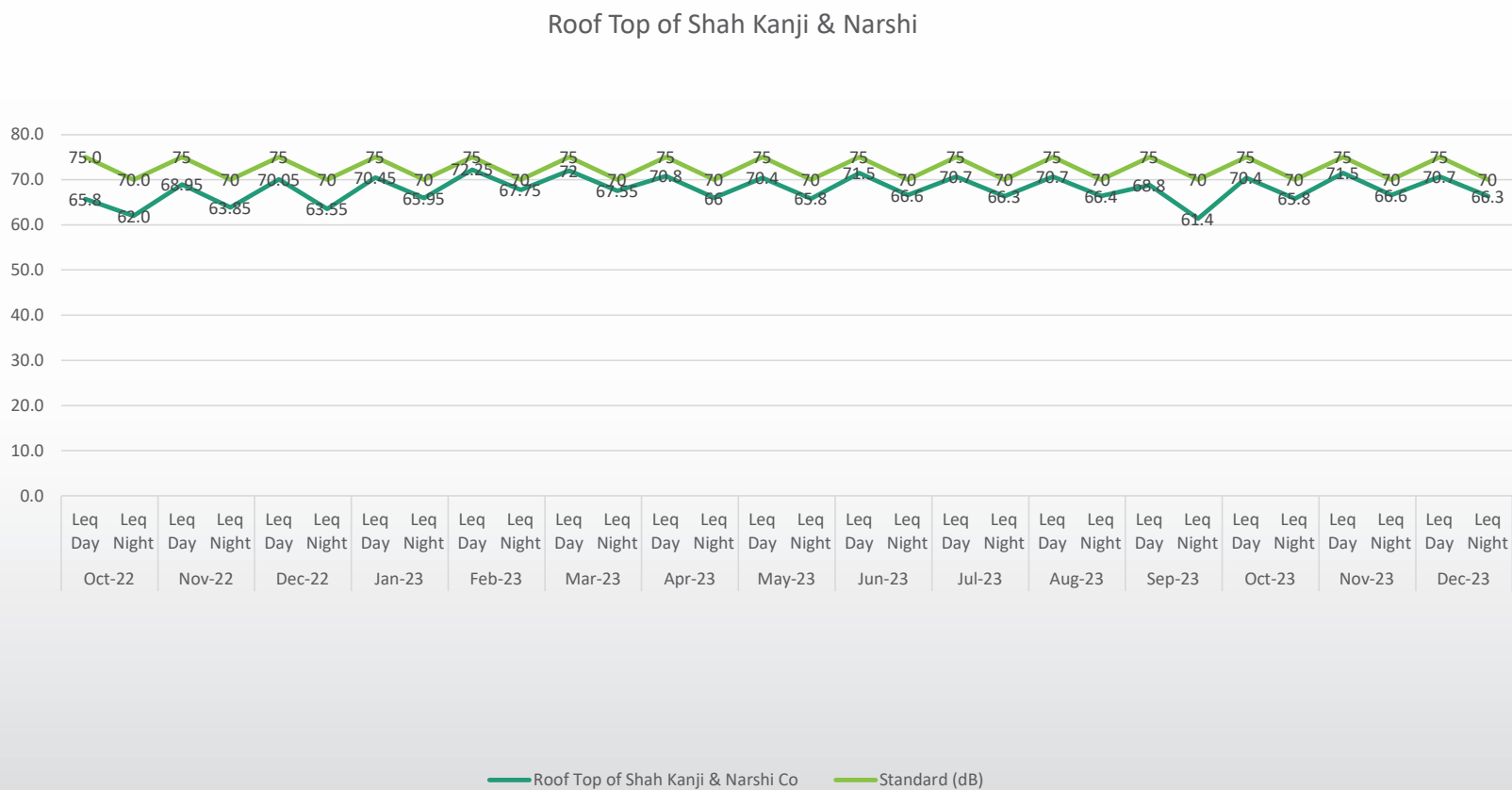


Ambient Noise Quality Trend Analysis for Kerosene Jetty

Nr. Portable Cabin at Kerosene Jetty



Ambient Noise Quality Trend Analysis for Shah Kanji & Narshi Co.

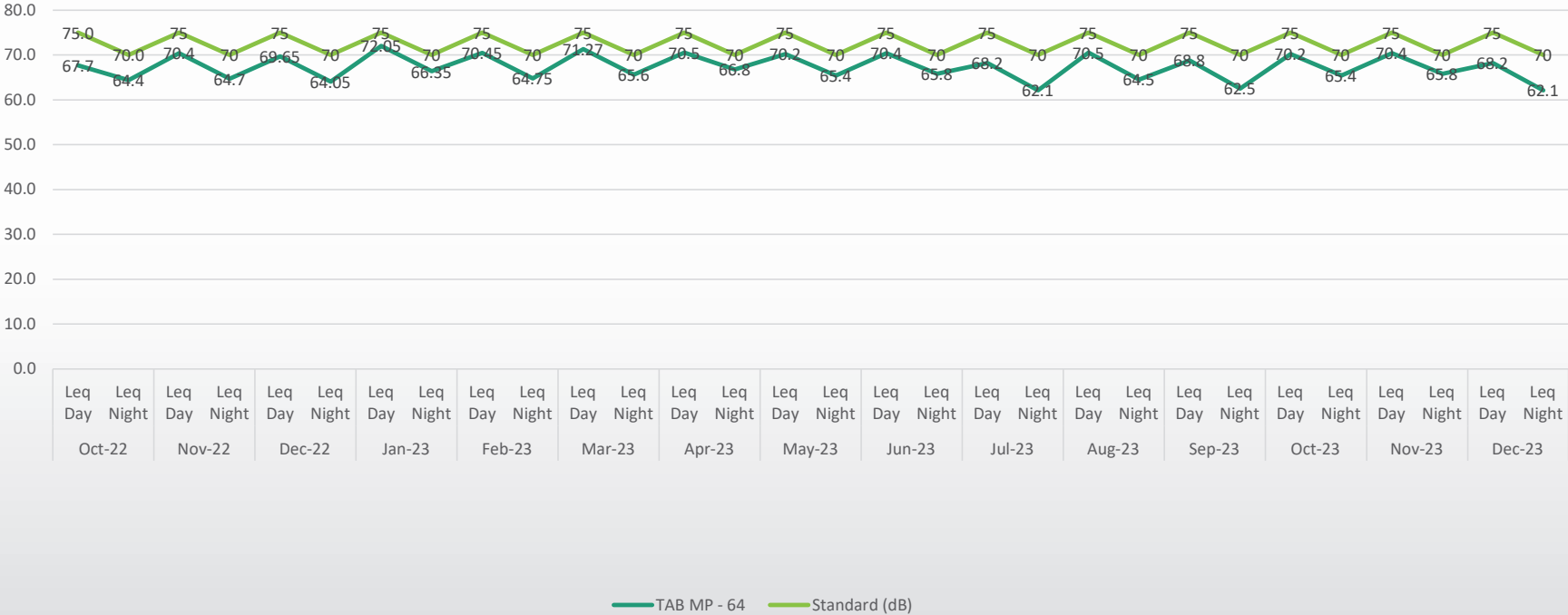


Ambient Noise Quality Trend Analysis for TAB MP-7



Ambient Noise Quality Trend Analysis for TAB MP-64

TAB MP - 64

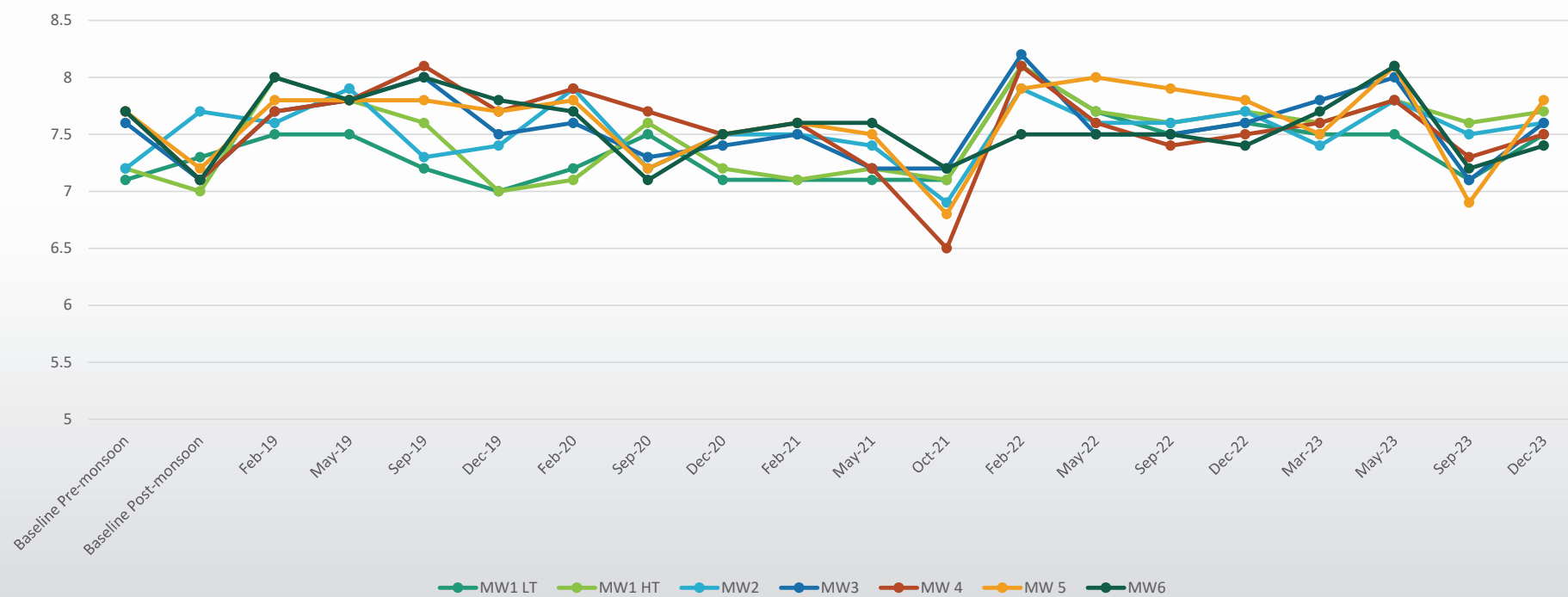


Water Quality Trend Analysis

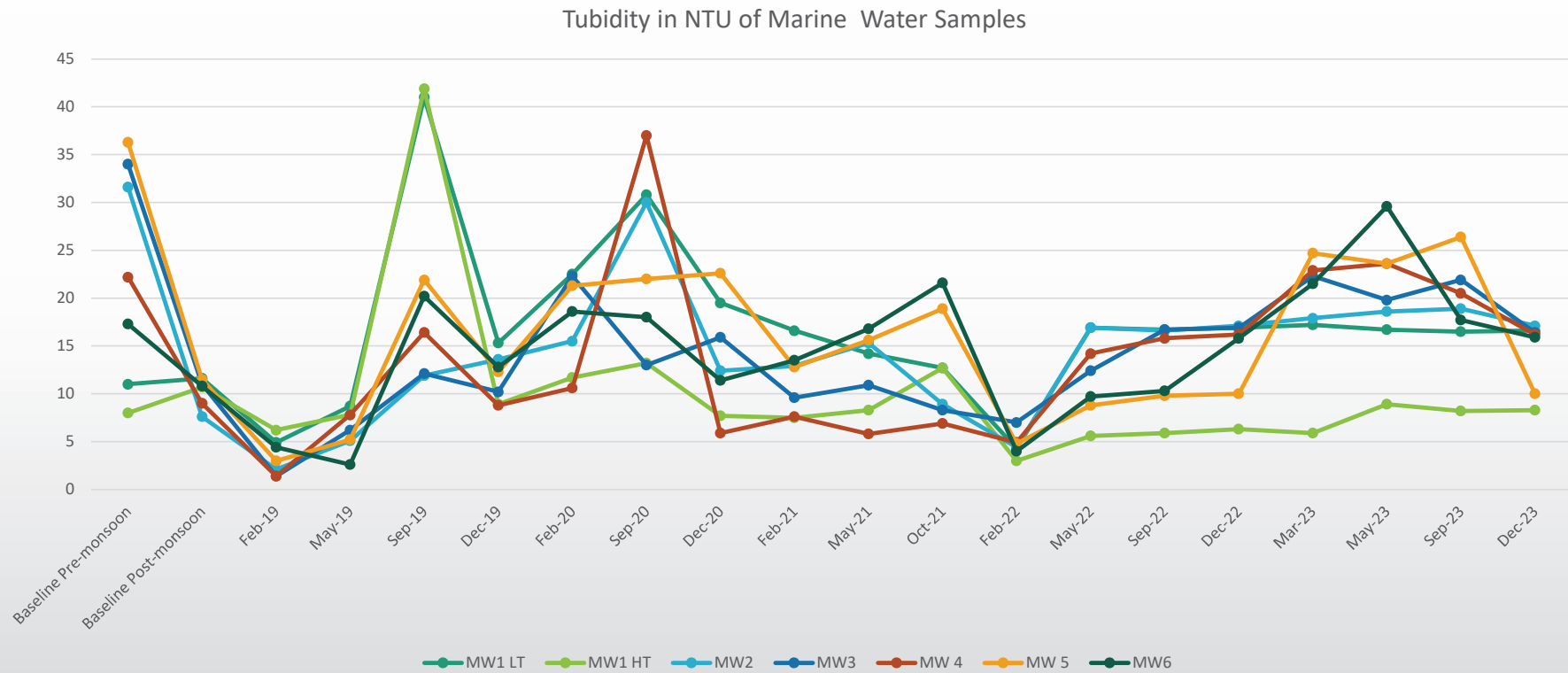
Water Quality Trend Analysis for pH

Standards for pH – 6.5 to 9
Note: Water Quality Monitoring is not conducted in Monsoon Season

pH value in Marine water samples



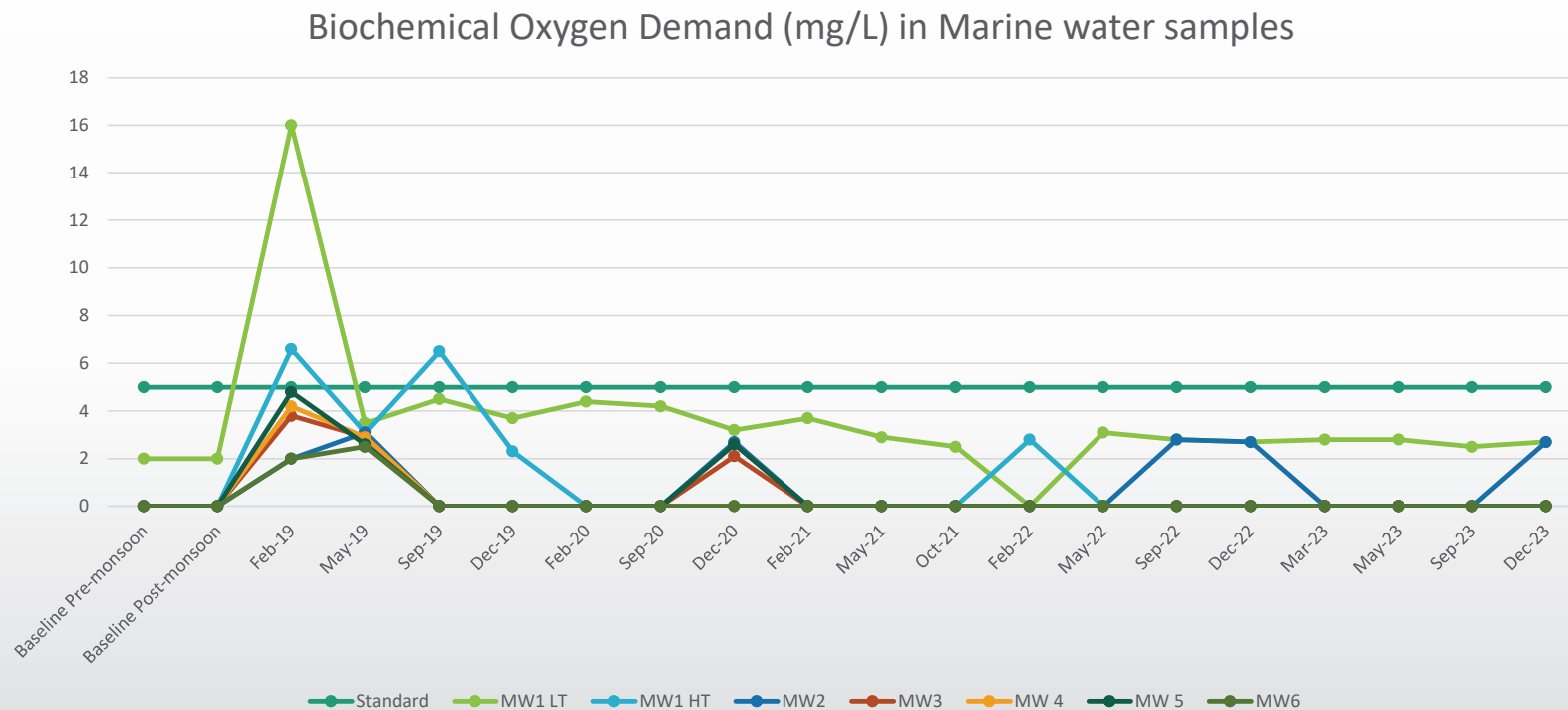
Water Quality Trend Analysis for Turbidity



Note: Water Quality Monitoring is not conducted in Monsoon Season

Water Quality Trend Analysis for BOD

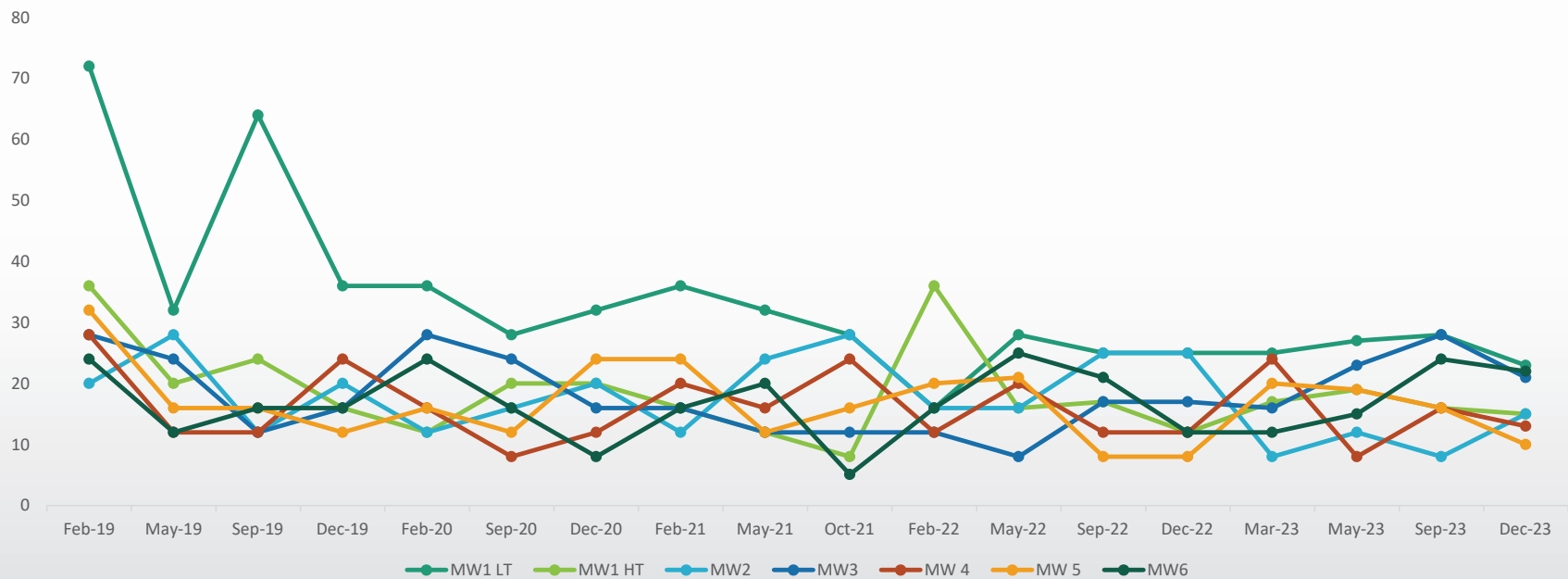
Standards for BOD-5.0 mg/l



Note: Water Quality Monitoring is not conducted in Monsoon Season
Zero values are BDL

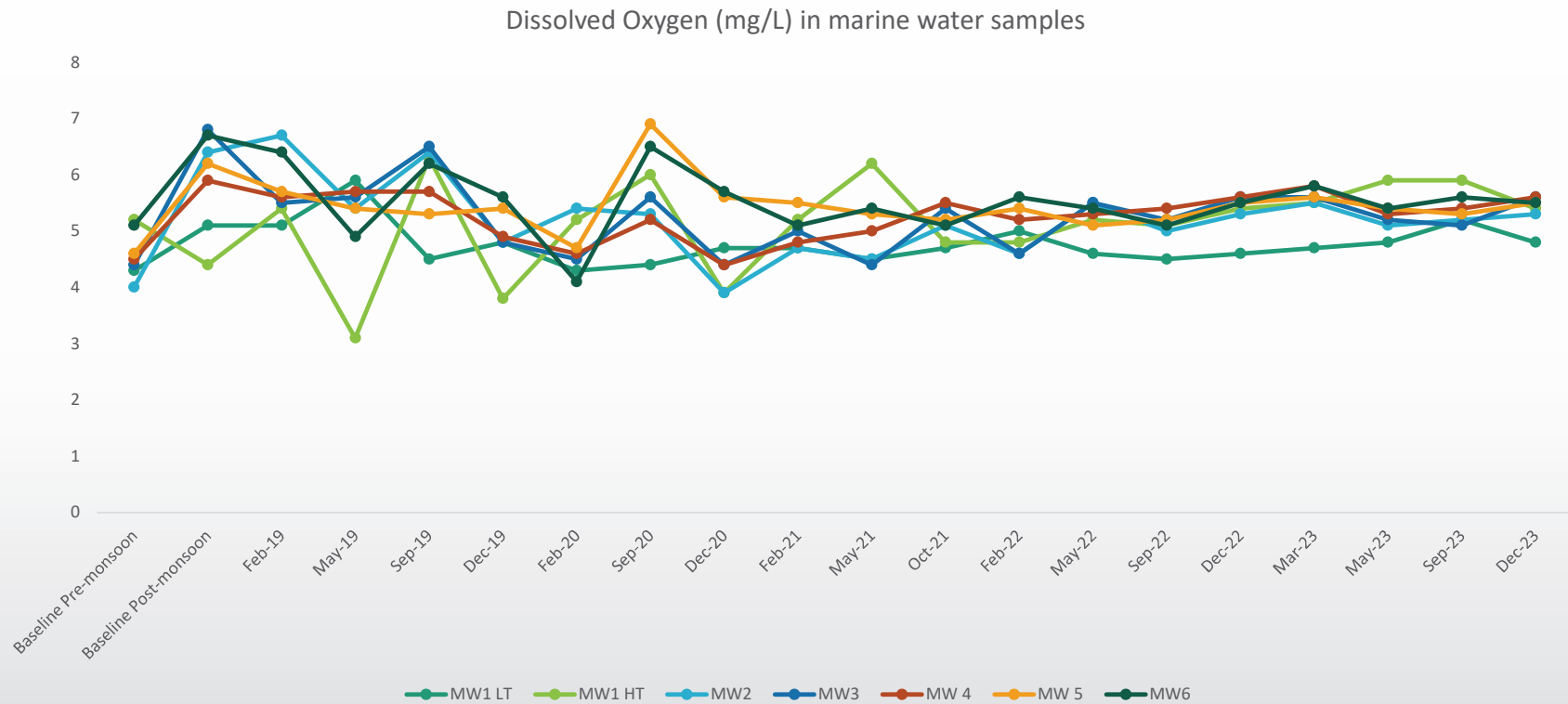
Water Quality Trend Analysis for COD

Chemical Oxygen Demand (mg/L) in Marine water samples



Note: Water Quality Monitoring is not conducted in Monsoon Season

Water Quality Trend Analysis for DO



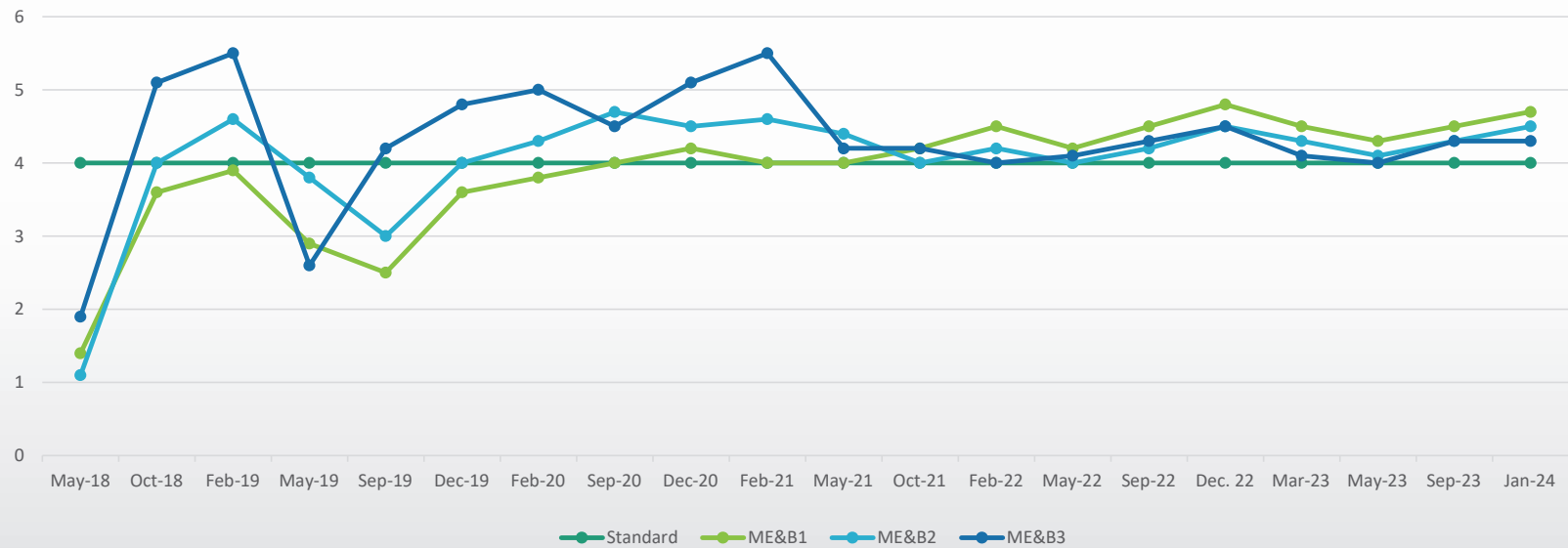
Note: Water Quality Monitoring is not conducted in Monsoon Season

Marine Biology Trend Analysis

Marine Biology Trend Analysis for Chlorophyll-a

Standard : <4mg/m3

Chlorophyll-a at Intertidal and Marine locations MTHL Package 1

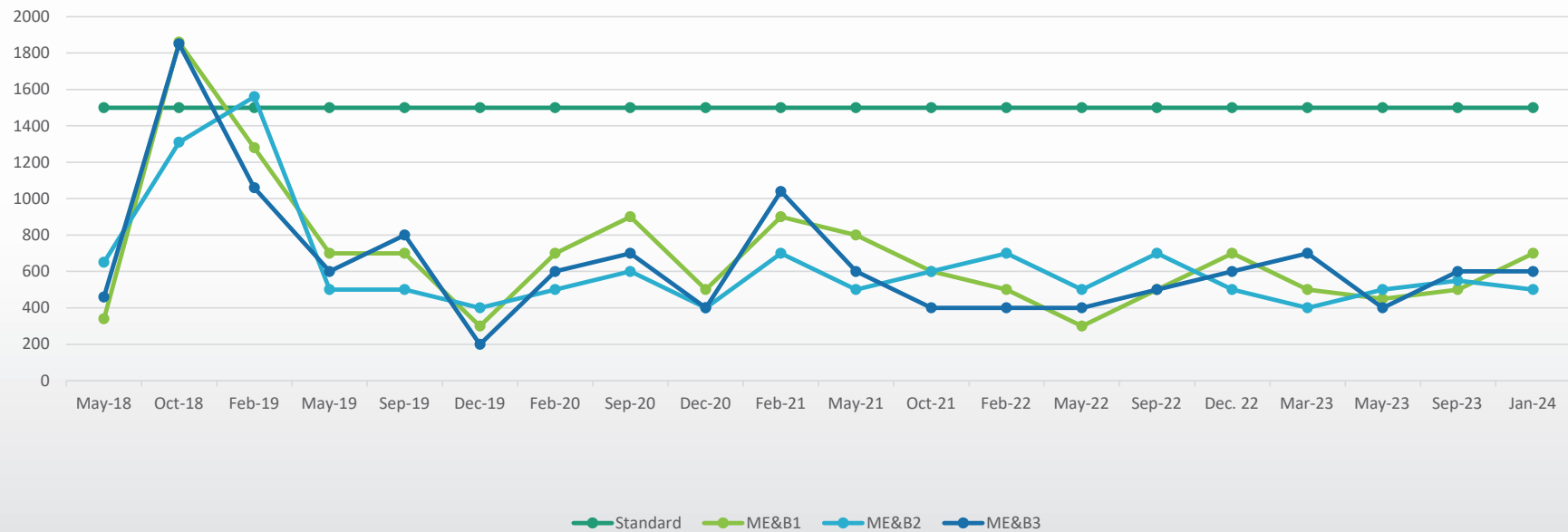


Note: Water Quality Monitoring is not conducted in Monsoon Season

Marine Biology Trend Analysis for Primary Productivity

Standard: <1,500 mgC/m3/day at surface

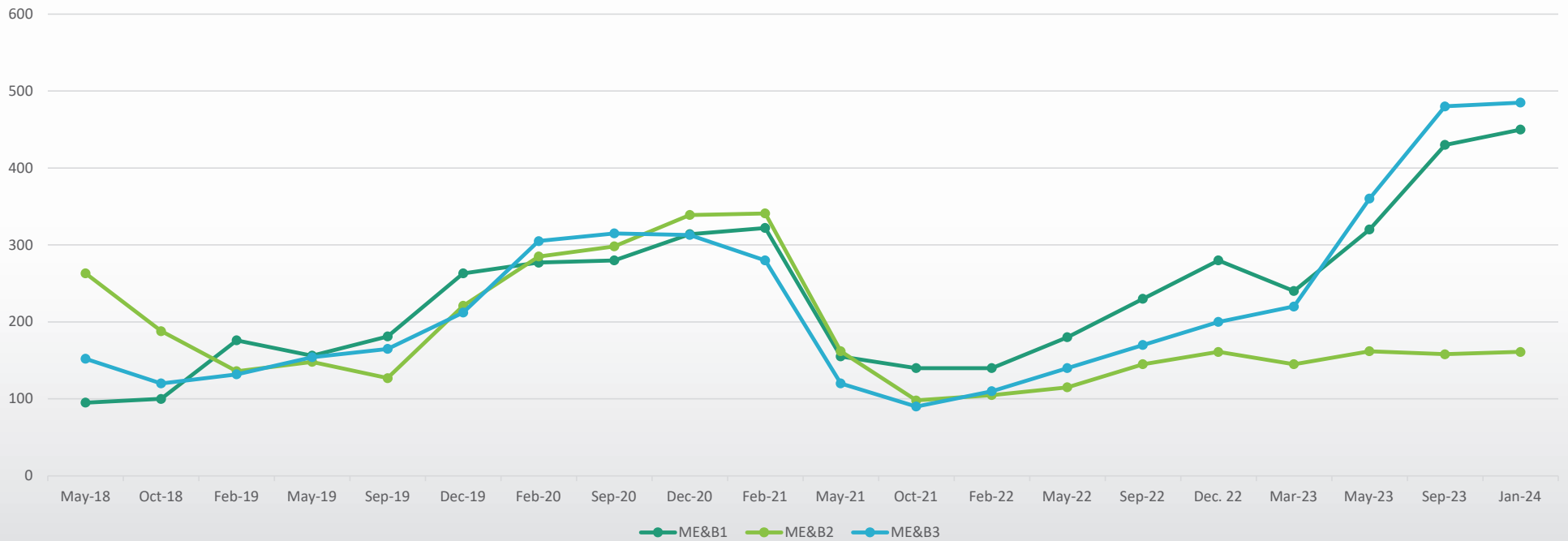
Primary Productivity mgC/m3/d - Net at Intertidal and Marine locations MTHL Package 1



Note: Water Quality Monitoring is not conducted in Monsoon Season

Marine Biology Trend Analysis for Benthic

Benthic/m3/d - at Intertidal and Marine locations MTHL Package 1

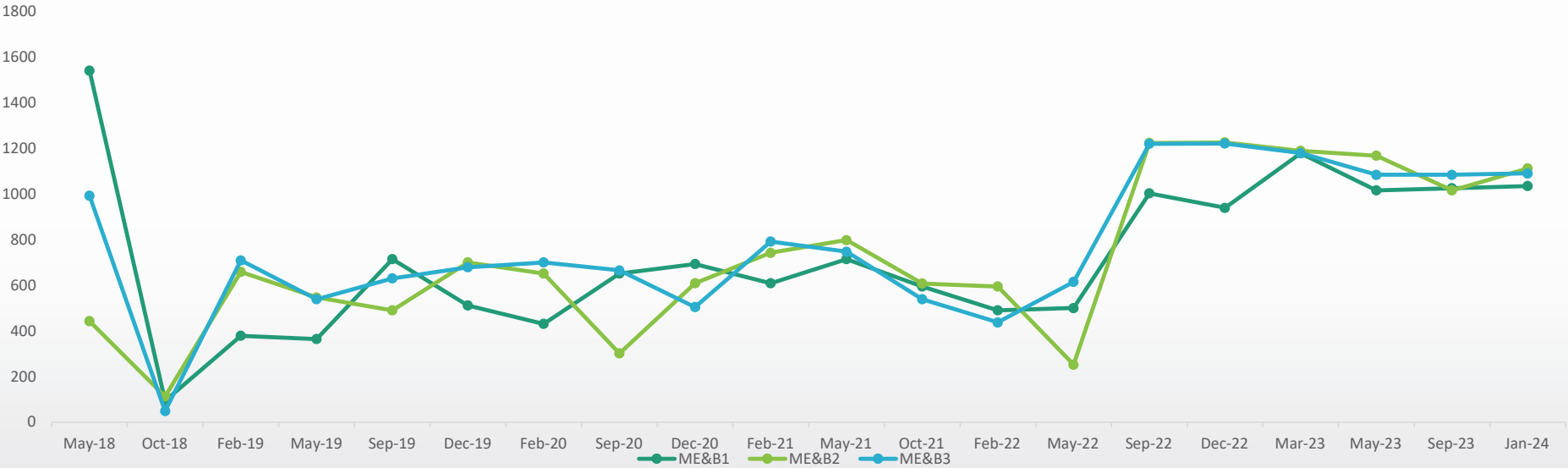


Note: Water Quality Monitoring is not conducted in Monsoon Season

Marine Biology Trend Analysis for Nitrate

Standard: 1.0-500µg/l

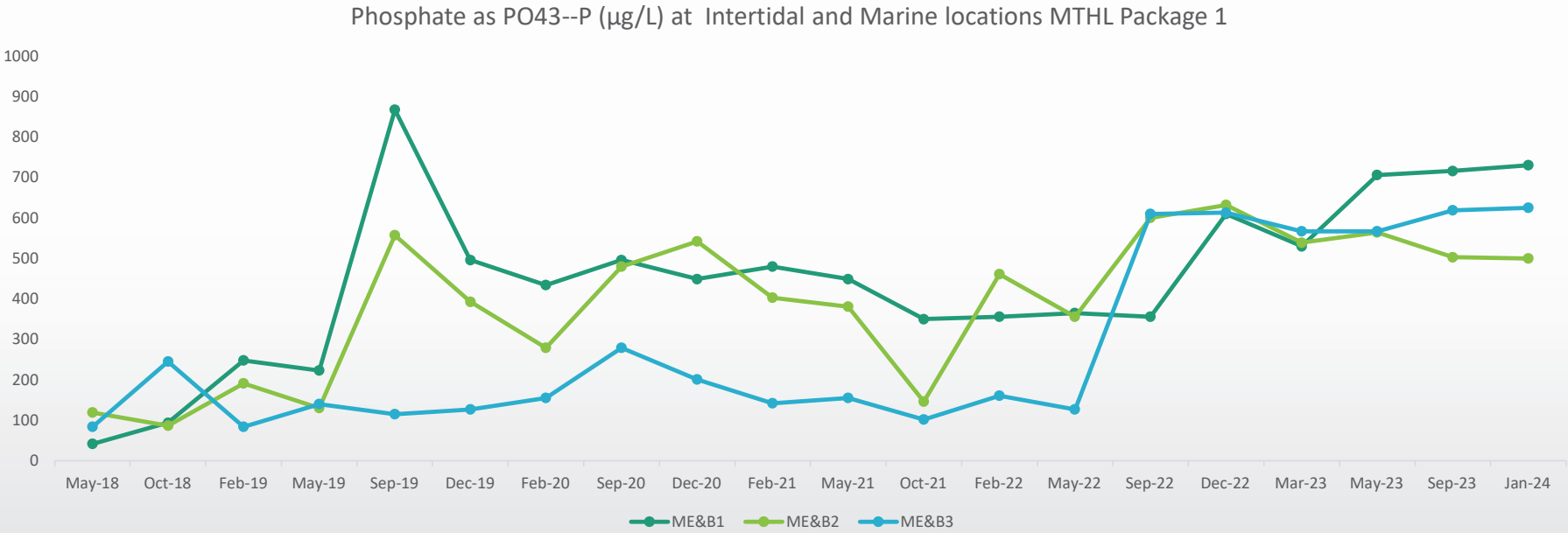
Nitrate as NO3--N (µg/L) at Intertidal and Marine locations MTHL Package 1



Note: Water Quality Monitoring is not conducted in Monsoon Season

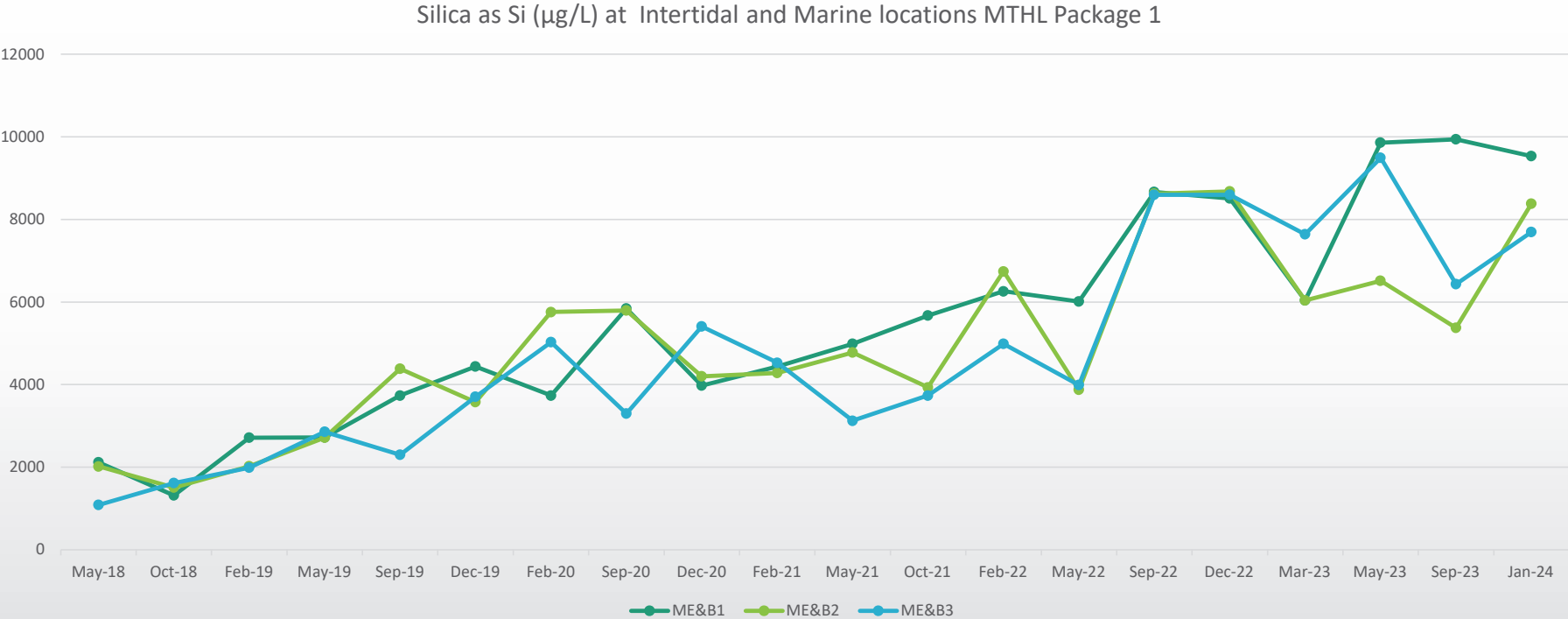
Marine Biology Trend Analysis for Phosphate

Standard: 0.1-90µg/l



Note: Water Quality Monitoring is not conducted in Monsoon Season

Marine Biology Trend Analysis for Silica



Note: Water Quality Monitoring is not conducted in Monsoon Season

Package 2

Environmental Monitoring Trend Analysis

For the period

December 2018 to December 2023

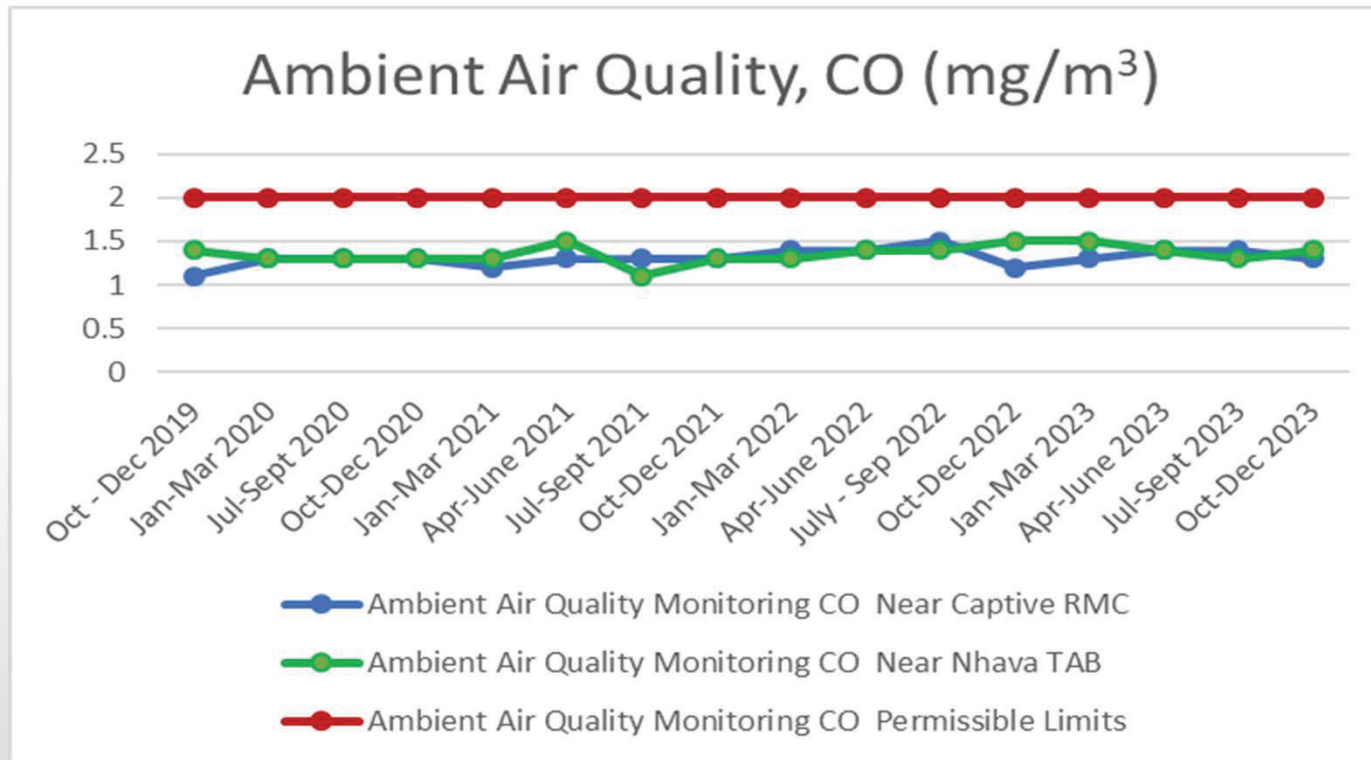
MTHL Package 2



DAEWOO-TPL JV

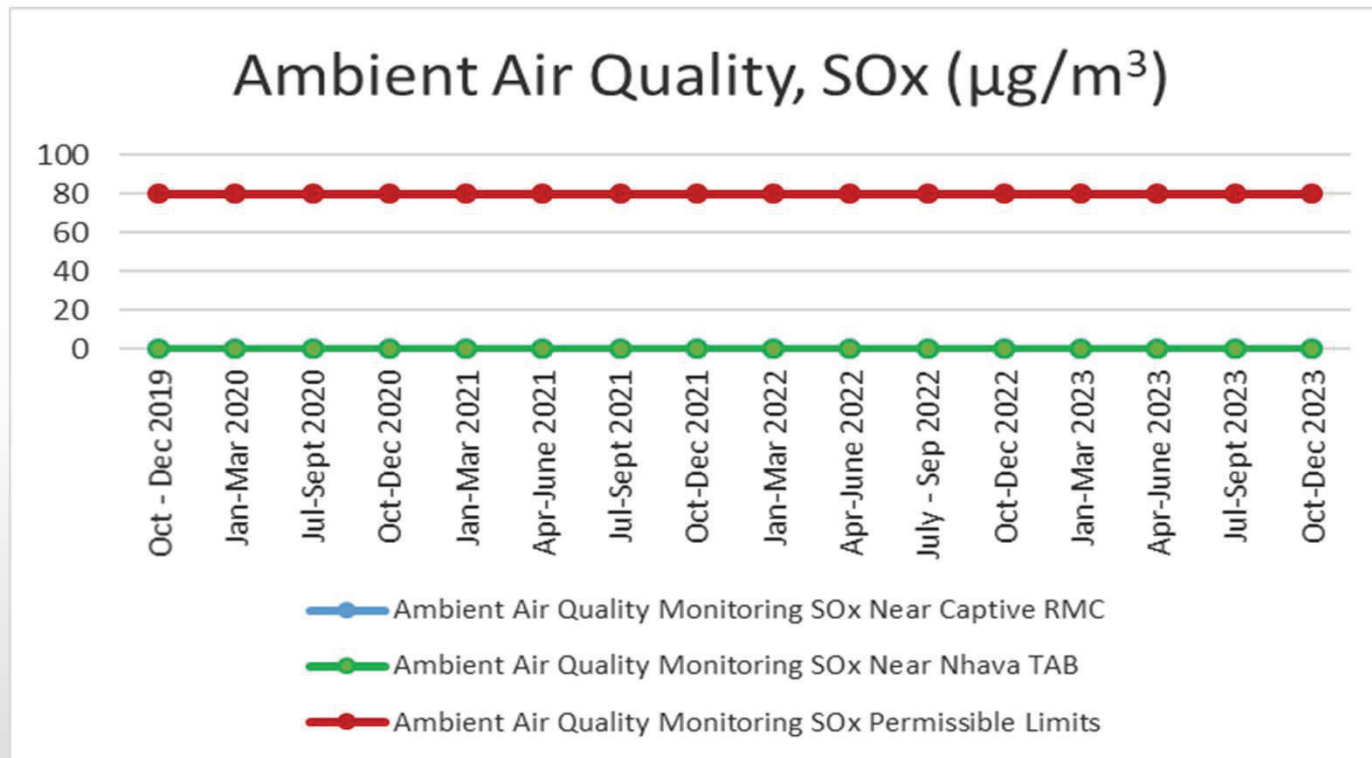


Carbon Monoxide (CO) -



The value of Carbon Monoxide is within the prescribed limits of the Ambient Air Quality Norms set by CPCB.

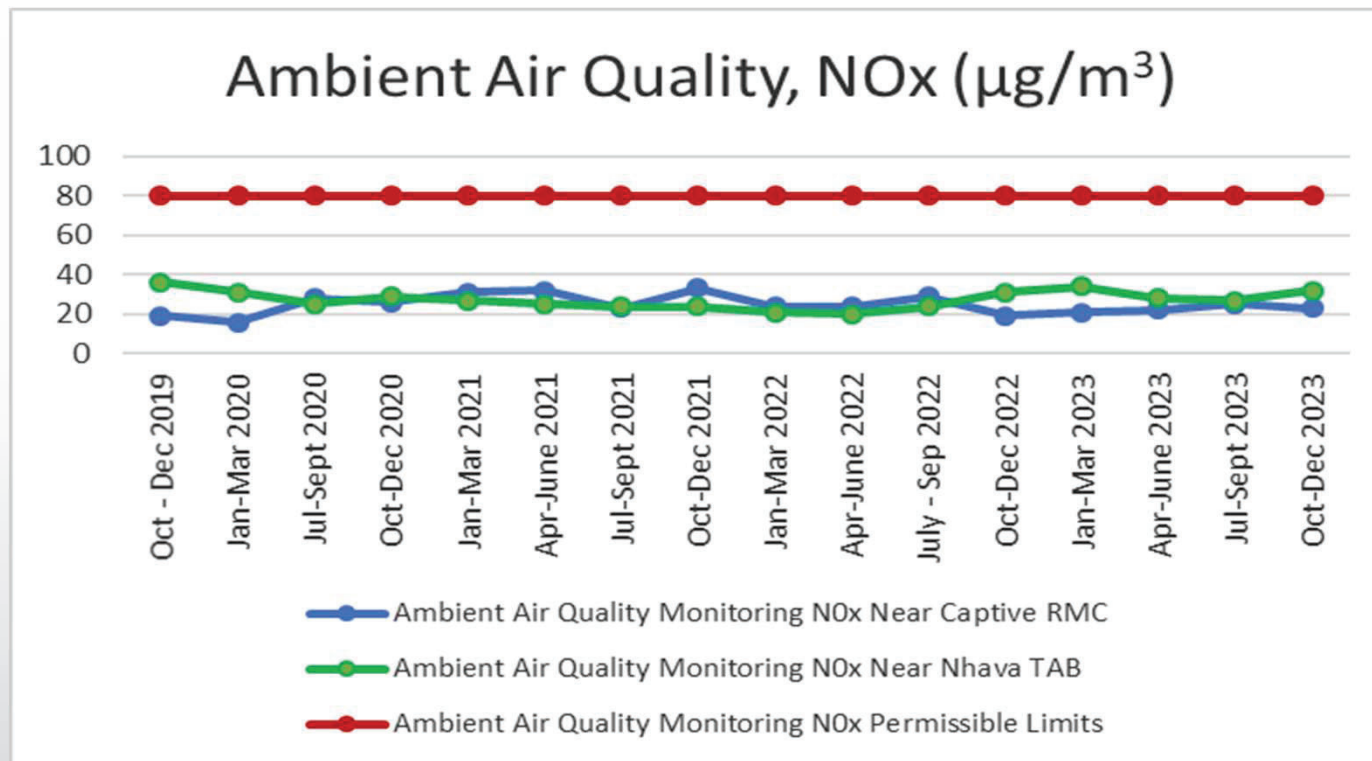
Sulphur Dioxide (SO_x) -



The value of Sulphur Dioxide is within the prescribed limits of the Ambient Air Quality Norms set by CPCB.

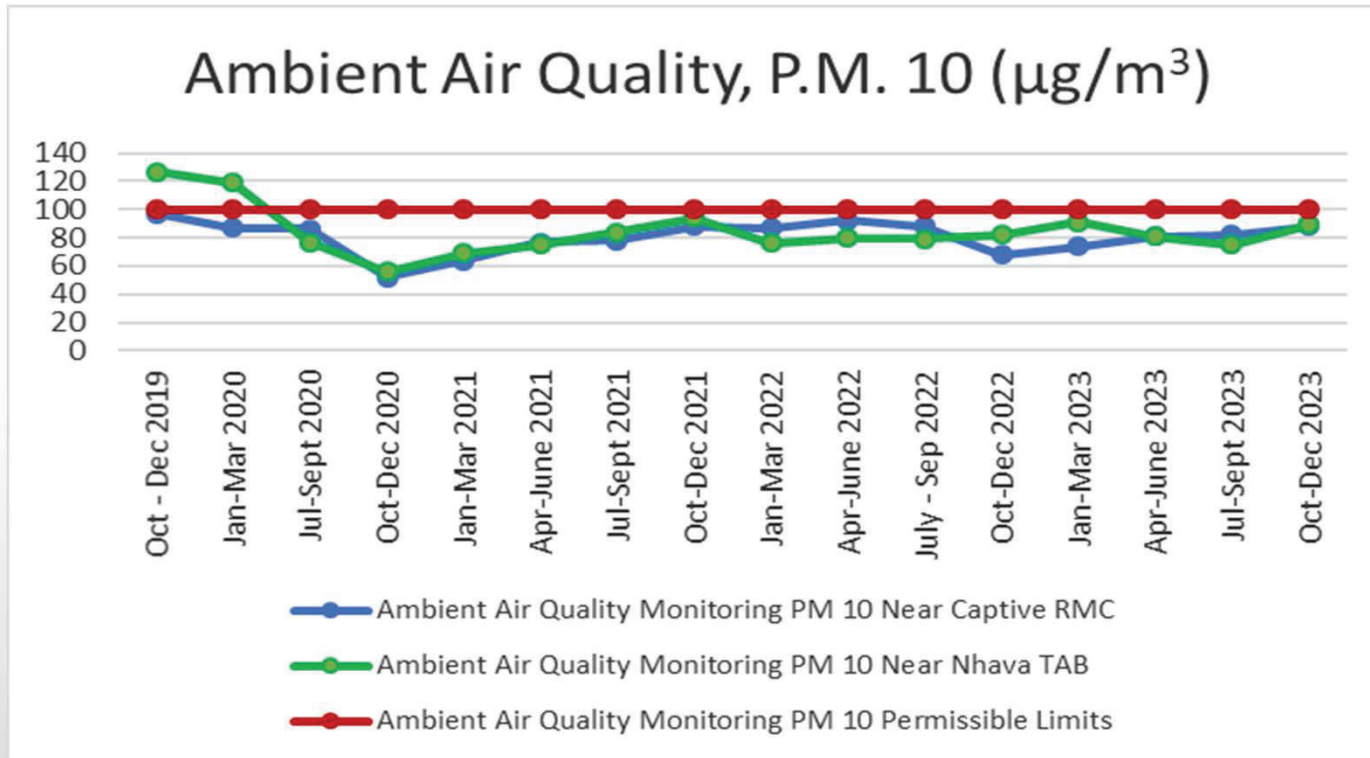
**The Detection level for SO_x is (> 10 µg/m³)*

Nitrogen Dioxide (NO_x) -



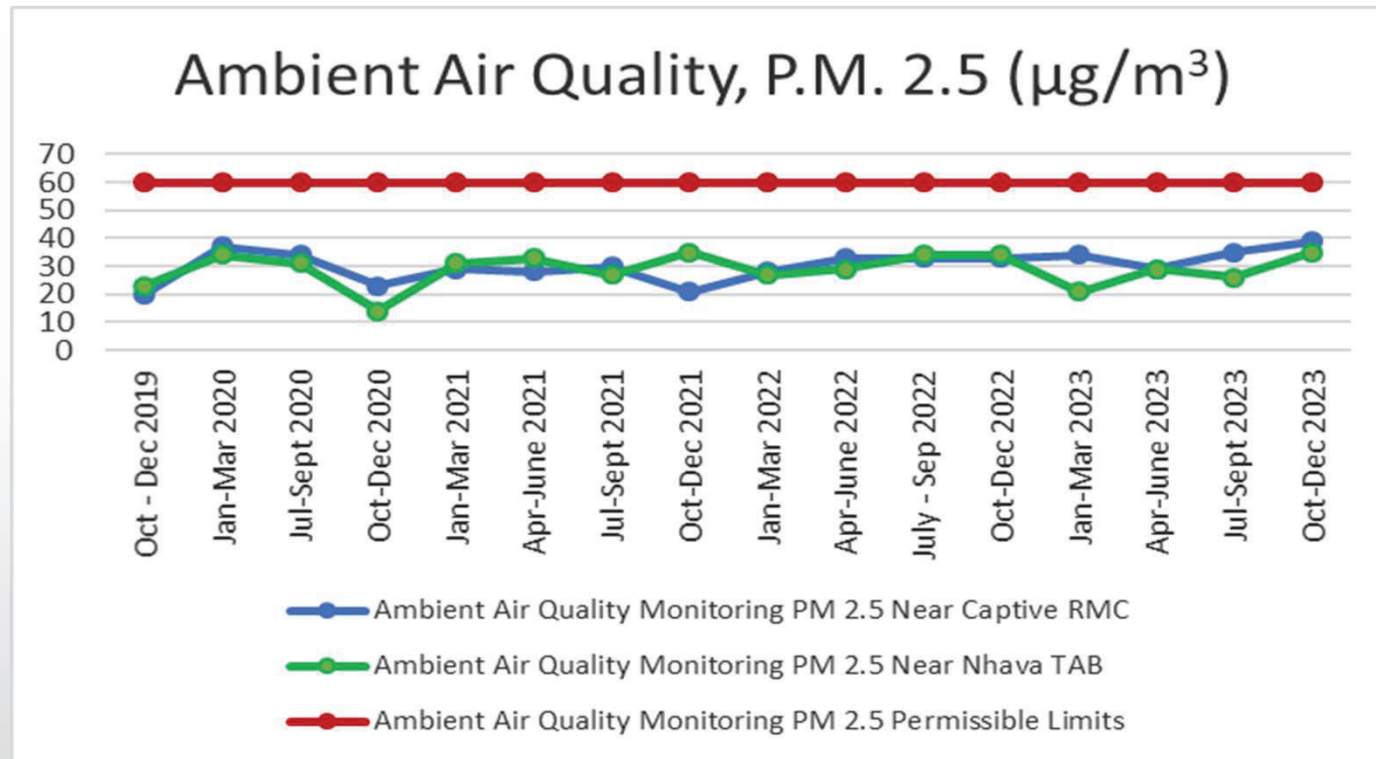
The value of Nitrogen Dioxide is within the prescribed limits of the Ambient Air Quality Norms set by CPCB.

Particulate Matter 10 (PM₁₀) -



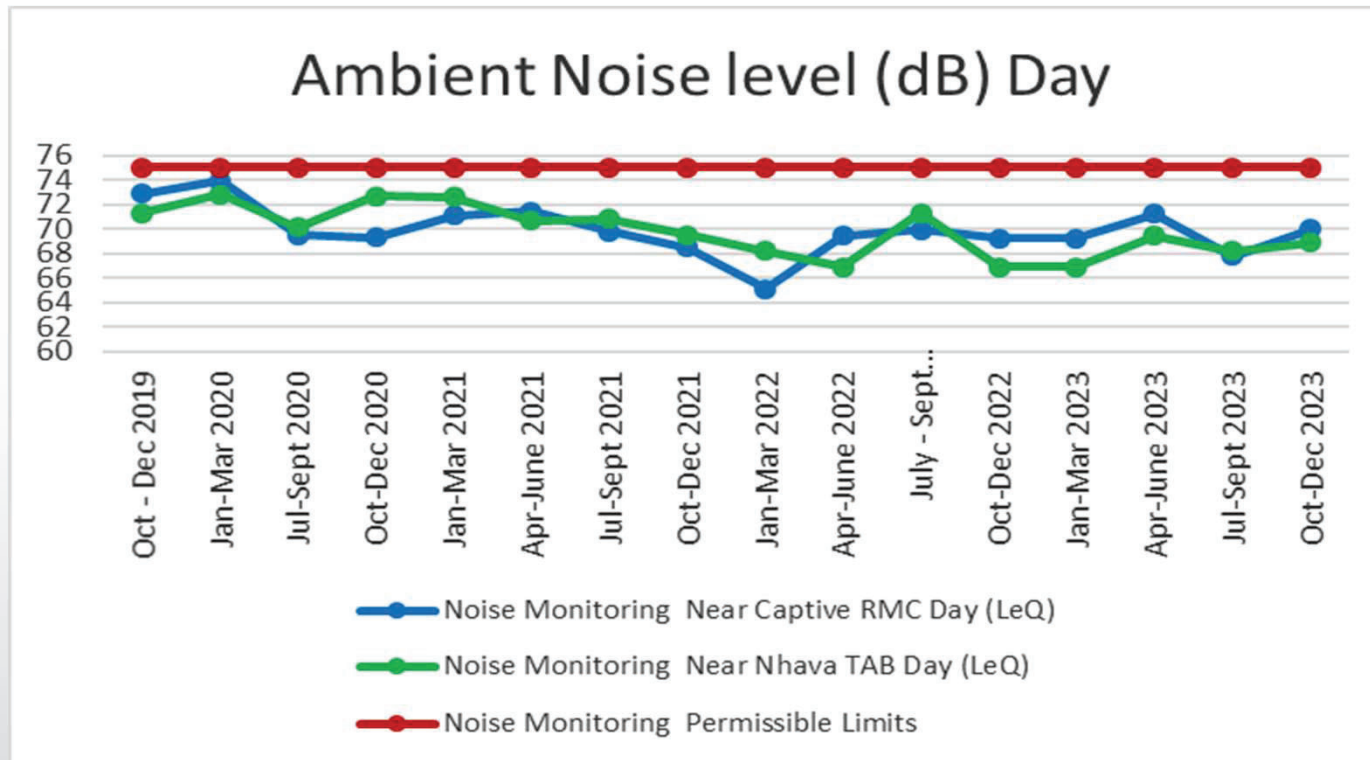
The values of PM 10 were higher than permissible limits due to various construction activities around the Project area during 2018 & 2019. Because of the mitigation measures taken during the construction phase, it has significantly come down.

Particulate Matter 2.5 (PM_{2.5}) -



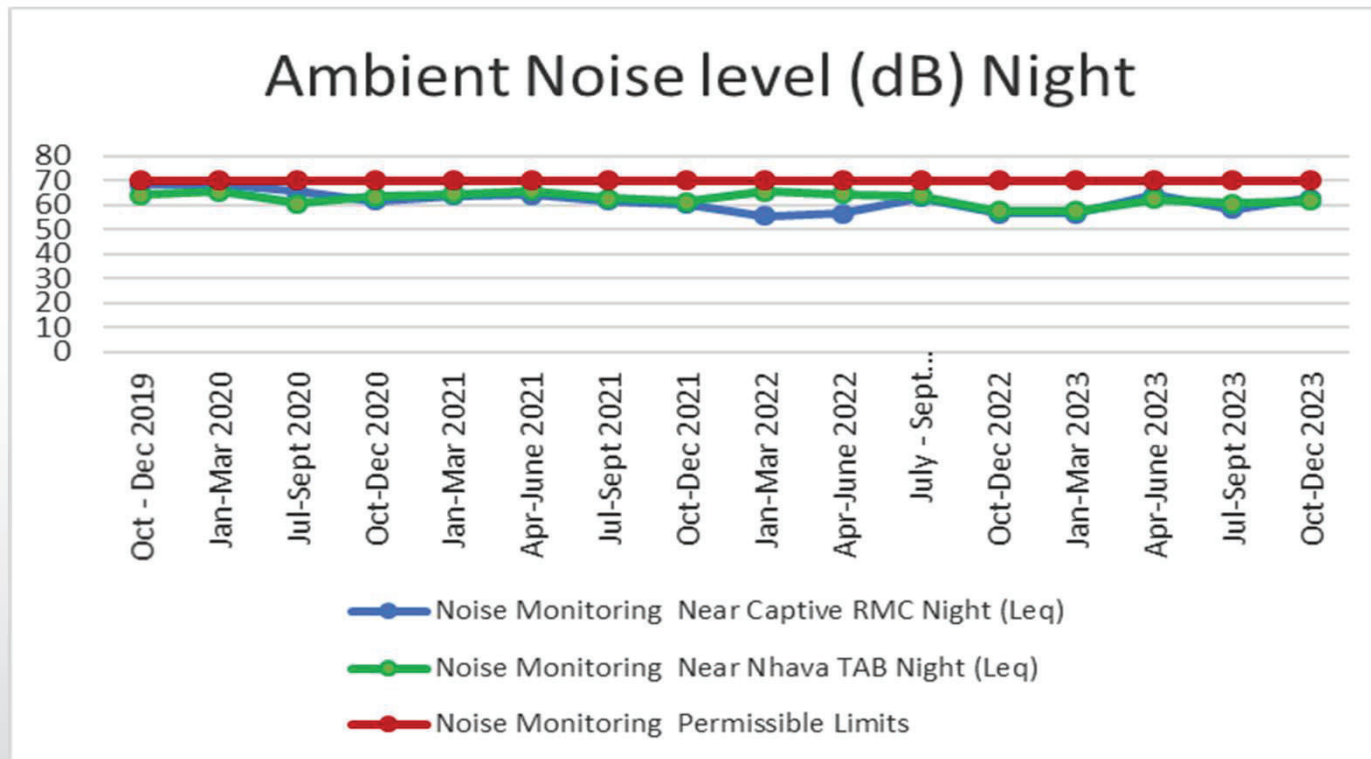
The values of PM 2.5 were higher than permissible limits due to various construction activities around the Project area during 2018 & 2019. Because of the mitigation measures taken during the construction phase, it has significantly come down.

Ambient Noise Level - Day Time (6 a.m. to 10 p.m.) -



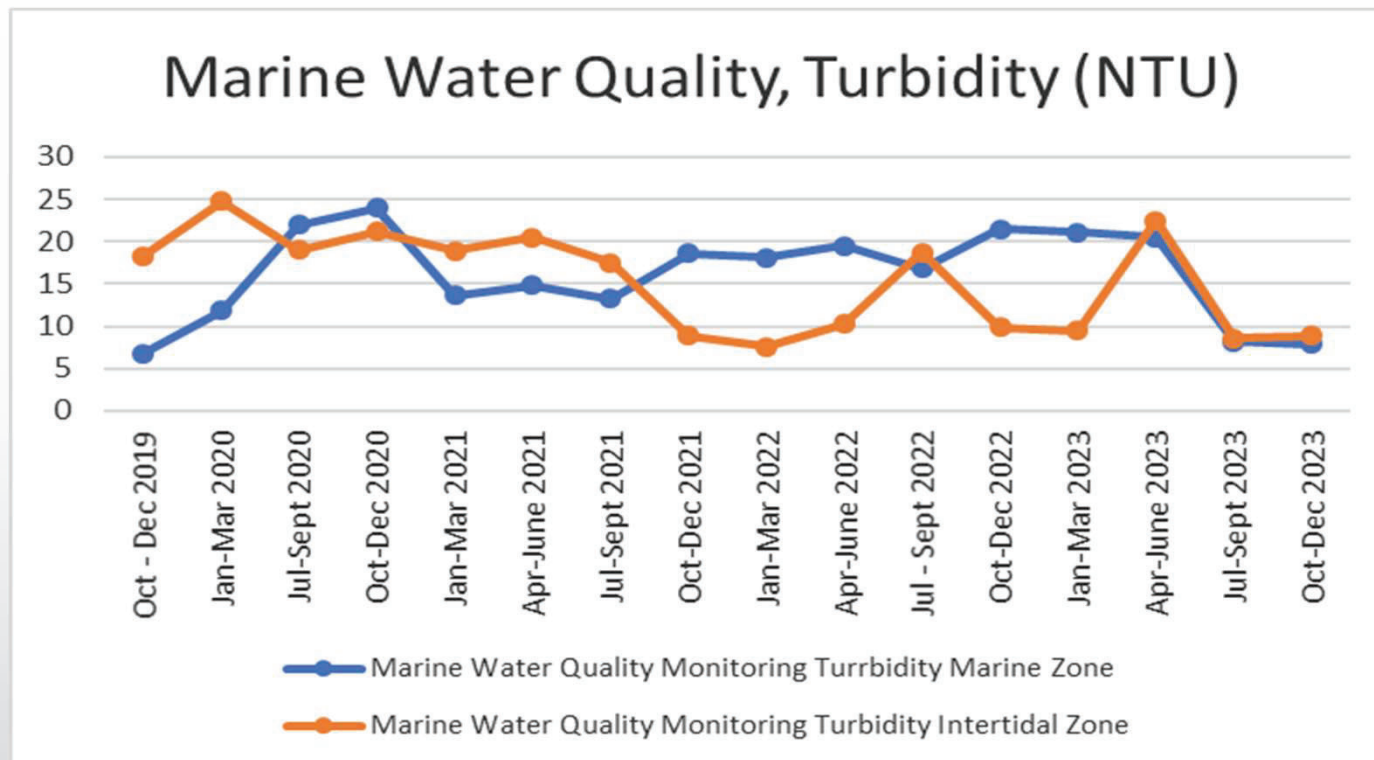
The Ambient Noise level are well within the prescribed limits set by CPCB. Although during the Apr-June 2019 Quarter, due to construction activity in the vicinity of the RMC Plant; the values were higher. Mitigation measures such as usage of Ear Plugs were ensured for workmen working in the vicinity.

Ambient Noise Level - Night Time (10 p.m. to 6 a.m.) -



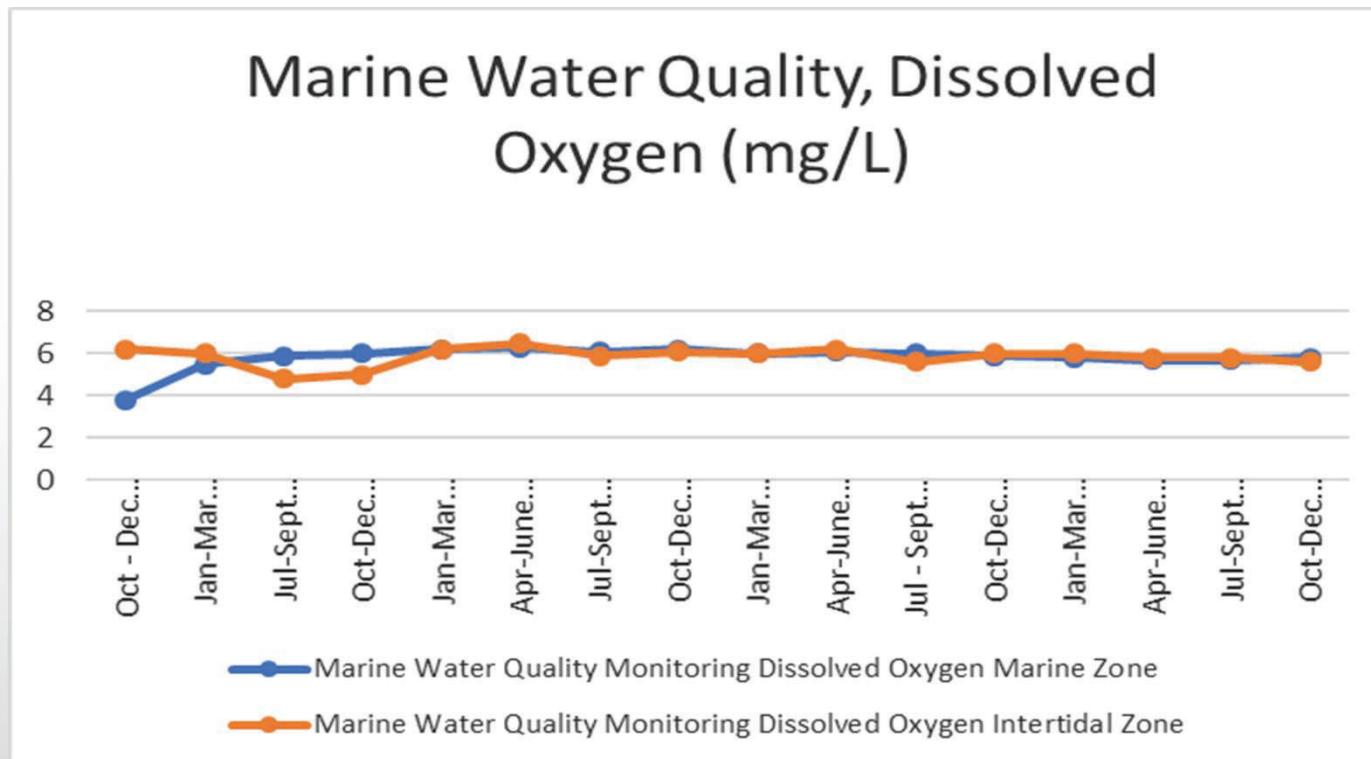
The Ambient Noise level are well within the prescribed limits set by CPCB.

Turbidity -



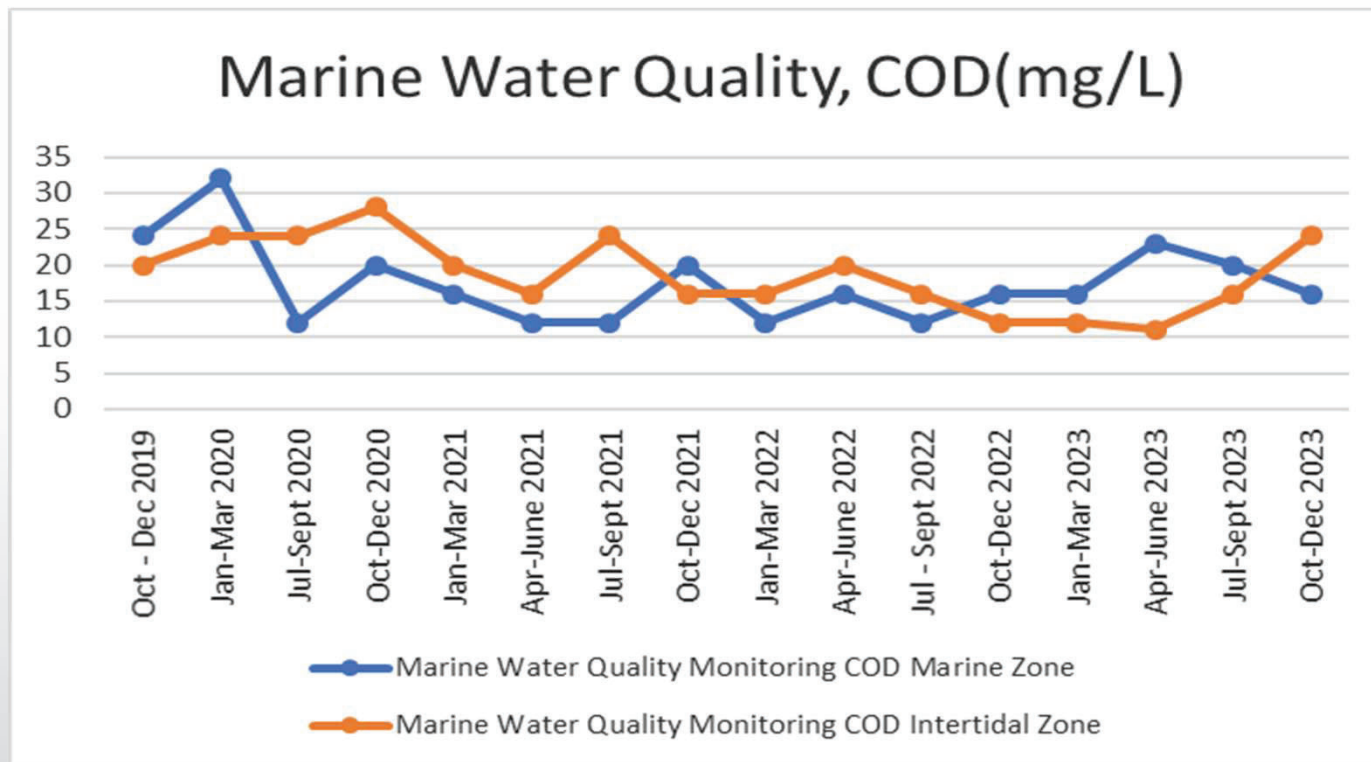
The range of Turbidity during the monitoring is 3-25 NTU, the variation is result of various sewage inflow and intertidal variation.

Dissolved Oxygen (DO) -



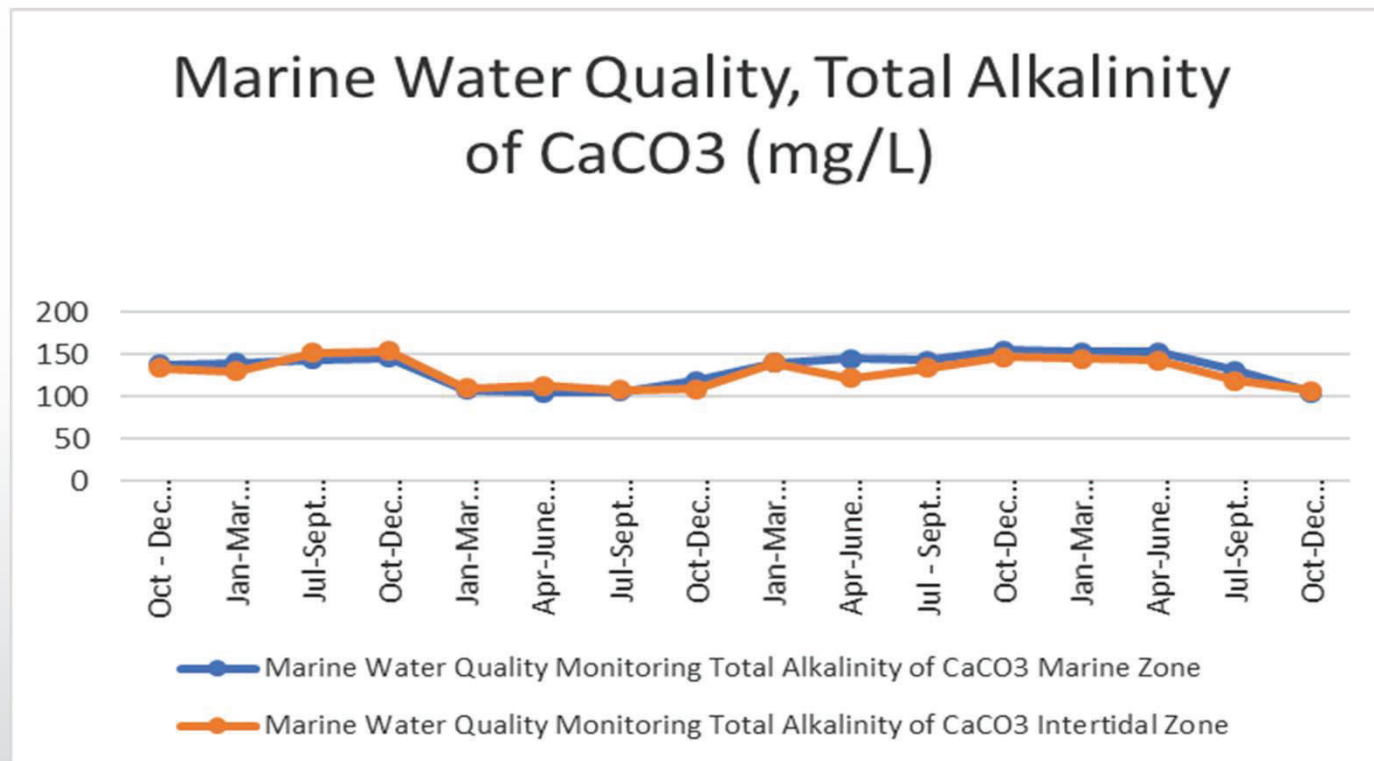
The construction activities have an insignificant effect on the DO of Marine water.

Chemical Oxygen Demand (COD) -



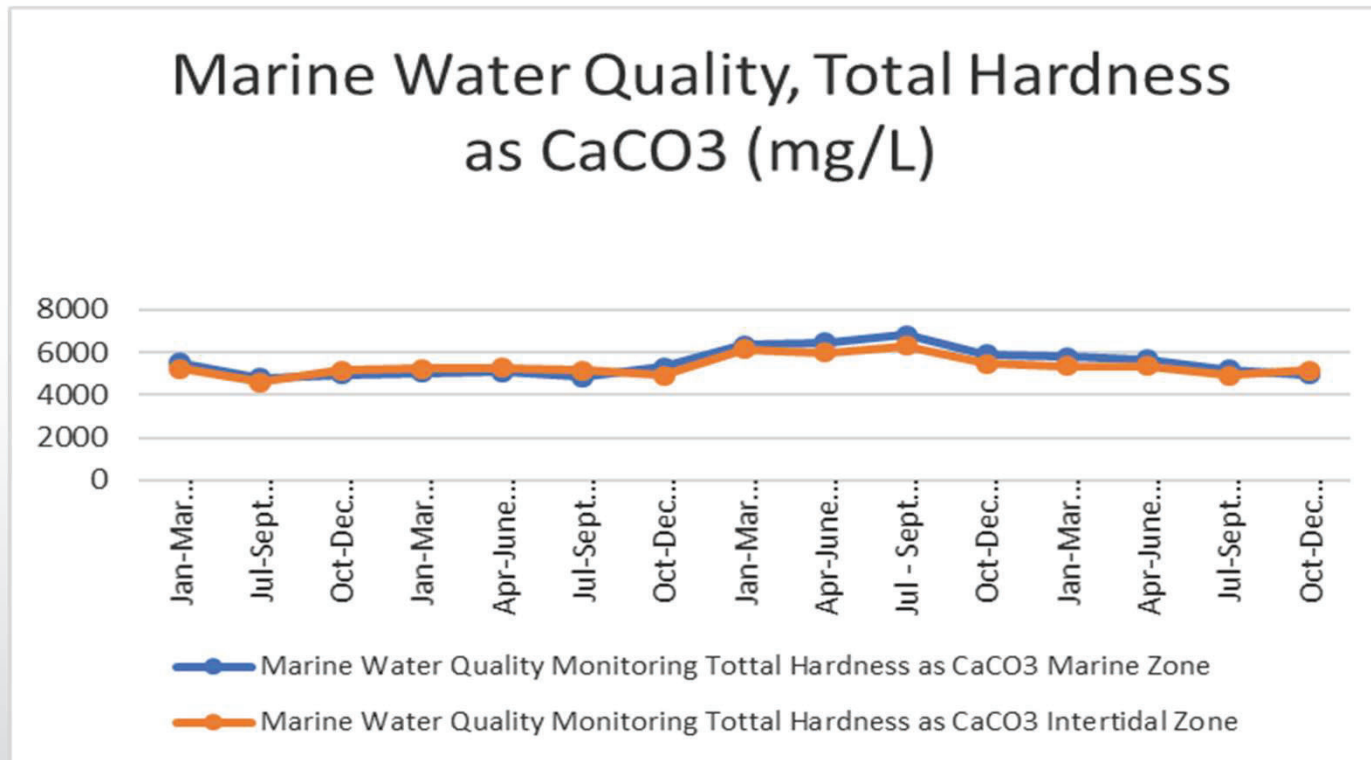
The construction activities have an insignificant effect on the COD of Marine water.

Marine Water Alkalinity -



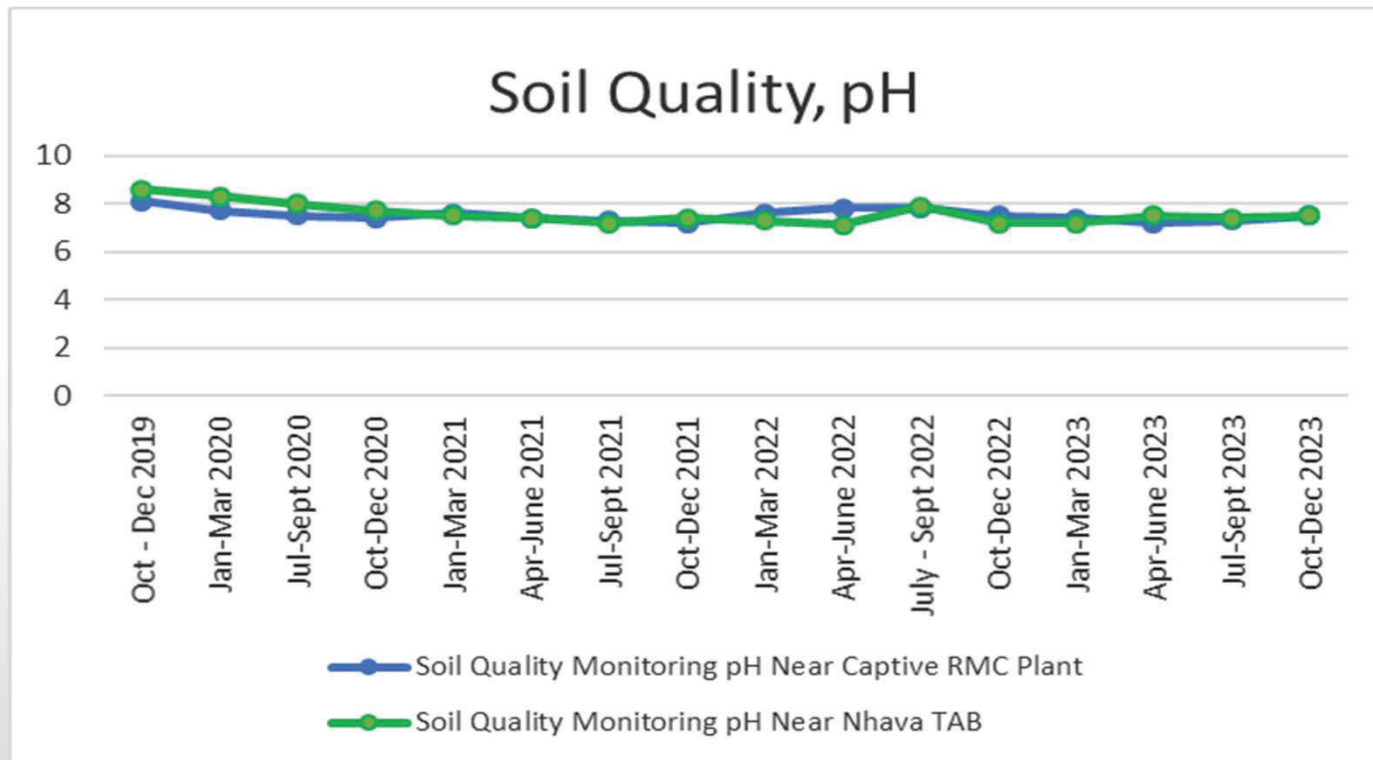
The construction activities have an insignificant effect on the Alkalinity of Marine water.

Marine Water Total Hardness -



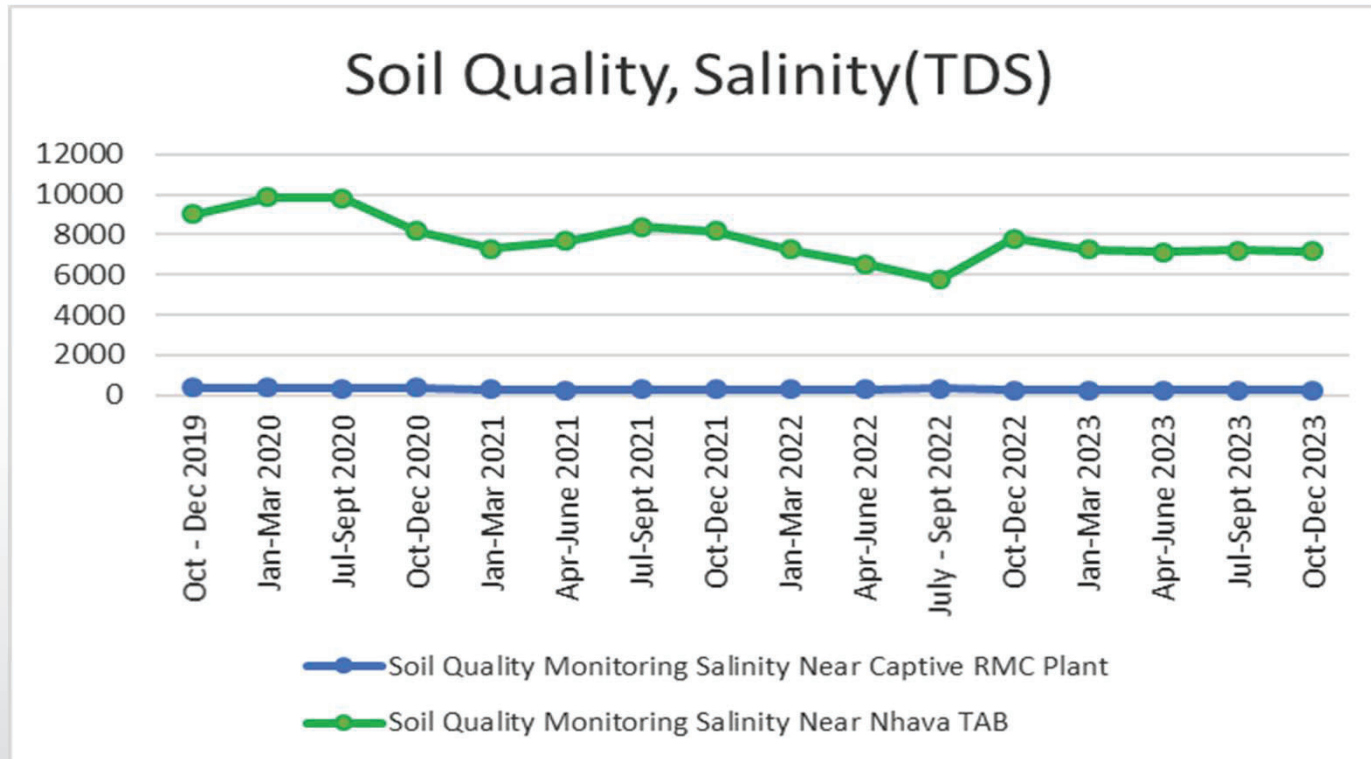
The construction activities have an insignificant effect on the Total Hardness of Marine water.

Potential of Hydrogen (pH) -



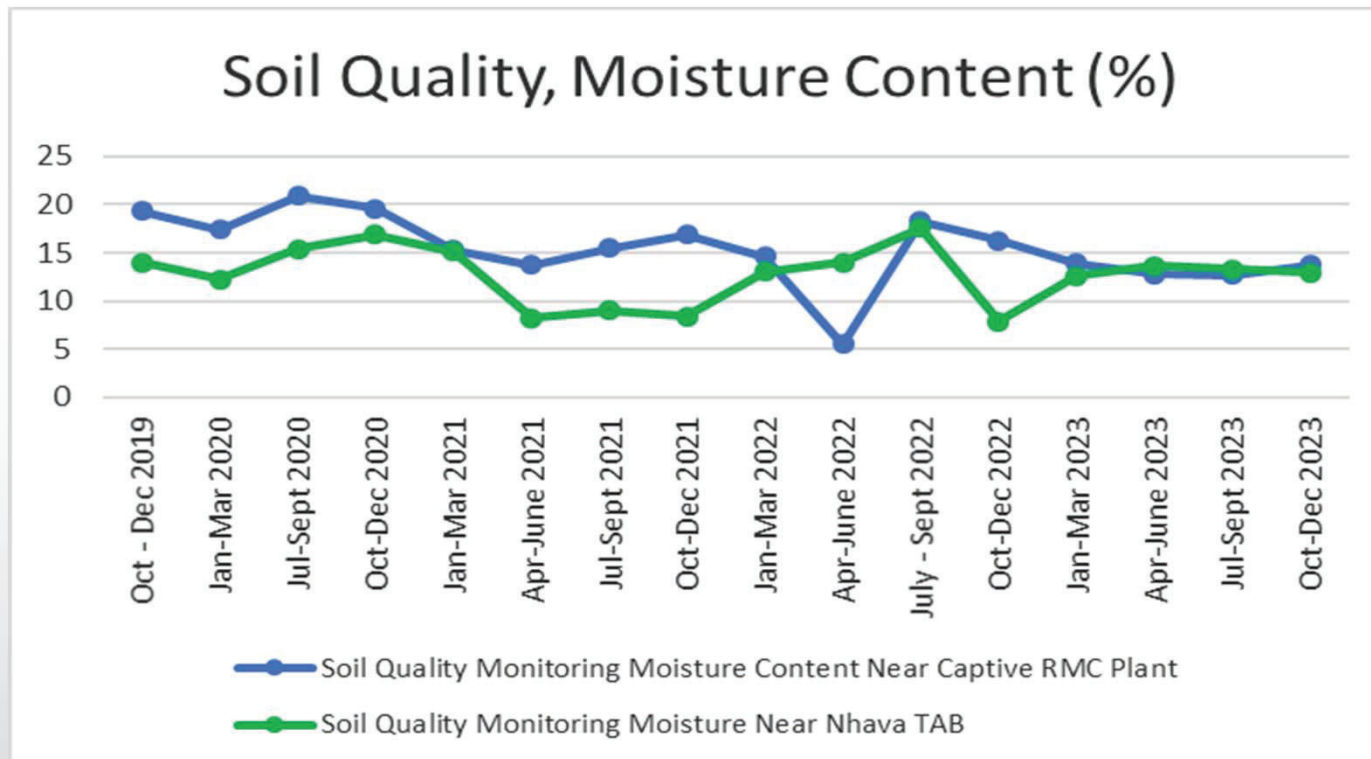
The Soil pH is slightly alkaline throughout the monitoring. It was slightly acidic near Land RMC during Jan-Mar 2019 due to unwanted inflow of sewage in creek water.

Soil Salinity -



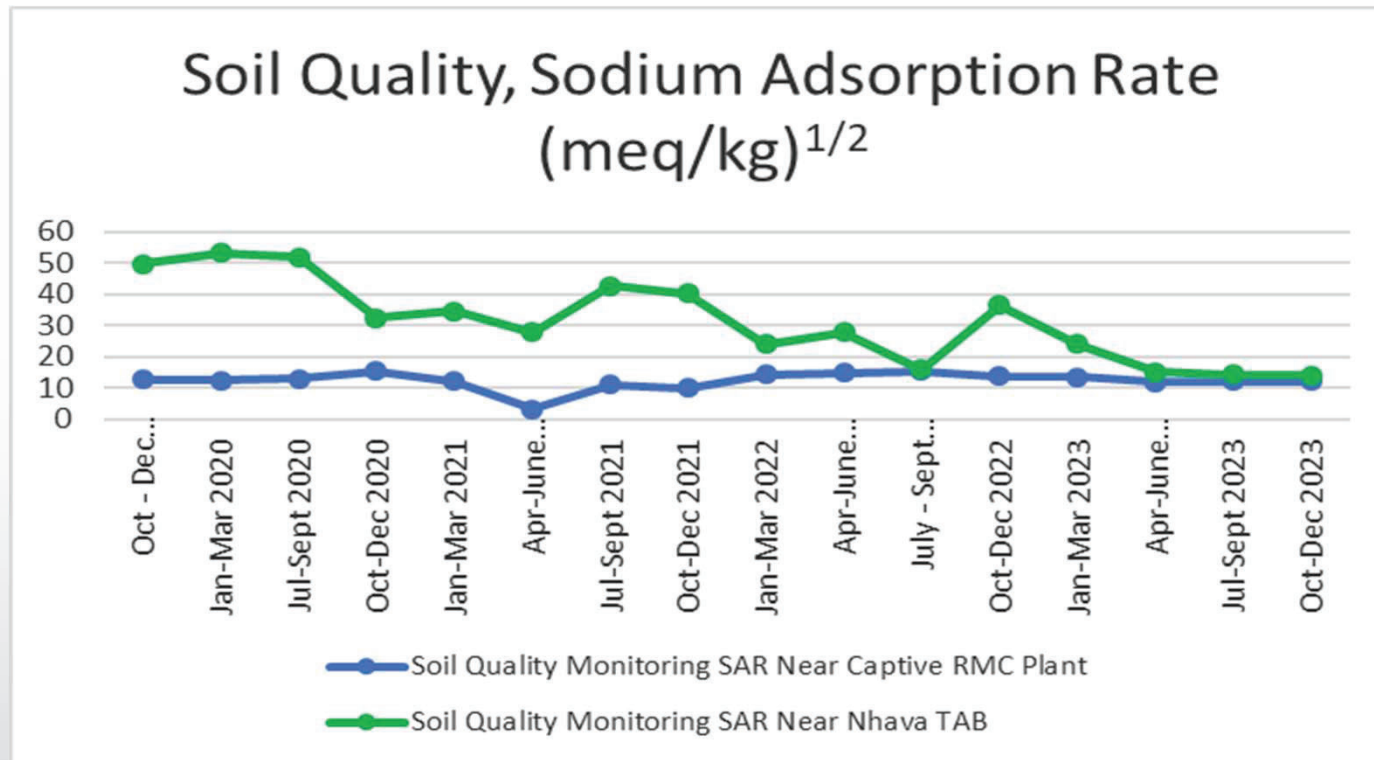
Soil Salinity is a factor of Marine water percolating in the Intertidal zone. The values were significantly higher during 2018-19 and was a result of sample collection during tidal variations.

Soil Moisture Content -



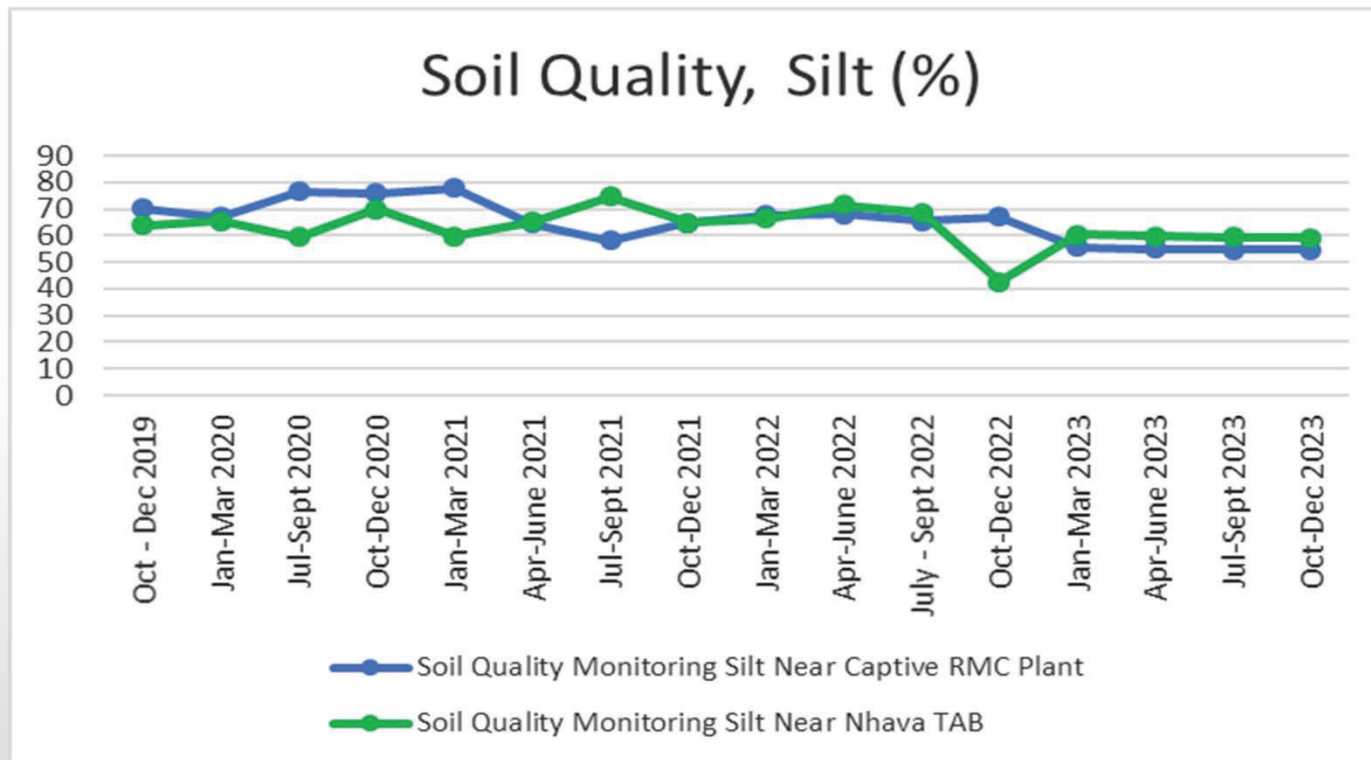
The Moisture content of soil ranges between 12-23% throughout the monitoring period. It showed a variation in 2018 due to some variation in the weather.

Soil Sodium Adsorption Rate -



Sodium Adsorption rate is a factor of Marine water percolating in the Intertidal zone. The values were significantly higher during 2018-19 and was a result of sample collection during tidal variations.

Soil Silt Content -

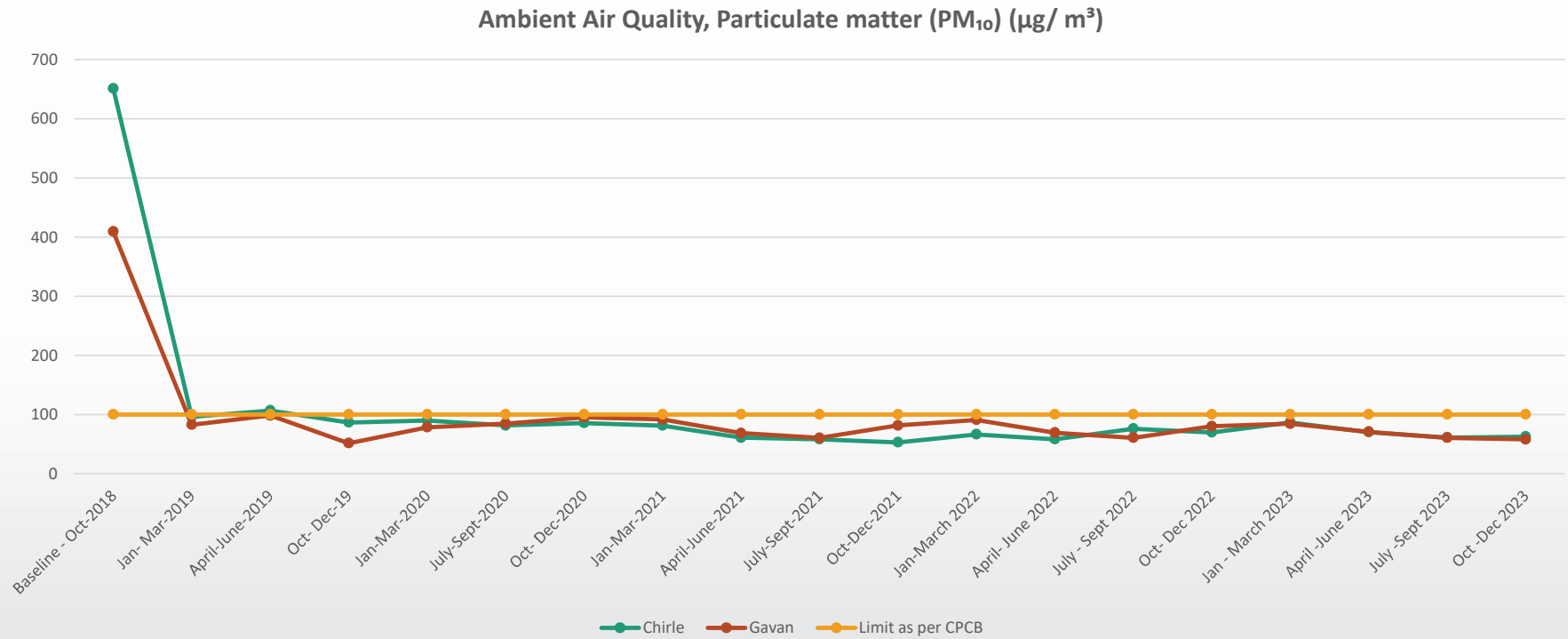


Silt content is a factor of the silt deposit from River water inflow and tidal variation in the creek, it ranges from 45-75%.

Package 3

Ambient Air Quality Trend Analysis for PM₁₀

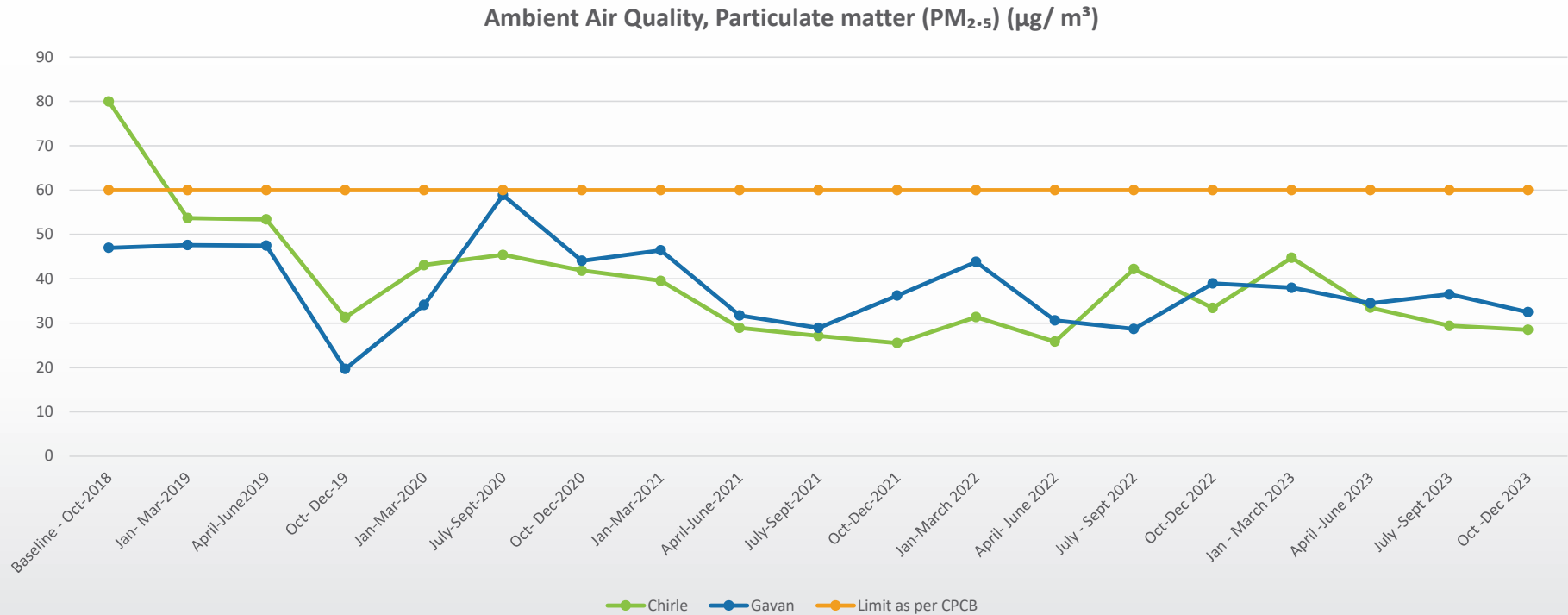
Standards for PM 10: 100 µg/m³



Note: The measurement value is within limit as per NAAQ standards

Ambient Air Quality Trend Analysis for PM_{2.5}

Standards for PM 2.5: 60 µg/m³

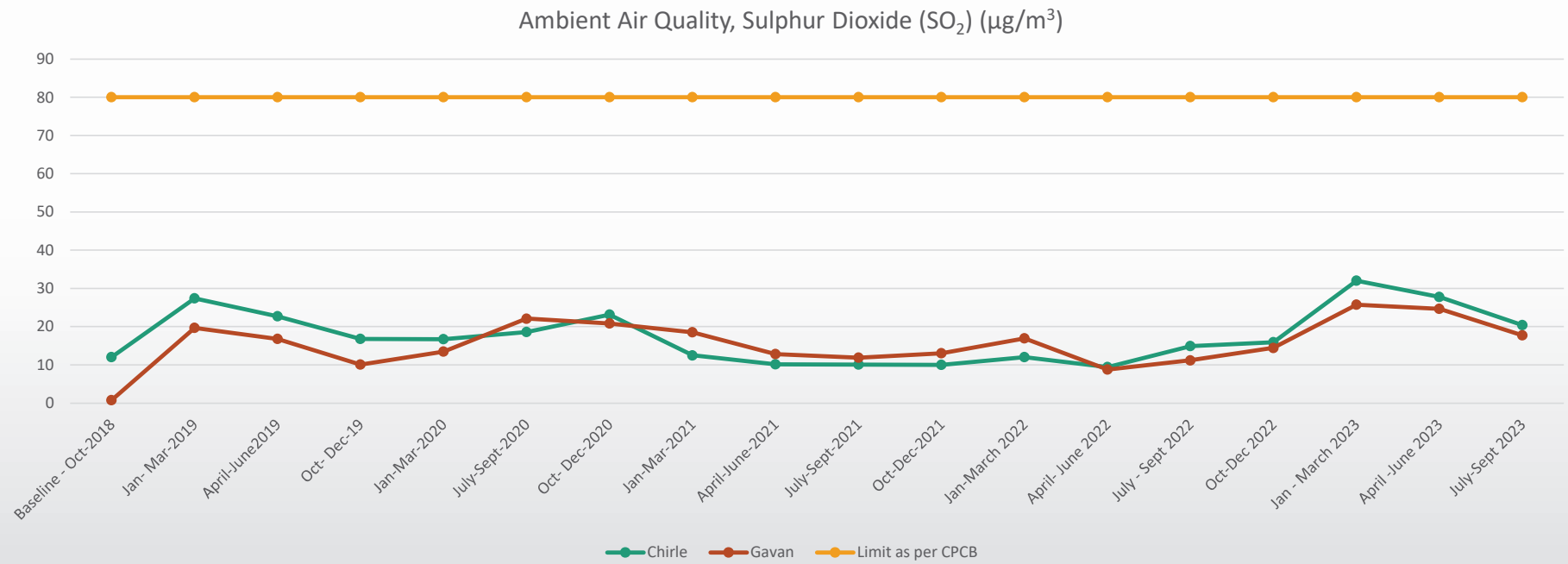


Note: The measurement value is within limit as per NAAQ standards

MTHL - Package III

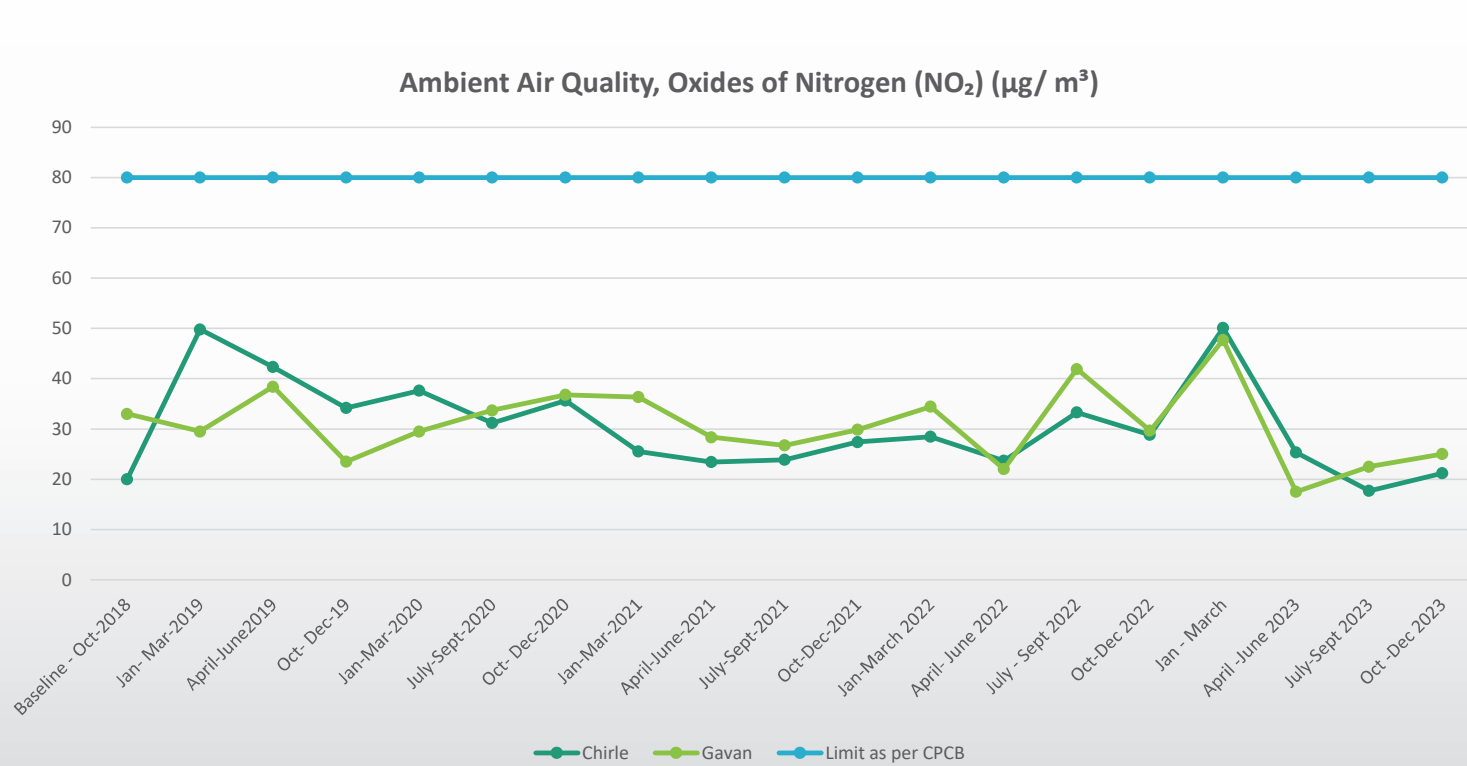
Ambient Air Quality Trend Analysis for SO₂

Standards for SO_x - 80 µg/m³
Note: Values indicating 0 are
Below Detectable limit (DL=10)



Note: The measurement value is within limit as per NAAQ standards

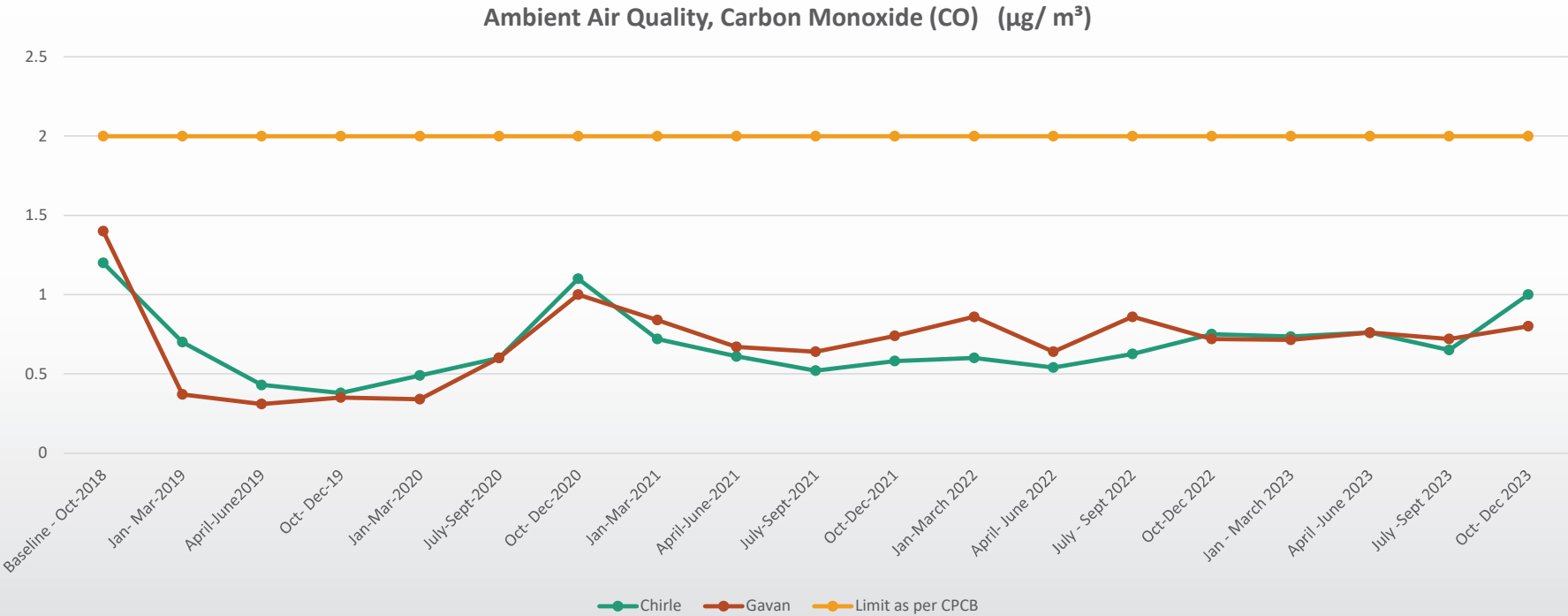
Ambient Air Quality Trend Analysis for NO₂



Note: The measurement value is within limit as per NAAQ standards

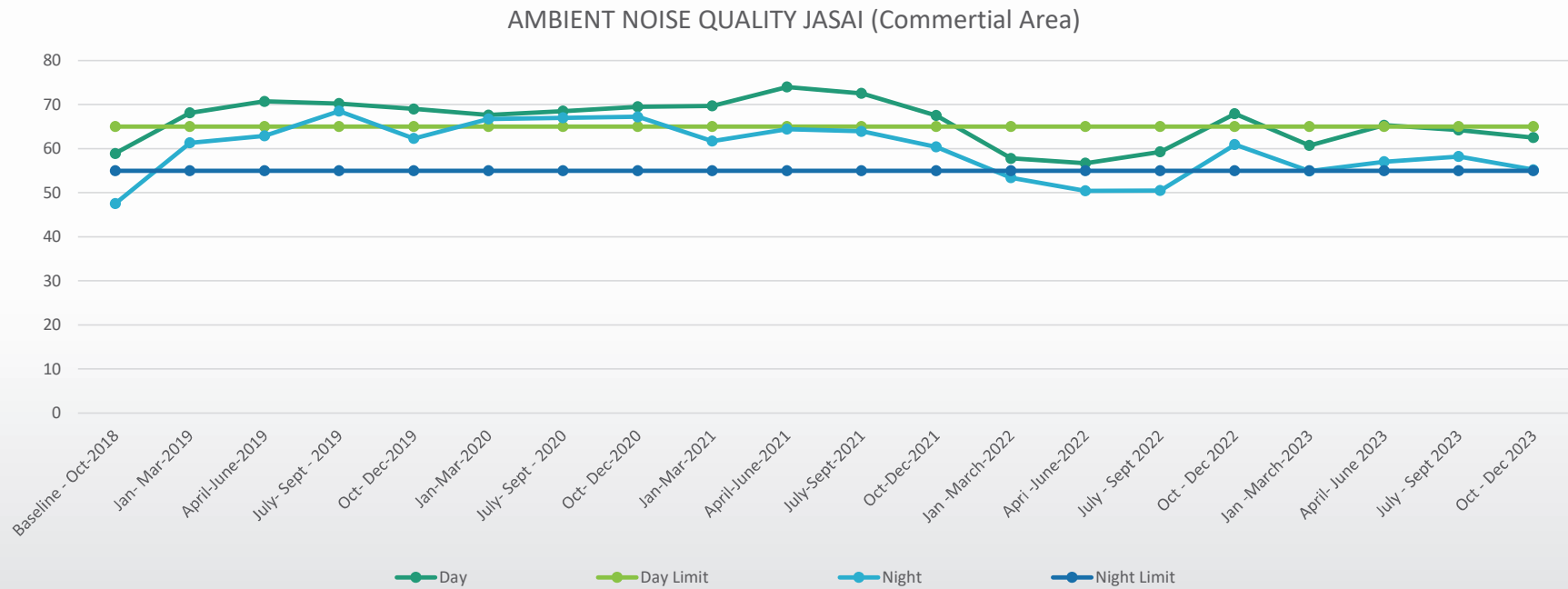
Ambient Air Quality Trend Analysis for CO

Standards for CO – 2 mg/m³
Note: Values indicating 0 are Below Detectable limit (DL=5)



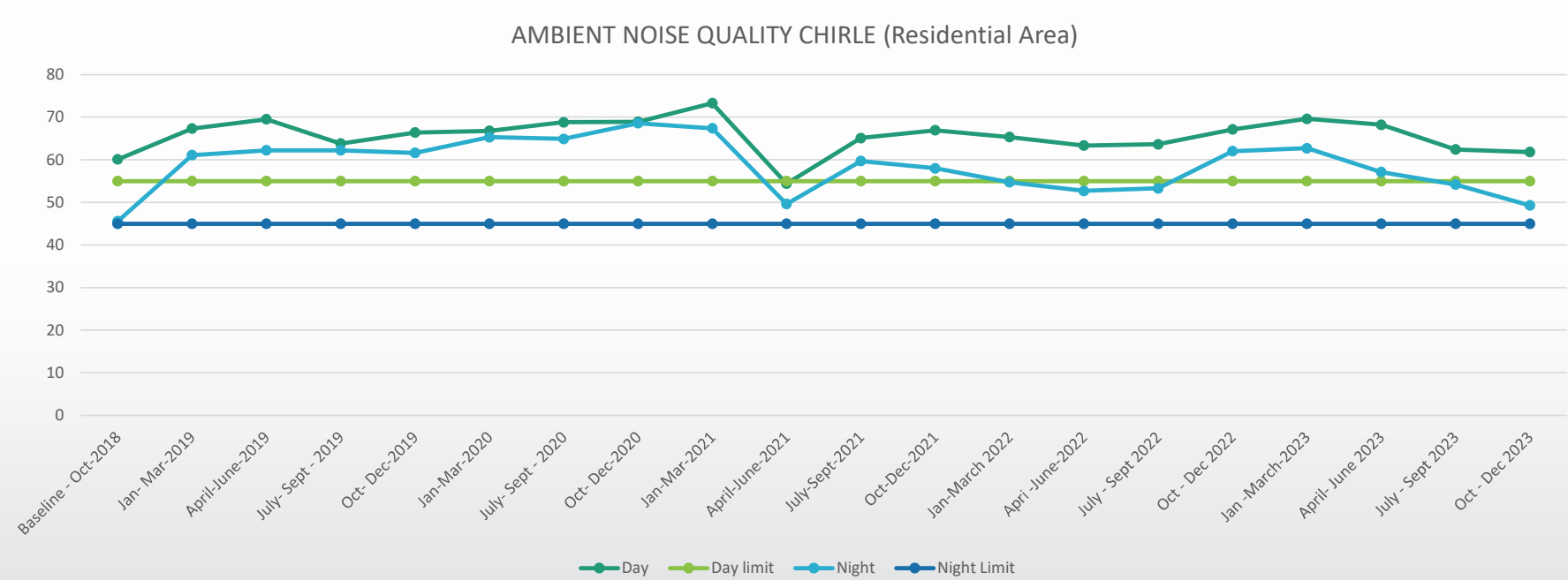
Note: The measurement value is within limit as per NAAQ standards

Ambient Noise Quality Trend Analysis



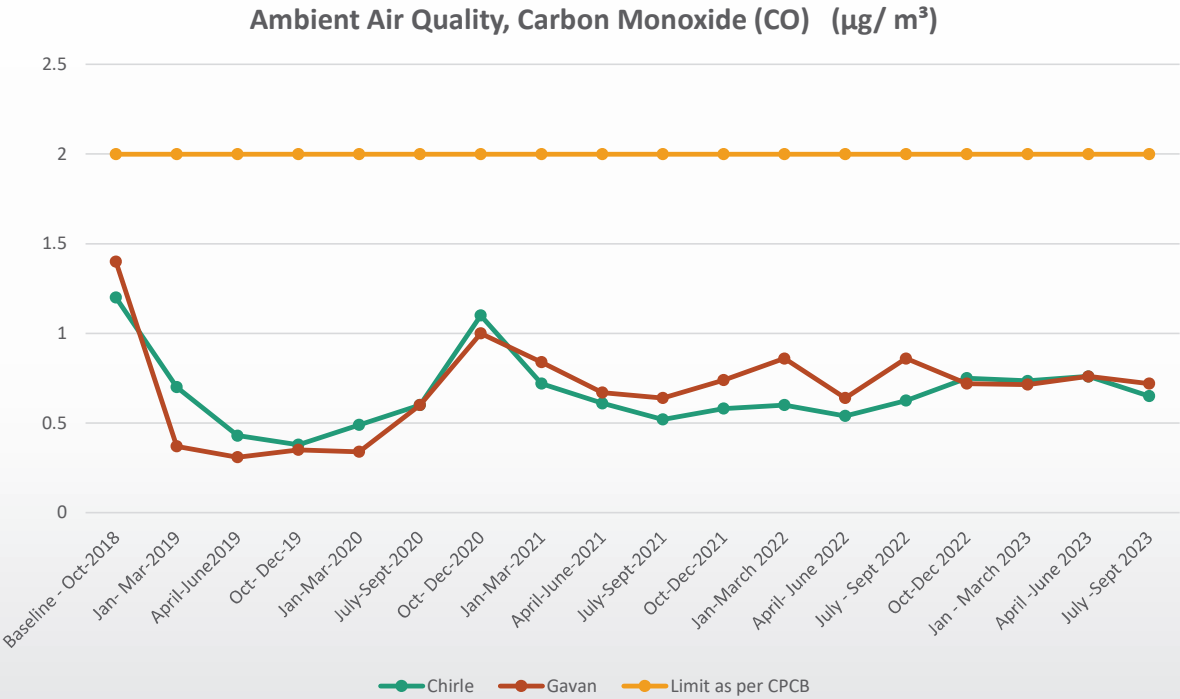
MTHL- Package III

Ambient Noise Quality Trend Analysis



Ambient Air Quality Trend Analysis for CO

Standards for CO – 2 mg/m³
Note: Values indicating 0 are Below Detectable limit (DL=5)



Note: The measurement value is within limit as per NAAQ standards

EMP Expenditure Details up to december -23

Sr. No	Environmental attribute	Provisions (As stipulated in CRZ clearance)	July- Dec	Cumulative Expenditure
		(Rs. in Crore)		
1	Environmental Monitoring- Air Act, Water Act, Noise levels	8	0.41	2.47
2	Compensatory Restoration Plan (Mangroves)	25	0.03	51.05
3	Implementation of the suggestions given by BNHS	25	0.00	41.98
4	Noise barriers	45	0.00	1.14
5	Mitigation of marine water pollution caused due to the surrounding industries and Sewage from Urban Bodies, by providing Funding and Capacity Building for Enabling Effluent Treatment	40	0.00	5.80
6	Contribution to Mangroves Fund, an initiative by Govt. of Maharashtra for Conservation and Protection of Mangroves in Coastal areas by depositing Seed Money. This can be used for Survey & Demarcation of Notified areas. Purchase of vehicles and equipment for anti-Encroachment drives, etc.	25	0.00	25.00
7	Oil Spill Mitigation Plan	10	0.01	1.85
8	Habitat quality assessment and monitoring Surveillance management and monitoring team for migratory birds, marine flora, turbidity in sea floor, etc Corpus fund for mudflat restoration program	20	0.00	0.00
9	Appointment of Bird Monitor and his assistant till Restoration of Baseline data	4	0.00	0.00
10	DMP, Firefighting, Risk Analysis	15	0.02	2.80
11	Sustainable development including establishing Nature Interpretation Centre	10	0.00	0.00
12	Safety and Security	15	4.10	56.78
13	Energy conservation	10	0.24	4.98
14	Landscaping-Plantation of trees, flower in plants etc.*	8	0.00	0.00
15	Compensation and Capacity Building of Fisher folks due to Temporary and Permanent Loss of Fishing round	75	0.00	205.00
Total		335	4.81	398.84

**AECOM****PADECO****dar****TYLIN**
INTERNATIONAL**General Consultant for Mumbai Trans Harbour Link Project**

Ref No: MTHL/GC/MMRDA/LT/QPR- 4036 /2023

02 February 2024

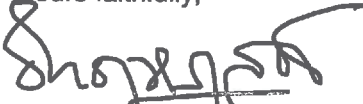
To,
Engineer-in-Chief
Engineering Division
Mumbai Metropolitan Regional Development Authority (MMRDA)
2nd Floor, New MMRDA Building,
Plot No R-06 & R-12, 'E' Block
Bandra Kurla Complex, Bandra (E),
Mumbai, Maharashtra, India 400051.

Sub: General Consultancy services for Mumbai Trans Harbour Link (MTHL) project – **Submission of the Draft Quarterly Progress Report (QPR) No. 26 for July-August-September 2023 for review.**

Dear Sir,

With reference to the above subject, please find enclosed a hard copy of the draft for Quarterly Progress Report (QPR) No.26 along with the updated attachments for the period of July to September 2023 for your review.

Thanking you,
Yours faithfully,


K.R. Shivananda
The Engineer
General Consultant (MTHL)

Encl: A draft copy of the Quarterly Progress Report No. 26 (July-September 2023)

CC: Superintending Engineer – MMRDA - Mr. Purushottam Nimje
Executive Engineer – MMRDA – Mr. Arjun Korgaonkar
Superintending Engineer – MMRDA - Mr. Yatin Sakhalakar
Executive Engineer – MMRDA – Mr. Abhijit Bhisikar
Executive Engineer – MMRDA – Mr. M. P. Singh

By Email

Page 1 of 1



एमएमआरडीए
MMRDA

Mumbai Metropolitan Region Development Authority

Mumbai Trans Harbour Link Project

Quarterly Progress Report - No. 26

(From 1st July to 30th September 2023)



Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 26 (Jul-Sep 2023)

Mumbai Trans Harbour Link Project
Quarterly Progress Report No. 26
1st July 2023 to 30th September 2023
Loan Agreement No. ID-P255 (Tranche-I), ID-P283 (Tranche-II) & ID-307
(Tranche-III)

ORGANIZATION INFORMATION

Borrower	Mumbai Metropolitan Region Development Authority	
	Person in Charge	Metropolitan Commissioner, MMRDA
	Contact Address	M.M.R.D.A. New Office Building, Bandra-Kurla Complex, Plot no. R-5, R-6 & R-12, E Block, Bandra (East), Mumbai - 400051 Phone: +91-22-26594000 Fax No: +91-22-2659 1264
Executing Agency	Mumbai Trans Harbour Link Project Implementation Unit	
	Headed by:	Engineer-In-Chief Mumbai Trans Harbour Link Project Implementation Unit
	Contact Address	M.M.R.D.A. New Office Building, Bandra-Kurla Complex, Plot no. R-5, R-6 & R-12, E Block Bandra (East), Mumbai - 400 051 Phone: +91-22-2659 4034 Fax No: +91-22-2659 4179

Details of JICA Loan

Source of Finance	JICA ODA Loan Portion:	238,572 million Japanese YEN (JPY)
	Tranche-I:	144,795 million Japanese YEN (JPY) (Loan Agreement signed on 31 st Mar 2017)
	Tranche-II:	66,909 million Japanese YEN (JPY) (Loan Agreement signed on 27 th Mar 2020)
	Tranche-III:	30,755 million Japanese YEN (JPY) (Loan Agreement signed on 27 th Feb 2023)
Terms and Conditions of JICA ODA Loan (Tranche-1)	Repayment Period:	30 years, including 10 years of the grace period.



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R0	18/09/2019	Quarterly Progress Report No. 9 (Apr-Jun 19)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	13/11/2019	Quarterly Progress Report No. 10 (Jul-Sep 19)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	11/02/2020	Quarterly Progress Report No.11 (Oct-Dec 19)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	25/11/2020	Quarterly Progress Report No.12 (Jan-Mar 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	15/12/2020	Quarterly Progress Report No.13 (Apr-Jun 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	06/01/2021	Quarterly Progress Report No.14 (Jul-Sept 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	12/02/2021	Quarterly Progress Report No.15 (Oct-Dec 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	06/05/2021	Quarterly Progress Report No.16 (Jan-Mar 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	30/07/2021	Quarterly Progress Report No.17 (Apr-Jun 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	11/11/2021	Quarterly Progress Report No.18 (Jul - Sep 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	17/01/2022	Quarterly Progress Report No.19 (Oct-Dec 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	22/04/2022	Quarterly Progress Report No.20 (Jan - Mar 22)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	12/07/2022	Quarterly Progress Report No.21 (Apr-Jun 22)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	18/10/2022	Quarterly Progress Report No.22 (Jul-Sep 22)	Prashant B	Mrs. Mayil. K	Dr Robin Sham
R0	10/01/2023	Quarterly Progress Report No.23 (Oct-Dec 22)	Mrs. Mayil.	Mr. Som Ghosh	Dr Robin Sham
R0	16/04/2023	Quarterly Progress Report No.24 (Jan-Mar 23)	Mrs. Mayil.	Mr. Som Ghosh	Dr Robin Sham
R0	01/08/2023	Quarterly Progress Report No.25 (Apr-Jun 23)	Mr. Ayush Kottary	Mr. Som Ghosh	Mr. Shivananda. K
R0	31/01/2024	Quarterly Progress Report No.26 (Jul-Sep 23)	Mr. Ayush Kottary	Mr. Som Ghosh	Mr. Shivananda. K



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1.0 PROJECT DESCRIPTION

1.1 Project Objective

Original:

To improve connectivity in Mumbai Metropolitan region by constructing the Mumbai Trans Harbour Link connecting Mumbai with Navi Mumbai, thereby contributing to mitigation of traffic congestion and promoting regional economic development.

Actual (P/R, PCR)

There is no change in the Project Objective.

1.2 Necessity of the Project

The Project is consistent with the development policy, sector plan, national/regional development plans and demand of target group of the recipient country.

Benefits from MTHL Project

- Saving in travel time for commuters from Mumbai to Navi Mumbai.
- Improved comfort and accessibility between the island and the mainland.
- Reduced operating costs of vehicles due to lesser congestion.
- Smooth traffic flow from Navi Mumbai airport to Mumbai Island.
- Accelerated economic development of Navi Mumbai and nearby regions.
- Greater economic integration of Mumbai Island with Navi Mumbai and extended regions of Pune, Goa, Panvel and Alibaug.
- Improvement in environment and reduced pollution levels.
- Improved safety due to reduction in accidents.
- Improvement in trade competitiveness through faster and improved logistics.
- Accelerated growth of Navi Mumbai.
- Decongestion of Mumbai Island and dispersal of population to Navi Mumbai region & beyond.

Necessity of the Project

1. Although the urbanization in India has been rapidly progressing, infrastructure development in the urban areas has not caught up its progress. Particularly, the traffic congestion in the urban areas due to a lack of road network hinders the economic development. Thus, Government of India (GOI) places transport and connectivity as one of the "Growth Enablers" and plans to enhance road network in the "Three Year Action Agenda 2017-2018 to 2019-20 (NITI Aayog)".
2. Mumbai Metropolitan Region, which includes Mumbai and Navi Mumbai, has about 18.4 million people in population as of 2011 (Census 2011) and the population density reaches 20,694 people per square km in the center of Mumbai, which is one of the most overpopulated and high-density cities in the world.
3. Mumbai, the narrow stretch of land that has traditionally been the epicentre of India's commerce, has seen a steady increase in population in the last three decades despite obvious spatial constraints. Thus, the development of Navi Mumbai has been identified as an urgent requirement for broad development in Mumbai Metropolitan Region.
4. There is no change in the Necessity of the Project preamble. jurisdiction, has been facilitating



various development plans particularly in Navi Mumbai area, which stands at the opposite site of Mumbai across the Mumbai Bay and still has spacious area for development, such as a new international airport, Special Economic Zone (SEZ) and expansion of Jawaharlal Nehru Port in order to promote the sustainable economic development in Mumbai Metropolitan Region.

5. Furthermore, a lack of connectivity in Mumbai has stunted its growth. The GoM has given importance to construct the faster connection with Mumbai to Navi Mumbai International Airport, Jawaharlal Nehru Port, Mumbai-Pune expressway and main hinterland.
6. Accordingly, the Mumbai Trans Harbour Link (MTHL) has been identified as the important infrastructure to improve the connectivity between Mumbai and Navi Mumbai and continue economic development in Mumbai Metropolitan Region.

The MTHL is proposed to be developed as an expressway link comprising of a dual three-lane main carriageway bridge connecting Sewri in Mumbai to Chirle in Navi Mumbai. When completed, MTHL will reduce the distance between Mumbai and Navi Mumbai and will help save approximately an hour in travel time. Also, development of Navi Mumbai along with the imminent construction of the Navi Mumbai airport will lead to increased traffic between Mumbai and Navi Mumbai. Consequently, the project is envisaged to; improving accessibility between Mumbai and Navi Mumbai, accelerating growth of Navi Mumbai, smooth traffic flow from Navi Mumbai airport to Mumbai, accelerating economic development of Navi Mumbai and surrounding regions, greater economic integration of Mumbai with Navi Mumbai and extended regions of Pune, Goa, Panvel and Alibaug, and decongestion of Mumbai and dispersal of population to Navi Mumbai region and beyond.

7. The Comprehensive Transportation Study (CTS) for Mumbai Metropolitan Region which was guided by Mumbai Metropolitan Region Development Authority (MMRDA) and supported by World Bank, was completed in July 2008, which was over 25 years after the issuance of the last comprehensive transport study. The report provided a vision for Mumbai's future transportation as seamless and integrated system, in which commuters can make their journeys safely and conveniently by various modes of transport, particularly by public transport, and recommended the development of Multi Modal Corridor to take care of the varied travel demands of the region for the period up to 2031. The CTS proposed to develop the highway network in the region. The MTHL has been regarded as the priority road for Mumbai, considering its function and importance connecting between Mumbai and Navi Mumbai.
8. **Necessity of the Project:** - To promote economic development in Mumbai Metropolitan Region it is essential to improve the connectivity between Mumbai and Navi Mumbai, by constructing MTHL

Actual (P/R, PCR)

There is no change in the Necessity of the Project preamble.

1.3 Rationale of the Project Design

- Timing, Scale, Technology of the Project:

Demand Analysis

1. At the opening year 2022, the daily traffic on the main bridge is expected to be 39,300 PCU. The traffic is projected to increase up to 103,900 by 2032 and up to 145,500 by the year 2042. The daily breakdown by vehicle class on the main bridge link is presented in the Table 1.3.1 below:

Table 1.3.1 Demand Projections Over the Period

Vehicle Type	Between Sewri Interchange and Shivaji Nagar Interchange			Between Shivaji Nagar Interchange and Chirle Interchange		
	2022	2032	2042	2022	2032	2042
Car	24,100	66,400	94,100	4,900	21,300	43,300
Taxi	2700	14,100	20,200	100	400	2,300
Bus	2,700	3,700	3,700	2,700	3,700	3,700
LCV	2,200	4,100	5,600	700	1,300	1,800
HCV	3,000	6,500	8,100	1,000	2,000	2,200
MAV	4,600	9,100	13,800	400	900	1,700
Total	39,300	103,900	145,500	9,800	29,600	55,000

LCV: Light Commercial Vehicle; HCV: Heavy Commercial Vehicle; MAV: Multi Axle Vehicle

2. At the opening year in 2022, the traffic flow on MTHL represents a diversion of 10% on the traffic across Thane creek which will increase up to 16% in 2032. If only Thane Creek Bridge is considered, then the diverted traffic from the bridge will be 21% in 2022 which will rise up to 35% in 2032.
3. 6-lane of main carriageway was decided by GoM. It was reviewed based on the forecasted result of future traffic volume by Manual of Specification and Standards for Expressways (IRC: SP:99-2013). The result of the review shows that 6-lane will be required in 2032 (10 years later after traffic open). Although, 8-lane will be required in 2042, it is assumed that the level of service of MTHL would be maintained as additionally metro might be constructed in parallel with MTHL.

Design Parameters / Overall Design

4. The MTHL which is 21.8 km long road bridge partly on the land and partly over the creek across the Mumbai Bay between Sewri in Mumbai and Chirle in Navi Mumbai, is to be constructed with the approach sections and interchanges. ITS (Intelligence Transport System) and the other necessary facilities will be provided for full access-controlled bridges.
5. As per the provisions of IRC (Indian Road Congress) SP:99-2013, the Width of each lane of the Main Carriageway is 3.5 meters.
6. When the design speed is 100 km/h according to the traffic demand forecast the large vehicle, ratio will be as low as 9.4% (2022).
7. The shoulder width of bridge towards outside of each carriageway is 2.5 meters and towards median side of each carriageway is 0.75 meters.
8. The major portion of MTHL structure is on sea and partly towards ends is on land with different type and with different span, viz., PC box girder with 50 m spans which is



typically applied on marine viaduct since, it is economical, easy to construct and maintain.

9. On the land portion, the PC box girder having span of generally 30m is used.
10. As far as the location in which long span (150-180 m) is required to cross significant obstacles, such as navigation channels, pipelines and creeks, the steel box girder bridge with steel deck is proposed with large block erection method to shorten the construction period.
11. The project is coded with three lanes of traffic in each direction. The reference toll is presented in the Table 1.3.2 below for each vehicle class in Year 2022 (based on 2015 monetary value reflecting price escalation).

Table 1.3.2: Base Toll Rates (Rs) for different class of vehicles between Interchanges

Vehicle Type	Sewri to Shivaji Nagar	Shivaji Nagar to Chirle	Total
Car	180	60	240
Bus	420	130	550
LCV	240	70	310
HCV	420	130	550
MAV	600	180	780

Intelligent Transport Systems (ITS) and Toll Management System (TMS)

12. The Toll Management System will be implemented in MTHL to collect tolls from all road users of MTHL. Two types of toll collection method will be adopted: Electronic Toll Collection (ETC) and Manual (paying by cash).
13. The lanes corresponding to these toll collection methods are dedicated ETC lanes and Manual lanes, and Manual system shall be installed to ETC lanes for backup to be able to cope at the time of the trouble of ETC equipment failure.

Traffic management System

14. Traffic Management System is a support system to Manage the traffic on MTHL safely and efficiently. The System consists of the information collection system including Closed-Circuit Television (CCTV), Emergency Call Box (ECB), Automatic Traffic Counter-Cum-Classifier (ATCC) and Meteorological Data System (MDS), and Information Dissemination System including Variable message Sign (VMS).
15. CCTV Cameras shall be installed at around three places per 1 km, on Both side of main route and the monitoring of the traffic condition of the whole stretch of MTHL will be almost enabled in the Traffic Control Centre and VMS displays the appropriate information for road users on the collated information.
16. The Information collected by these devices shall be transmitted to the Command Control Centre through the medium of an Optical Fiber Cable laid in MTHL.

Actual (P/R, PCR)

There is no change in the Rationale of the Project Design.

2.0 PROJECT IMPLEMENTATION

2.1 Project Scope

Refer Table 2.1.1 and 2.1.2 for details on Scope of the Project.

Table 2.1.1 Comparison of Original and Actual location

Location	Original: (P/M) Mumbai Metropolitan Region Development Authority, Mumbai, State of Maharashtra	Actual: (P/R and PCR)
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Table 2.1.2 Comparison of Original and Actual Scope

Items	Original	Actual
Construction work: 6-lane Marine Bridge Road (21.8 km)		
Package-1 Ch 0+000-10+380 (10.380 km)	<ul style="list-style-type: none"> • 1 Interchange (Sewri) • Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder) • Viaduct Substructure (RC Concrete Structure) • Viaduct Foundation (Bored piles) • Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	(P/R and PCR)
Package-2 Ch 10+380-18+187 (7.80 km)	<ul style="list-style-type: none"> • 1 Interchange (Shivaji Nagar) • Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder) • Viaduct Substructure (RC Concrete Structure) • Viaduct Foundation (Bored piles) • Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	(P/R and PCR) Actual: No View Barriers
Package-3 Ch 18+187-21+800 (3.61 km)	<ul style="list-style-type: none"> • 2 Interchanges (State Highway-54, National Highway-4B) • Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder & Steel Truss Girder for Rail-over-Bridges (ROB)) • Viaduct Substructure (RC Concrete Structure) • Viaduct Foundation (Bored piles) • Cutting Section (6-lane with Slope Protection) 	(P/R and PCR) Actual: No Noise Barriers & View Barriers



Items	Original	Actual
	<ul style="list-style-type: none"> Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	
Package-4 ITS (Intelligent Transport System)	<ul style="list-style-type: none"> Administrative Buildings Toll Booths (1 for main alignment and each on and off ramps for 3 interchanges) Traffic Management System (Traffic Control Centre, Closed Circuit Television (CCTV), Meteorological Observation System (MET), Emergency Call Box (ECB), Automatic traffic Counter-cum-Classifer (ATCC), Variable Message Sign (VMS)) Highway Lighting (Whole sections Low-positioned lighting for some sections) Electrical Powering System including HV/ LV Ring Network across the Bridge. 	(P/R and PCR)
Consulting Services	<ul style="list-style-type: none"> Tender Assistance Construction Supervision Facilitation of Implementation of Environmental Management Plan (EMP), Environmental Monitoring plan (EMoP). 	(P/R and PCR)

2.2 Implementation Schedule

2.2.1 The Original Implementation Schedule

Table 2-2-1 Comparison of Original and Actual Schedule

Items	Original	Status (P/R and PCR) as on 30 th Sep 2023
1) Completion of Land Acquisition and Resettlement	Mar 2019	Dec 2022
2) Consulting Services		
a) Selection of Consultant	May – Dec 2016	May – Dec 2016
b) Consultancy Works	Dec 2016 – Sep 2022	Oct 2022 – Mar 2024 (Extended)
3) Selection of Contractor		
Package-1, Package-2 & Package-3 (Civil)		
a) Pre-Qualification Process	May – Dec 2016	May – Dec 2016
b) Main Bidding	Jan– Dec 2017	Jan – Dec 2017
c) JICA's Concurrence of Contract	Feb-2018	Feb-2018
Package-4 (ITS)		
a) Pre-Qualification Process	Single Stage Bidding as concurred by JICA	
b) Main Bidding	June 2019 – Sep 2020	Jan 2021 – Dec 2021
4) Civil Construction		
Package-1 and Package-2	Mar 2018 – Sep 2022	Mar 2018–Sep 2023 (Extended)
Package-3	Mar 2018 – Sep 2021	Mar 2018 – Aug 2023 (Extended)
Package-4	June 2022 – Sep 2023	June 2022 – Sep 2023
5) Defect Liability Period		
Package-1 and Package-2	Oct 2022 – Sep 2024	Oct 2023 – Sep 2025
Package-3	Oct 2021 – Sep 2023	Sep 2023 – Aug 2025
Package-4	Oct 2023 – Sep 2025	Oct 2023 – Sep 2025
For ITS	Sep 2025- Sep 2028	Sep 2025- Sep 2028

Attachment 6, 7 & 8: Package wise construction schedules (progress) updated at the end of 1st Quarter (Jul – Aug - Sept 2023).



2.2.2 Reasons for changes of the schedule and their effects to the Project*(P/R and PCR)*

No change in the Implementation Schedule except the selection of O&M Organization timeline.

Cost Breakdown	Foreign Currency Portion			Local Currency Portion			Total		
	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total (Rs. mil)	JICA Portion (Rs. mil)	Others (Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)
Package-1	37,249	37,249	0	43,708	43,708	0	112,426	112,426	0
Package-2	29,247	29,247	0	33,283	33,283	0	86,494	86,494	0
Package-3	804	804	0	8,360	8,360	0	15,184	15,184	0
Package-4 (ITS)	0	0	0	3,770	3,770	0	6,484	6,484	0
Package-5 (Geotechnical Investigation)	0	0	0	147	0	147	253	0	253
Dispute Boards (Package-1, 2, 3 & 4)	0	0	0	58	58	0	99	99	0
Price Escalation	390	390	0	403	403	0	1,082	1,082	0
Physical Contingency	5,077	5,077	0	6,730	6,719	11	16,652	16,633	19
Consulting Services	1,611	1,611	0	1,423	1,423	0	4,058	4,058	0
Land Acquisition*	0	0	0	10,495	0	10,495	18,052	0	18,052
Administration Cost	0	0	0	4,548	0	4,548	7,823	0	7,823
GST	0	0	0	16,935	0	16,935	29,128	0	29,128
Import Tax	0	0	0	12,691	0	12,691	21,830	0	21,830
Interest during construction	3,349	0	3,349	0	0	0	3,349	0	3,349
Front End Fee	485	0	485	0	0	0	485	0	485
Total	78,211	74,377	3,833	142,550	97,723	44,828	323,396	242,459	80,938

2.3 Project Cost

2.3.1. a Comparison of Originally Planned and Actually Incurred Cost by ITEM

Table 2.3.1.a.(i) Originally Planned Cost by ITEM

Cost Breakdown	Foreign Currency Portion			Local Currency Portion			Total		
	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total Rs. mil)	JICA Portion Rs. mil)	Others Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)
Package-1	37,249	37,249	0	43,708	43,708	0	112,426	112,426	0
Package-2	29,247	29,247	0	33,283	33,283	0	86,494	86,494	0
Package-3	804	804	0	8,360	8,360	0	15,184	15,184	0
Package-4 (ITS)	0	0	0	3,770	3,770	0	6,484	6,484	0
Package-5 (Geotechnical Investigation)	0	0	0	147	0	147	253	0	253
Dispute Boards (Package-1, 2, 3 & 4)	0	0	0	58	58	0	99	99	0
Price Escalation	390	390	0	403	403	0	1,082	1,082	0
Physical Contingency	5,077	5,077	0	6,730	6,719	11	16,652	16,633	19
Consulting Services	1,611	1,611	0	1,423	1,423	0	4,058	4,058	0
Land Acquisition*	0	0	0	10,495	0	10,495	18,052	0	18,052
Administration Cost	0	0	0	4,548	0	4,548	7,823	0	7,823
GST	0	0	0	16,935	0	16,935	29,128	0	29,128
Import Tax	0	0	0	12,691	0	12,691	21,830	0	21,830
Interest during construction	3,349	0	3,349	0	0	0	3,349	0	3,349
Front End Fee	485	0	485	0	0	0	485	0	485
Total	78,211	74,377	3,833	142,550	97,723	44,828	323,396	242,459	80,938

Note - 1. Exchange Rate: US\$1=Rs. 78.1, US\$1=JPY 134.0, Rs.1 = JPY 1.72

2. Price Escalation (a) Foreign Currency Portion: 2.06% p.a.

(b) Local Currency Portion: 4.50% p.a.

3. Physical Contingency: 7.5%

4. Base Year for Cost Estimation: July 2022



Table 2.3.1.a.(ii) Actually Incurred Cost by ITEM

Cost Breakdown	Foreign Currency Portion			Local Currency Portion			Total		
	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total (Rs. mil)	JICA Portion (Rs. mil)	Others (Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)
Package-1	36,925	36,925	-	46,559	46,559		109,317	109,317	
Package-2	27,662	27,662	-	34,601	34,601		81,958	81,958	
Package-3	805	805	-	8,383	8,383		13,750	13,750	
Package-4 (ITS)	-	-	-	715	715		1,202	1,202	
Package-5 (Geotechnical Investigation)	-	-	-	196		196	337		337
Dispute Boards (Package-1, 2, 3 & 4)	-	-		-			-		-
Price Escalation	-	-		-					-
Physical Contingency	-	-		-			-		-
Consulting Services	253	253		362	362		2,051	2,051	-
Land Acquisition*	-			9,890		9,890	17,011		17,011
Administration Cost	-			3,984		3,984	6,852		6,852
GST	-			19,145		19,145	32,929		32,929
Import Tax	-			-			-		-
Interest during construction	971		971	-			971		971
Front End Fee	423		423	-			423		423
Total	67,403	65,648	1,394	123,845	90,620	33,215	266,801	208,277	58,524

Note - 1. Exchange Rate: Rs.1 = JPY 1.72 for MMRDA Portion only

2. Price Escalation (a) Foreign Currency Portion: 2.06% p.a.

(b) Local Currency Portion: 4.50% p.a.

3. Physical Contingency: 7.5%

4. Base Year for Cost Estimation: July 2022



2.3.1. b. Comparison of Originally Planned and Actually Incurred Cost by YEAR**Table 2.3.1.b.(i) Originally Planned Cost by YEAR (All Figures are in JPY mil)**

Cost Breakdown	Total	JICA Portion				Others (MMRDA Portion)
		Tranche I	Tranche II	Tranche III	Sub Total	
FY 2015	82	0	0	0	0	82
FY 2016	247	0	0	0	0	247
FY 2017	22,806	10,041	0	0	10,041	12,765
FY 2018	39,813	23,631	0	0	23,631	16,182
FY 2019	41,797	33,549	0	0	33,549	8,248
FY 2020	35,348	26,354	0	0	26,354	8,994
FY 2021	63,583	48,460	0	0	48,460	15,123
FY 2022	50,198	2,759	39,911	0	42,670	7,528
FY 2023	46,007	0	26,998	11,247	38,245	7,762
FY 2024	15,494	0	0	12,907	12,907	2,587
FY 2025	8,022	0	0	6,601	6,601	1,421
Total	323,396	144,794	66,909	30,755	242,458	80,938

Table 2.3.1.b.(ii) Actually Incurred Cost by YEAR (All Figures are in JPY mil)

Cost Breakdown	Total	JICA Portion				Others (MMRDA Portion)
		Tranche I	Tranche II	Tranche III	Sub Total	
FY 2017	13,738	9,232	-	-	9,232	4,506
FY 2018	26,813	21,695	-	-	21,695	5,118
FY 2019	40,410	31,014	-	-	31,014	9,396
FY 2020	31,822	23,885	-	-	23,885	7,937
FY 2021	53,977	43,204	-	-	43,204	10,773
FY 2022	80,126	13,734	52,905		66,639	13,487
FY 2023	19,915		12,608		12,608	7,307
FY 2024						
Total	256,268	142,764	65,513	-	208,277	58,524

- e) 1. Exchange Rate used: Rs.1 = JPY 1.72 for MMRDA Portion only
2. Fiscal Year starting from 1st April and ending on 31st Mar.



2.3.2 Reason(s) for the wide gap between the original and actual, if there have been any, the remedies you have taken, and their results.

(P/R and PCR)

There is no major gap between the original and actual cost.

2.4 Organization for Implementation

2.4.1 Executing Agency

Original:

Executing Agency

Mumbai Metropolitan Region Development Authority (MMRDA) was established on 26th Jan 1975 in accordance with the Mumbai Metropolitan Development Act, 1974 to make Mumbai Metropolitan Region (MMR) a destination for economic activity by promoting infrastructure and regional planning. MMRDA takes all the necessary measures, required from time to time, in an effective manner and be fully responsible for the Project implementation. After completion of the Project, MMRDA continues to be responsible for the efficient operation and maintenance of the Project.

The GoM appointed MMRDA as the implementing/ executing agency of MTHL vide Government Resolution dated 4th Feb 2009 and further the ownership of MTHL would be with MMRDA vide Government Resolution dated 8th June 2011

Organization's Role

To construct, execute, carryout, improve, work, develop, administer, manage, control or maintain in MMR all types of roads, highways, express routes, paths, streets, bridges, sideways, tunnels and other infrastructure, works and conveniences, approach road, etc. Under the Project, MMRDA is responsible for all the tendering process including employment of consultants, as well as for the construction process.

Project Implementation Unit (PIU)

The PIU is in charge of the Projects. The PIU is headed by Chief Engineer, comprising of 6 Divisions/Cells (Finance Division, Social Development Cell, Engineering Division, Land Cell, Administrative Division and Environmental Cell), Supervision/ ITS Consultant and supporting staff.

Procurement

MMRDA shall have to adopt the JICA's Standard Bidding Documents of the latest version, as stipulated in Section 4.01 (2) of "Guidelines for Procurement under Japanese ODA Loans.

Procurement of goods and services, except for consulting services, converted by the Japanese ODA Loan should be implemented in accordance with "Guidelines for Procurement under Japanese ODA Loans", dated in Apr 2012. Employment of consultants should be implemented in accordance with "Guidelines of Employment of Consultant under Japanese ODA Loans", dated in Apr 2012. "Principles of Procurement under the Project" is attached for a brief explanation of the above Guidelines.

Actual, if changed: (P/R and PCR)

There is no change made in the original Organisation Set-up & Implementation methods. Refer Annexure III Organisation Chart.

2.4.2 Contractor(s)/ Supplier(s), and Consultant(s) and their Performance:**2.4.2.1 Procurement & Consultant****Table 2.4.2 Procurement of Contractor(s)/ Supplier(s) and Consultant(s)**

Contract Package	Selection Method		
	Original: (P/M)		Actual: (P/R and PCR)
Construction Works			
1	<u>Package-1:</u> From CH 0+000 - To CH 10+380 (10.38 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change
2	<u>Package-2:</u> From CH 10+380 - To CH 18+187 (7.80 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change
3	<u>Package-3:</u> From CH 18+187 - To CH 21+800 (3.61 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change
4	<u>Package-4:</u> To install ITS (Toll Management System and Highway Traffic Management System)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	International Competitive Direct Bidding Process without Pre-Qualification
5	<u>Package-5:</u> To conduct the geotechnical investigation	Local Competitive Bidding Process	No Change
Consulting Services			
1	Consulting Service for Supervision	Short List Method (QCBS)	No Change



2.5 Consultant's Progress:

July 2023:

- i) GC scrutinized & certified the following invoices claimed by the Contractors:
- o Package-1: IPC-66-100% Certified and IPC-68 and IPC-09 -80% Ad-hoc Certified by GC.
 - o Package-2: IPC-61 and IPC-62-80% Ad-hoc Certified by GC.
 - o Package-3: IPC-56 100% Certified and IPC-57 -80% Ad-hoc Certified by GC.
 - o Package-4: IPC-02 and IPC-03 -80% Ad-hoc Certified by GC.

August 2023:

GC scrutinized & certified the following invoices claimed by the Contractors:

- o Package-1: IPC-67 and IPC-68 100% certified and IPC-70 80% Ad-hoc certified by GC.
- o Package-2: IPC-61, IPC-62 and IPC-63 100% certified & IPC-64-80% Ad-hoc certified by GC.
- o Package-3: IPC-58-80% Ad-hoc certified by GC.
- o Package-4: IPC-02 and IPC-03 100% Certified and IPC-04 -80% Ad-hoc Certified by GC.

September 2023:

GC scrutinized & certified the following invoices claimed by the Contractors:

- o Package-1: IPC-69-100% Certified and IPC-71 -80% Ad-hoc Certified by GC.
- o Package-2: IPC-61 - 100% Certified and IPC-65-80% Ad-hoc Certified by GC.
- o Package-3: IPC-57 100% certified by GC.
- o Package-4: IPC-04-100% Certified and IPC-05 -80% Ad-hoc Certified by GC.

GC has prepared and submitted a total reimbursement claim of 7357.62 million JPY to MMRDA / JICA in Jun 2023. (Please refer Annexure-1,2&3)

100% of the Technical Design Modules across all the 3 Packages have been given "NONO" by the GC & Package design submission is in progress.

100% of the Construction (GFC – Good for Construction) Design Modules across all the 3 Packages have been given "NONO" by the GC.

Package-1 – 100%, Package-2 – 100%, Package-3 -100%.



2.6 Contractor's Progress:**2.6.1 Package-1 Physical Progress till 30th September 2023**

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1	Permanent Bridge Works - Land/ Interchange Zone					
1.1	Piles	523	No.	523	100.00%	
1.2	Pile Caps	158	No.	158	100.00%	
1.3	Piers	228	No.	228	100.00%	
1.4	Pier Caps	215	No.	215	100.00%	
2	Permanent Bridge Works - Intertidal Zone					
2.1	Piles	312	No.	312	100.00%	
2.2	Pile Caps	75	No.	75	100.00%	
2.3	Piers	146	No.	146	100.00%	
2.4	Pier Caps	146	No.	146	100.00%	
3	Permanent Bridge Works - Marine Zone					
3.1	Piles	403	No.	403	100.00%	
3.2	Pile Caps	80	No.	80	100.00%	
3.3	Piers	162	No.	162	100.00%	
3.4	Pier Caps	162	No.	162	100.00%	
4	Permanent Bridge Works - Total					
4.1	Piles	1238	No.	1238	100.00%	
4.2	Pile Caps	313	No.	313	100.00%	
4.3	Piers	536	No.	536	100.00%	
4.4	Pier Caps	536	No.	536	100.00%	
5	Precast Segments					
5.1	Segment Casting	6714	No.	6714	100.00%	
5.2	Segment (Span) Erection+ Cast-in-Situ Slab	478	No.	478	100.00%	
6	OSD Structural Steel					
6.1	Fabrication	53703	MT	53703	100.00%	
6.2	Assembly (Large Blocks)	53703	MT	53703	100%	
6.3	OSD Span Erection	38	No.	38	100%	
7	Crash Barrier					
7.1	Crash Barrier	51814	Rmt	51641	99%	



2.6.2 Package-2 Physical Progress till 30th September 2023

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1	Permanent Bridge Works - Land/ Interchange Zone					
1.1	Open Foundation	113	No.	113	100.00%	
1.2	Piers	119	No.	119	100.00%	
1.3	Pier Caps	105	No.	105	100.00%	
1.4	Portal Beams- Land	6	No.	6	100.00%	
1.5	Pier Head Segments -Land	42	No.	42	100.00%	
2	Permanent Bridge Works - Intertidal & CRZ Zone					
2.1	Piles	280	No.	280	100.00%	
2.2	Pile Caps	72	No.	72	100.00%	
2.3	Piers	72	No.	72	100.00%	
2.4	Pier Caps	18	No.	18	100.00%	
2.5	Pier Head Segments	54	No.	54	100.00%	
3	Permanent Bridge Works - Marine Zone					
3.1	Piles	504	No.	504	100.00%	
3.2	Pile Caps	120	No.	120	100.00%	
3.3	Piers	120	No.	120	100.00%	
3.4	Pier Caps	48	No.	48	100.00%	
3.5	Pier Head Segments	74	No.	74	100.00%	
4	Permanent Bridge Works - Total					
4.1	Open Foundation	113	No.	113	100.00%	
4.2	Piles	784	No.	784	100.00%	
4.3	Pile Caps	192	No.	192	100.00%	
4.4	Piers	311	No.	311	100.00%	
4.5	Pier Caps/ Portal Beams	177	No.	177	100.00%	
4.6	Pier Head Segments	170	No.	170	100.00%	
5	Precast Segments					
5.1	Segment Casting	3132	No.	3132	100.00%	
5.2	Segment (Span) Erection + Cast-in-Situ Slabs	272	No.	272	100.00%	
6	OSD Structural Steel					
6.1	Fabrication	34726	MT	34,726	100.00%	
6.2	Assembly (for Large Block)	34726	MT	34726	100.00%	
6.3	OSD Span Erection	32	No.	32	100.00%	
7	Crash Barrier					
7.1	Crash Barrier	36559	Rmt	31391	85.86%	

2.6.3 Package-3 Physical Progress till 30th September

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1	Permanent Bridge Works					
1.1	Open Foundations	221	No.	221	100.00%	
1.2	Piles	24	No.	24	100.00%	
1.3	Pile Caps	4	No.	4	100.00%	
1.4	Piers	242	No.	242	100.00%	
1.5	Pier Caps	189	No.	189	100.00%	
1.6	Segment Casting	834	No.	834	100.00%	
1.7	Segment (Span) Erection	59	No.	59	100.00%	
1.8	Cast in-situ Slab	108	No.	108	100.00%	
1.9	Rail Overbridge (ROB) Span	20	No.	20	100.00%	
1.10	Crash Barrier	14500	Rmt	12900	89%	

2.6.4 Package-4 (ITS) Progress till 30th September 2023

1. Design & Drawings submission is in progress.
2. Geotechnical Investigation for Sub admin building & Service Road is completed.
3. Physical Progress till 30th September 2023

Activity		Total Scope * (Approx)	Unit	Plan For Sep 2023	Achieved for Sep 2023	Shortfall in Sep 2023	% Of Achieved Works Against the Planned in Sep
Food Plaza- 1	GF Block work	125	Cum	100	60	40	60%
	GF Plastering	1240	Sqm	100	40	60	40%
	FF RCC Columns	38	Nos	38	38	0	100%
	FF slab staging	4443	Cum	4443	4443	0	100%



	FF Slab casting	277	Cum	277	277	0	100%
Food Plaza-2	GF Block work	125	Cum	125	125	0	100%
	GF Plastering	1240	Sqm	500	395	105	79%
	FF RCC Columns	38	Nos	38	38	0	100%
	FF Slab Staging	4543	Cum	4543	4543	0	100%
	FF Slab casting	264	Cum	264	264	0	100%
Taper road	Subgrade	25520	Cum	200	0	0	0%
	Granular	6660	Cum	250			
	Dry Lean	6660	Cum	250	141	109	56%
	Pavement Quality	10208	Cum	1600	1315	285	82%
Gavhan MAB	SF slab staging	3090	Cum	3075	3075	0	100%
	SF slab beam bottom	625	Rm	590	590	0	100%
	SF slab casting	185	Cum	185	185	0	100%
	GF block work	160	Cum	160	160	0	100%
	GF Plastering	2600	Sqm	1700	1355	345	79%
Shivaji Nagar Sub- Admin Building	GF Staging for slab	1044	Cum	1044	1044	0	100%
	GF Decking	328	Sqm	328	328	0	100%
	GF Rebar for slab	14	Rm	14	14	0	100%
	GF Slab Casting	92	Cum	92	0	0	0%
Sewri Sub-Admin Building	GF – Block work	67	Cum	40	25	0	62%
	FF RCC Columns	20	Nos	20	20	0	100%
	FF slab Staging	1044	Cum	1044	1044	0	100%
	FF Slab casting	96	Cum	96	96	0	100%

Please refer Attachment 9 - Site Progress Photos showing the development of the project.

2.7 Health & Safety and Environment (HSE)

The HSE Plans have been submitted by the respective construction agencies for the Packages which are being monitored by the GC on a regular basis.

2.7.1 Package-1 Safety Report

S No.	Description	Unit	Jul-Aug-Sept 2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	2543	2,736
2	Man-Days Worked	Days	319,397	8,238,845
3	Man-Hours Worked	Hours	2,555,182	69,418,757
4	Accident-Free Man Hours	Hours	2,555,182	6,190,379
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	7
6	Fatality Cases.	Fatalities (FAT)	0	8
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	0	8
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	0	10
9	Restricted Work Medical Case	RWMC (#Incidents)	0	0
10	Medical Treatment Cases	MTC (#Incidents)	0	2
11	First Aid Cases.	FAC (#Cases)	5	343
12	Near Miss Incidents.	NMI (#Incidents)	2	150
13	Dangerous Occurrences.	DO (#Numbers)	1	7
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	2
15	Man-Hours Lost	Hours	728	395,464
16	Man-Days Lost	Days	91	49,442
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	0	0.23
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	110	755
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	0	0.21
20	Toolbox Talks	Sessions	9713	184,361
21	Safety Walk down Inspections (Joint & CFT)	Numbers	20	320
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	128	4,554
23	Total Observations Raised (Safety)	Numbers	3253	99,892
24	Health & Hygiene Inspections	Numbers	12	128
25	Total Observations Raised (Health & Hygiene)	Numbers	34	952
26	Training Sessions done for Offices & Sites	Sessions	90	3,869
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	1441	53,305
28	Contractor Safety Committee Meetings	Numbers	3	48
29	Critical Excavations	Numbers	0	86
30	Pre-employment Medical check-ups	Persons	1997	51,198
31	Safety Inductions completed	Persons	1993	53,081
32	Mock drills Conducted	Numbers	3	45
33	Contractor's Internal Audits Conducted	Numbers	3	60



2.7.2 Package – 2 Safety Report

S No.	Description	Unit	Jul-Aug-Sept 2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	1924	1,795
2	Man-Days Worked	Days	148,127	3,418,706
3	Man-Hours Worked	Hours	1,629,397	37,590,947
4	Accident-Free Man Hours	Hours	1,629,397	8,784,107
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	0
6	Fatality Cases.	Fatalities (FAT)	0	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	0	13
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	0	13
9	Restricted Work Medical Case	RWMC (#Incidents)	0	8
10	Medical Treatment Cases	MTC (#Incidents)	1	15
11	First Aid Cases.	FAC (#Cases)	4	208
12	Near Miss Incidents.	NMI (#Incidents)	18	466
13	Dangerous Occurrences.	DO (#Numbers)	0	20
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	
15	Man-Hours Lost	Hours	0	6,716
16	Man-Days Lost	Days	0	821
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	0	0.330
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	0	22
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	0.0	0.958
20	Toolbox Talks	Sessions	1,724	17,618
21	Safety Walk down Inspections (Joint & CFT)	Numbers	14	222
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	296	2,882
23	Total Observations Raised (Safety)	Numbers	1,323	29,899
24	Health & Hygiene Inspections	Numbers	12	12
25	Total Observations Raised (Health & Hygiene)	Numbers	0	
26	Training Sessions done for Offices & Sites	Sessions	131	1,873
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	2688	35,948
28	Contractor Safety Committee Meetings	Numbers	3	63
29	Critical Excavations	Numbers	-	0
30	Pre-employment Medical check-ups	Persons	350	19,596
31	Safety Inductions completed	Persons	350	19,783
32	Mock drills Conducted	Numbers	3	56
33	Contractor's Internal Audits Conducted	Numbers	-	

2.7.3 Package – 3 Safety Report

S No.	Description	Unit	Jul-Aug-Sept 2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	209	385
2	Man-Days Worked	Days	26,442	977,541
3	Man-Hours Worked	Hours	211,541	7,820,327
4	Accident-Free Man Hours	Hours	211,541	2,006,576
5	Fatal Accidents (Reportable)	Incidents (Nos.)	-	0
6	Fatality Cases.	Fatalities (FAT)	-	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	-	3
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	-	3
9	Restricted Work Medical Case	RWMC (#Incidents)	-	0
10	Medical Treatment Cases	MTC (#Incidents)	-	0
11	First Aid Cases.	FAC (#Cases)	-	134
12	Near Miss Incidents.	NMI (#Incidents)	-	53
13	Dangerous Occurrences.	DO (#Numbers)	-	1
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	-	0
15	Man-Hours Lost	Hours	-	2,336
16	Man-Days Lost	Days	-	292
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	-	0.38
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	-	37.33
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	-	0.38
20	Toolbox Talks	Sessions	284	9,547
21	Safety Walk down Inspections (Joint & CFT)	Numbers	12	229
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	48	287
23	Total Observations Raised (Safety)	Numbers	295	13,003
24	Health & Hygiene Inspections	Numbers	3	113
25	Total Observations Raised (Health & Hygiene)	Numbers	6	423
26	Training Sessions done for Offices & Sites	Sessions	48	676
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	835	12,785
28	Contractor Safety Committee Meetings	Numbers	3	59
29	Critical Excavations	Numbers	0	11
30	Pre-employment Medical check-ups	Persons	217	10,237
31	Safety Inductions completed	Persons	217	10,237
32	Mock drills Conducted	Numbers	3	56
33	Contractor's Internal Audits Conducted	Numbers	-	19



2.7.4 Package-4 Safety Report

S No.	Description	Unit	Jul-Aug-Sept 2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	340	206
2	Man-Days Worked	Days	31,069	75267
3	Man-Hours Worked	Hours	248,552	602,136
4	Accident-Free Man Hours	Hours	248,552	602,136
5	Fatal Accidents (Reportable)	Incidents (Nos.)	-	0
6	Fatality Cases.	Fatalities (FAT)	-	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	-	0
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	-	0
9	Restricted Work Medical Case	RWMC (#Incidents)	-	0
10	Medical Treatment Cases	MTC (#Incidents)	-	1
11	First Aid Cases.	FAC (#Cases)	-	3
12	Near Miss Incidents.	NMI (#Incidents)	3	6
13	Dangerous Occurrences.	DO (#Numbers)	-	0
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	-	0
15	Man-Hours Lost	Hours	-	0
16	Man-Days Lost	Days	-	0
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	-	0.000
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/ MMHr	-	0.000
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	-	1.661
20	Toolbox Talks	Sessions	497	1144
21	Safety Walk down Inspections (Joint & CFT)	Numbers	11	29
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	26	50
23	Total Observations Raised (Safety)	Numbers	383	746
24	Health & Hygiene Inspections	Numbers	3	5
25	Total Observations Raised (Health & Hygiene)	Numbers	17	30
26	Training Sessions done for Offices & Sites	Sessions	58	159
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	1,265	3585
28	Contractor Safety Committee Meetings	Numbers	1	7
29	Critical Excavations	Numbers	-	1
30	Pre-employment Medical check-ups	Persons	380	658
31	Safety Inductions completed	Persons	235	658
32	Mock drills Conducted	Numbers	1	4
33	Contractor's Internal Audits Conducted	Numbers	0	2

3.0 BENEFITS DERIVED FROM THE PROJECT (EFFECTIVENESS)**3.1 Operational and Physical Condition**

(This section will be developed when the operational plan is available)

Facilities	Description of condition	Problems, its Background and Remedial Action Plan
(P/R and PCR)	(P/R and PCR)	(P/R and PCR)

3.2 Precautions (Measures to be adopted/ Points which require special attention)

Original Issues and Counter measure(s)	Actual Issues and Counter measure(s)
3.2.1 General Issues 1. Toll Arrangement/ Toll Rate Fixed toll rate as per the type of vehicle will be levied for the road users after the completion of the Project. An appropriate tolling policy/ rates will be finalized in consultation with the state government prior to the completion of Civil works. 2. Operation and Maintenance MMRDA proposes to appoint separate agencies for Operation & Maintenance of the bridge and for Toll Management System. Both the agencies for O & M and Toll Management System may be appointed through open tendering process. Overall monitoring of the two agencies would be done by MMRDA in-house through a separate cell which could be constituted for the purpose. MMRDA has confirmed to allocate an adequate budget engaging the Contractors.	(P/R and PCR) Appropriate Tolling Policy/ Rates finalization is in progress. A single Operation and Maintenance Contractor finalization is in progress.
3.2.2 Environmental and Social Consideration a. CRZ Clearance i. Supplemental EIA has been approved by MMRDA and disclosed on the website of JICA. A supplemental EIA report has been disclosed also on the website of MMRDA. ii. Furthermore, renewed CRZ Clearance has been obtained in January 2016. iii. In accordance with the conditions for CRZ Clearance, appropriate measures shall be taken, and necessary budget shall be secured by MMRDA.	(P/R and PCR) <ul style="list-style-type: none"> • MMRDA has disclosed Supplemental EIA & SIA on MMRDA website. • The renewed CRZ clearance was granted on 25/1/2016 from MoEF&CC and the approval conditions have been imposed on the Contractors as the Employer's requirements. MMRDA has actively monitored the compliances of the approval conditions and maintained them throughout the construction phase. • MMRDA appointed Mangroves & Marine Biodiversity Foundation for bird monitoring and implementation of Flamingos and bird monitoring program for the MTHL project during the construction as well as the long-term monitoring after the construction.



	<ul style="list-style-type: none"> • Rs 91.42 Crore has been transferred to Mangroves & Marine Biodiversity Foundation, Mumbai for the development & conservation of mangrove area and its afforestation. Such funds will be managed by the Mangrove Foundation of Maharashtra State. • As per the renewed CRZ clearance condition, IIT Mumbai has been appointed for the DPR study to develop a Mahul creek Effluent Treatment Plant (ETP). Rs 4.98 Crore was secured for IIT services. The Draft DPR has been reviewed and approved. • Proposal of extension for CRZ clearance submitted vide reference no MCZMA 2022/08/CR-246/3719 dated 4th Aug-2022. (Please refer Annexure-3). • The project has received CRZ extension upto January 2026.
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b. Required Permits

The Permits to be obtained by MMRDA/ Contractors and the present status is given in the following Table.

Table 3.2.2 Present Status of some Important Permits

Clearance Required	Approving Authority	Responsible Organization	Obtained by when	Remark /Status
Mangrove Cutting	Hon. Bombay High Court	MMRDA/ Contractor	Approval received from Hon. Bombay High Court on 28 th Nov 2016	Mangrove cutting operation was completed with full compliance and as of now, no further follow up work is required.
Tree Cutting /Transplantation	Respective Tree Authorities	Contractor for respective Packages	-	<p>Pkg-1: Tree Cutting/ Transplantation permission from the Garden Dept., MCGM obtained on 24th Dec 2020.</p> <p>Pkg-2: Tree Cutting/ Transplantation permission obtained & completed.</p> <p>Pkg-3: Forest Department issued a concurrence on 19/05/2019. CIDCO's permission for Tree Cutting/ Transplantation obtained on 25th Nov 2019.</p>
Consent to Establish	Maharashtra Pollution Control Board	Contractor for respective Packages	Pkg-1-18.07.2018 Pkg-2-16.08.2018 Pkg-3-29.05.2019	

3.3 Environmental and Social Impacts

Major environmental and social impacts have occurred during project implementation (e.g. involuntary resettlement, poverty reduction, impacts on the natural environment).

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
<p>1. Establishment of Effective Environmental and Social Cell in PIU</p> <p>MMRDA confirmed that Social Development Cell (2 Officers), Land Cell (3 Officers), and Environmental Cell (2 Officers) had been set up.</p>	<p>Cell is established by MMRDA (Annexure III, Organization chart)</p>
<p>2. Rehabilitation and Land Acquisition Issues</p> <p>a. Affected Area and Population</p> <p>Due to the Project, 1282 non-titleholders will be involuntary resettled, and 108.4379 ha of land will be handed over by CIDCO.</p>	<p>Sewri: Involuntary resettlement in Sewri section has been further validated by Social Development Cell of MMRDA. Out of 297 Project Affected Households (PAHs) have given consents as follows:</p> <ul style="list-style-type: none"> • 164 PAHs Kanjurmarg for residential • 25 PAHs Kanjurmarg for commercial • 7 PAHs (Satsangi Plot) Kanjurmarg for Commercial • 1 PAHs (commercial to residential) for Bhakti Park • 100 PAHs HDIL Kurla for residential <p>Navi Mumbai: CIDCO has been finalizing the land acquisition closely monitored by Land Cell of MMRDA.</p> <p>CIDCO has possessed 106.3542 ha of land and handed over to MMRDA, except private land of 2.0837 ha.</p> <p>0.3937 ha land is under acquisition out of balance 2.0837 ha land. CIDCO is planning to acquire the balance ROW land of with the help of Collector, Raigad.</p>
<p>b. Entitlement Policy</p> <p>MMRDA prepared the entitlement matrix for resettlement of non-title holders in Sewri, which meets the Resettlement and Rehabilitation Policy for Mumbai Urban Transportation Project (1997, amended in 2000) and JICA guidelines for Environmental and social considerations (2010) ("Guidelines") (Attachment 2-5).</p>	<p>There have been no changes during the enforcement. As per the Attachment 2-5 of JICA MoD, MMRDA has committed to enforce the agreed/ approved policy.</p>



Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
<p>c. Compensation to Project affected Fishermen</p> <p>Detailed baseline survey will be undertaken by MMRDA in order to identify fishermen who are affected by the Project. Based on the result of the baseline survey, MMRDA will compensate them in accordance with compensation policy prior to the construction. Monitoring will be conducted by MMRDA with assistance of the Consultant to gasp the exact impact during construction and operation phase.</p>	<p>Updated Attachments 2-8 and 2-10 are enclosed in the report.</p>
<p>d. Implementation Schedule</p> <p>The Implementation schedule for land acquisition, resettlement and rehabilitation is attached as per Attachment 2-10.</p>	<p>Updated Attachment 2-10 is enclosed in the report.</p>
<p>e. Grievance Redressal Mechanism</p> <p>Grievance Redressal Committee ("GRC") set under MMRDA will deal with grievances raised by PAPs in Sewri and fishermen to be affected by the Project. Any grievances raised by PAPs whose land is acquired by CIDCO shall be resolved by CIDCO.</p>	<p>Sewri: FLGRC (Field Level Grievance Redressal Committee) and SLGRC (Senior Level Grievance Redressal Committee) were set as per the RAP and in operation.</p> <p>Compensation Committee has been constituted to address the issues of Compensation to Lease Holders at Sewri.</p> <p>Fishermen: GRC for resolving grievances of the fisherfolk was set up as per the compensation policy and is in operation.</p>
<p>f. Internal Monitoring</p> <p>Internal Monitoring of the Resettlement Action Plan (RAP) implementation will be conducted by MMRDA in accordance with the RAP with necessary assistance of the consultant. RAP Internal Monitoring Form (Attachment 2-8) will be submitted to JICA on a quarterly basis as a part of PSR during the RAP implementation.</p>	<p>Internal Monitoring updates are mentioned in Attachment 2-8.</p>
<p>g. Qualitative Independent Evaluation</p> <p>An Independent Evaluation Agency will be hired by MMRDA for evaluation of RAP implementation. An external</p>	

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
evaluation report will be submitted to MMRDA at mid-term and end-term. MMRDA would submit the evaluation report to JICA in a timely manner.	Updated Attachment 2-10 is enclosed in the report.
h. RAP Implementation Budget The amount of estimated resettlement and compensation budget is Rs.906.26 Cr MMRDA informed to the JICA Mission that RAP implementation cost would be borne by MMRDA and ensured sufficient and timely allocation of funds for smooth implementation.	As updated in MOD dated 03/09/2019 for MTHL- II, the base cost Budget towards RAP Implementation is updated as Rs 1129.3 Cr.
i. Environmental Management Plan ("EMP") The mitigation measures against air pollution, waste, noise, and water pollution etc. shall be taken during construction and operation phase. Mitigation measures such as installation of noise barrier, appropriate waste management, etc. have been prepared by MMRDA. The mitigation measures are listed in the EMP matrix. (Attachment 2-1). During the detailed design stage, MMRDA, with assistance of the Consultant, will update the EMP, as necessary.	EMP will be updated, if required, in due course of construction activities/progress.
j. Environmental Monitoring Plan ("EMoP") MMRDA takes overall responsibility for implementation of EMoP. During construction, environmental monitoring will be carried out by contractors under supervision by Construction Supervision consultant. The result shall be reported to the JICA India Office on a quarterly basis as a part of Progress Status Report (PSR) by filling in the Reporting Form of Environmental Monitoring Result. (Attachment 2-4). After completion of the construction, EMoP shall be implemented by MMRDA, and the results shall be submitted to the JICA India Office semi-	Environmental Monitoring Plan with the package wise budgeted cost is reported in Attachment 2-3 . Environmental Monitoring Results during the construction phase are reported in Attachment 2-4 .

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
annually until two years after complementation of construction. The required amount of estimated environmental monitoring budget is borne by MMRDA.	
k. Long Term Bird Monitoring MMRDA committed to conduct the long-term monitoring of birds and its habitat in Sewri mudflats with the assistance of hired bird expert. During the long-term monitoring, MMRDA will share information and receive advice from external experts including the one from NGOs and civil society.	<ul style="list-style-type: none"> MMRDA has entrusted the work of bird monitoring and implementation of Flamingos and birds related mitigation measures & bird monitoring program to Mangrove and Marine Biodiversity Foundation. Rs. 31.92 Crore deposited to Mangrove foundation, Mumbai for periodical disbursement to BNHS.

3.4 Qualitative and Quantitative Data of Monitoring Indicators

Operation and Effect Indicator EIRR and/ or FIRR

Supporting data for Computing EIRR and/ or FIRR

Indicators	Original (Year 2015)	Target (Year 2024) 2 Years After Commercial Operation
Average Annual Daily Traffic (PCU/ day)	-	47,400
Daily Average Travel Time (min) * 1	61 min	15.8 min
Number of Users (Persons/ year) * 2	-	46,077,504
Cargo Volume (tons/ year) * 3	-	13,511,759

*1 Section on Sewri – Chirle

*2 Assumptions: average passengers of car and taxi (2.6 persons), bus (37.2 persons) based on JICA study. Number of passengers of LCV, HCV and MAV is assumed as 1 person each.

*3 Assumptions: the maximum capacity of respective vehicle (LCV: 1 ton, HCV and MAV: 15 tons) is used for estimation.

EIRR	Original: 15.4% Cost: Project cost (excluding Price Escalation, Tax and Duties and Administration cost) O&M cost, Land Acquisition Benefit: Travel Time cost and Vehicle Operation cost Project Life: 32 Years	Actual: (PCR) _____% Cost: Benefit: Project Life: Attachment(s): Supporting data for computing EIRR
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FIRR	Original: 1.5% Cost: Project Cost, O&M cost, Land Acquisition cost Benefit: Toll Revenue Project Life: 32 Years	Actual: (PCR) _____%
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3.5 Monitoring Plan for the indicators

Monitoring Methods, Section(s)/ department(s) in charge of monitoring, frequency, the term and so forth are given below:

Original: (P/M and PCR)

Monitoring Organization

PIU shall be In-Charge of Monitoring activities for the Project.

Submission of QPR and PCR

The timely submission of the following documents is required by MMRDA.

a. Quarterly Progress Report (QPR): The progress report for the Project should be submitted by MMRDA to JICA on quarterly basis, not later than 30 days after the concerned quarter, in the form of Project Status Report (PSR) attached hereto as per Annex I; Updated status land Acquisition, milestone achieved with respect to Action Plan with Timetable, the monitoring form for environmental and social consideration should also be appended to the PSR. In addition, MMRDA shall also forward the Monthly & Quarterly Progress Reports (including S- Curve Chart) prepared by the Consultant to JICA India Office on regular basis till project completion.

b. Project Completion Report (PCR): A project completion report should be submitted by MMRDA to JICA promptly, but in any event not later than six months after completion of the Project, in the form of Project Status Report (PSR) attached hereto as per Annex I.

Actual: (P/R and PCR)

Monitoring Organization

PIU for MTHL has been established for monitoring the Project.

Submission of QPR and PCR

This QPR No. 26 is submitted for the period of 1st July to 30th Sep 2023.

3.6 Achievement of the Project Objective

(PCR)

4.0 OPERATION AND MAINTENANCE (O&M) (SUSTAINABILITY)

4.1 O&M and Management

- Organization Chart of O&M
- Operational and maintenance system (structure and the number, qualification and skill of staff or other conditions necessary to maintain the outputs and benefits of the project soundly, such as manuals, facilities and equipment for maintenance, and spare part stocks etc



Original: (P/M)

Operation & Maintenance, Toll Management and ITS

MMRDA proposes to engage two separate agencies for O&M and Toll Management System. Though MMRDA will not directly carry out O&M, the overall monitoring over the O&M agency will be the responsibility of MMRDA. O&M Budget will be allocated by MMRDA. O&M and increase in toll rate will be done in accordance with the NHAI's manuals such as "NHA Works manuals".

Actual: (PCR)

4.2 O&M Cost and Budget

- The actual annual O&M cost for the duration of the project, as well as the annual O&M budget.

(PCR) This will be reported when the outcome of the above work-study is available.

5.0 EVALUATION

5.1 JICA and Borrower / Executing Agency performance

JICA:

(PCR)

Borrower/ Executing Agency:

(PCR)

5.2 Overall Evaluation

Please describe your evaluation on the overall outcome of the project.

(PCR)

5.3 Lessons Learnt and Recommendations

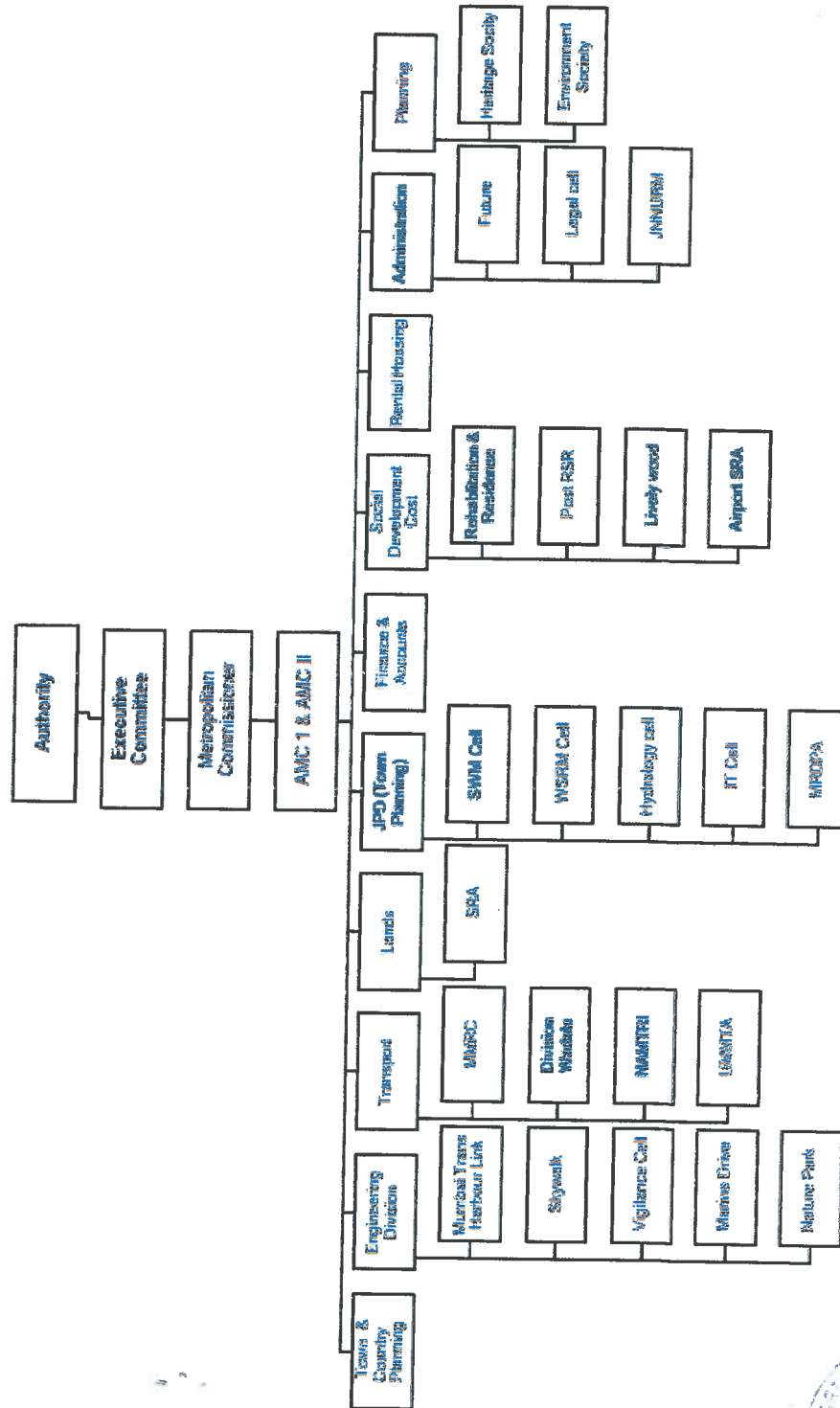
Please raise any lessons learned from the project experience, which might be valuable for the future JICA assistance or similar type of projects, as well as any recommendations, which might be beneficial for better realization of the project effect, impact and assurance of sustainability.

(PCR)

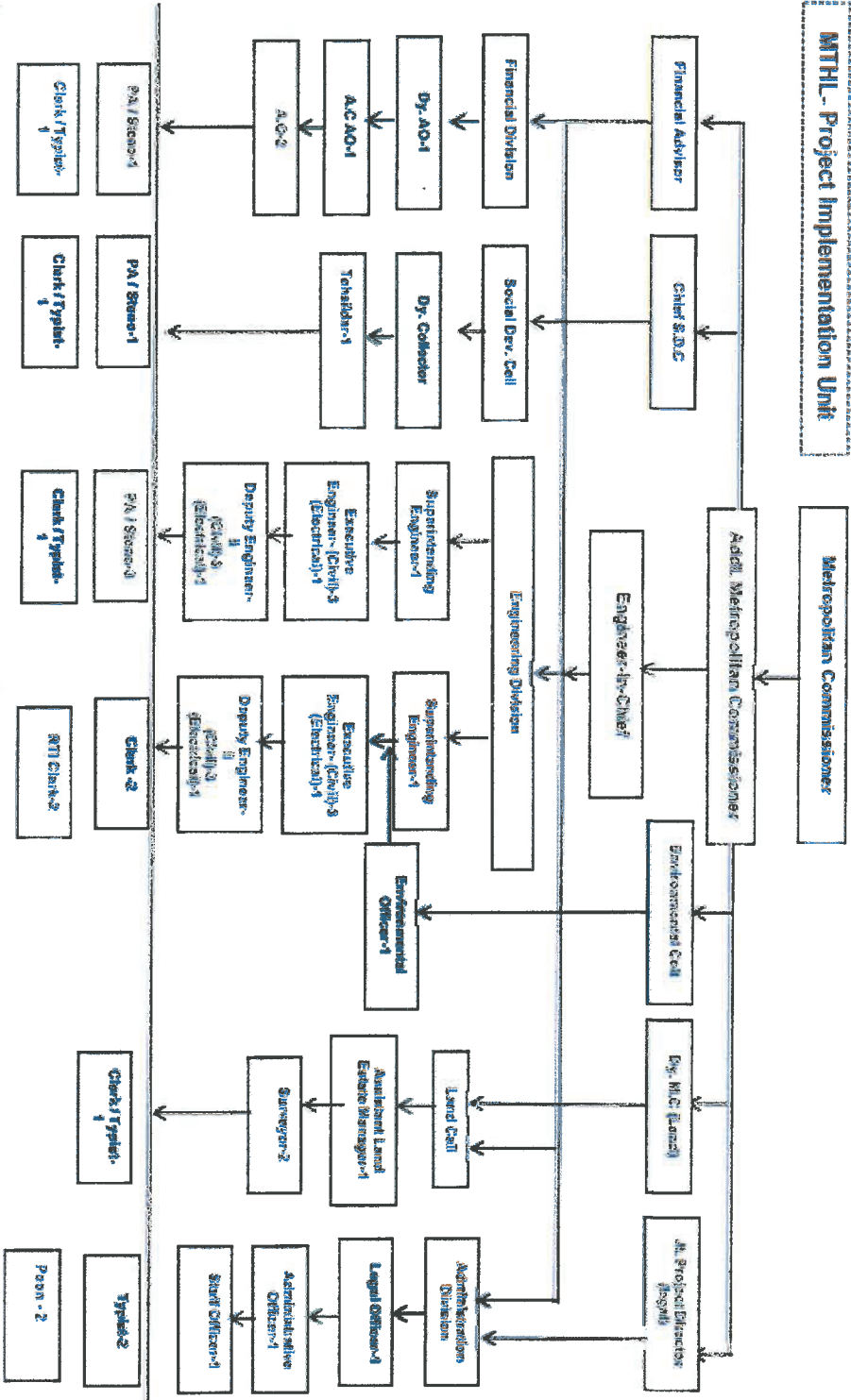
Attachment 1- MMRDA & PIU Organization Chart



MMRDA Organization chart



MTHL- Project Implementation Unit



Attachment 2- Environmental & Social Impacts

Attachment 2-3 – Envi. Monitoring Plan with Package-wise Estimated Cost

Attachment 2-4 – Environmental Monitoring Result Reporting Form

Attachment 2-6 – MTHL Land Acquisition Status

Attachment 2-8 – RAP Internal Monitoring Form

Attachment 2-10 – Schedule of the RAP Implementation

Environmental Monitoring Plan with Package wise Estimated Cost

Category	No.	Impacted Item on HCA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pkg.1 (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)	Remarks
Pollution	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃ , CO, (6 Items)	National Ambient Air Quality Standards, 2009	1. Sewri & Sewri bay area for package I	Fortnightly at all locations except 2 locations each near Batching plants	1,800,000	15,000,000	1,800,000	742,500	17,542,500	National Ambient Air Quality Standards (NAAQS) by Central Pollution Control Board (CPCB)	P1 contractor team is conducting Ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's requirement.
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year						(Standard for 24hrs: Industrial and Residential/ Ecological Sensitive area)	P 2 contractor Monitoring plan has been designed as per EIA of 2015
					3. Gavhan & Chirle for package III	Fortnightly only for 3 months (Jan-2019 to Mar-2019). Then quarterly monitoring as per MOEF and CPCB norms						SO ₂ : 80 / 80µg/m ³	P3 contractor team is conducting Ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's requirement.
												NO ₂ : 80 / 80µg/m ³	P 1 received Consents CTE & CTO from MPCB and they are following MPCB frequency in addition to frequency set by Environment Expert from GC. The NAAQ standards are showing High rate as that is the usual procedure. The frequency of monitoring is set by us which varies for different parameters as either Statutory requirements or as required by us to ensure we have sufficient data in hands if there are additional claims for Compensation in C5 category. Summary : Although the contract conditions for all packages were same at the time of bidding. Later modifications suggested by GC were not accepted by P 2. P1 and P3 accepted the modifications and hence the difference. Second point is P 1 carrying out monitoring as per the obatiend CTE and CTO. Both other packages have applied for CTE but haven't obtained it yet. So we expect the monitoring frequency would change after obtaining CTE.
	2	Water pollution	pH, BOD, DO, Turbidity and O&G	IS / AWWA	1. Sewri & Sewri bay area for package I	Quarterly	810,000	2,400,000	810,000	0	3,210,000	Marine water quality Standards - Class SW-IV Harbour Waters (MPCB)	Water Pollution not applicable for Pkg. 3
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year						pH : 6.5-9	
					3. Gavhan & Chirle for package III	Not applicable						DO: 3 mg/l	
												Turbidity: 30 NTU	
	3	Waste	Volume of waste soil, cutting tree and domestic garbage	Volumetric	1. Sewri & Sewri bay area for package I	Daily	500,000	299,200,000	500,000	600,000	300,300,000		The cost of waste disposal for P1 includes C&D waste, Pile muck etc. from all areas like, interchange, intertidal and marine. The disposal location is at MCGM approved location Bhayandarpada, Thane.
												PM ₁₀ : 100 / 100µg/m ³	
												PM _{2.5} : 60 / 60µg/m ³	
												O ₃ : 180 / 180µg/m ³	
												CO: 0.4 / 0.4mg/m ³	



Category	No.	Impacted Item on JICA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pkg.1 (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)	Remarks
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year						Municipal Solid Waste Management Rules, 2013 Generated waste shall be reused or disposed at designated site. Sites have been identified and the location for Pkg. 1 is at Bhayandar Pada in Thane. For Pkg. 2 & 3 is in Navi Mumbai at Pushpak Node near "Teen Taki junction" along the Amar Marg.	P2 contractor has considered only Domestic garbage with respect to CIDCO. Other wastes are not considered. Construction wastes will be
					3. Gavhan & Chirle for package III	Once site clearing work/execution part of work start.							
	4 and 8	Soil Contamination/ sedimentation	Heavy Metals & Oil & Grease (5-10 items shall be selected from Soil pollution standards)	IS / Methods Manual Soil Testing in India by Department of Agriculture and Cooperation, January 2011	1. Sewri & Sewri bay area for package I 2. Nhava temporary bridge & casting yard in Gavhan for package II 3. Gavhan & Chirle for package III	1. Muck: 1 Time / Year 2. Sediments: 4 Times / Year *If any spillage/ leakage take place from chemical, fuel storage area. *One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Storage area only	150,000	1,500,000	150,000	100,000	1,750,000	Soil Pollution Standard in India (MOEF) Cd: 0.01mg/l Lead: 0.01mg/l Chromium (VI): 0.05mg/l Arsenic: 0.01mg/l T-Mercury: 0.0005mg/l Copper: 125mg/kg (some items shall be selected from totally 25 standards items)	
	5	Noise and vibration	Ambient and road side noise (dB(A) _{L_{eq}})	IS Standard	1. Sewri & Sewri bay area for package I 2. Nhava temporary bridge & casting yard in Gavhan for package II 3. Gavhan & Chirle for package III	Fortnightly 2 Times / Year Fortnightly	150,000	54,000	150,000	369,000	573,000	-Construction Noise; 85dB(A) -Ambient Noise Standards in India (dB (A) _{L_{eq}}) 1. Industrial Area Day Time: 75 (6-22hr) Night Time: 70 (22-6hr) 2. Commercial Area: Day Time: 65 (6-22hr) Night Time: 55 (22-6hr) 3. Residential Area: Day Time: 55 (6-22hr) Night Time: 45 (22-6hr) 4. Silence Zone Day Time: 50 (6-22hr) Night Time: 40 (22-6hr)	
			Vibration (dB L10 or mm/sec)		1 Location Gavan area for package III	Half yearly	75,000	0	75,000	400,000	475,000	- Construction vibration 75dB -Vibration Standards roadside 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) 2. Residential Area: Day Time: 65 (7-20hr) Night Time: 60 (20-7hr)	Not applicable for Pkg. 1
	9 and 10	Protected Area /Ecosystem	1. Monitoring of mudflat conditions including fauna-flora 2. Monitoring of Cutting Tree and replantation/ transplanting area 3. Monitoring of Mangrove Plantation area appointed by MoEF	Ocular inspection and quantitative survey 1-1. Fauna-Flora Line-Point census and record number and appeared species	Along MTHL alignment and mangrove replant area for Package I Along MTHL alignment and mangrove replant area for package II Not applicable for Package III	Quarterly during the construction Period 4 Times / Year	6,500,000	7,200,000	6,500,000	0	13,700,000	Significant impacts are not caused by the project Note)	Not applicable for Pkg. 3



Category	No.	Impacted Item on JICA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pkg.1 (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)	Remarks
Natural environment			4. Monitoring of sedimentation soil and ecological parameter (18 items on Supplemental EIA Table 6.1.15 for soil and 7 items such as 1) Net primary productivity, 2) Chlorophyll-a, 3) Phosphate, 4) Nitrate, 5) Nitrite, 6) Particulate Organic Carbon, 7) SiO ₂)	1-2: Mangrove density and community survey								Detailed monitoring plan will be setup during basic design stage	
				1-3: Benthos Survey									
				2-1: Cutting trees confirmation								Standard for Soil; Supplemental EIA Table 6.1.15	
				3-1: Mangrove survey in the replanted area								Standard for Ecological Parameter:	
												• Net primary Productivity	
												<1,500 mgC/m ³ /day at surface	
												• Chlorophyll-a	
												<4mg/m ³	
												• Phosphate: 0.1-90µg/l	
												• Nitrate: 1.0-500µg/l	
Social environment	11	Hydrology	Flooding situation	Flood level measurement during high precipitation periods	Not applicable for Package I		350,000	0	350,000	0	350,000	Project activities and structures does not cause flooding and impacts on tidal conditions	Not applicable for Pkg. 1 & 3
					2 Locations (CRZ at Sewri and Shivaji Nagar) for Package II	4 Times / Year							
					Not applicable for Package III								
	12	Topography and Geology	Conditions in embankment area	Visual survey about Stability of embankment	Not applicable for Package I		115,000	0	115,000	0	115,000	Embankment shall be stabilized without any landslide and cracks	Not applicable for Pkg. 1 & 3
					Interchange in Shivaji Nagar for Package II	4 Times / Year							
					Not applicable for Package								
	13	Local economy such as employment and livelihood			Affected area		As per Actuals						
	14	Local conflict of interests	Construction worker's township	Confirmation of workers list from contractor	2 Locations (camp site in Sewri and Shivaji Nagar) for Package II	2 Times / Year	125,000	0	125,000	0	125,000	Employment opportunity shall be provided fairly	
	15	Infectious diseases such as HIV/AIDS	Number of infected patient	Confirmation of health check list from contractor	2 Locations	4 times / year x 4.5 years	525,000	0	525,000	0	525,000	Infection disease rate shall not be caused by the project	
	16	Labour Environment	Construction worker's condition	Confirmation of safety devices and conditions via interviews	2 Location (camp site in Sewri and Shivaji Nagar) for Package II	2 times / year	500,000	0	500,000	0	500,000	"Building And Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996", "The building and other construction worker's welfare cess Act, 1996" and international standards such as "IFC Performance Standard 2 Labor and Working Conditions"	
Other	17	Accidents	Number of accidents	Confirmation of accidents list from local government and State Traffic Police Department	2 Locations (camp site in Sewri and Shivaji Nagar) for Package II	4 Times / Year	400,000	0	400,000	0	400,000	Any accidents are not caused by construction	
Total							8140500	325,354,000	12,000,000	2,211,500	339,565,500		



This form is prepared for reporting the monitoring results to JICA India Office. Only minimum required parameters are included in this form, and not all parameters in EMoP are covered.

Attachment 2-4

The Project for Construction of
Mumbai Trans Harbour Link
Attachment 2-4
1. Environmental Monitoring during
Construction for 4.5 years

Monitoring Period -July to September 2023

Area	No.	Item	Parameter	Location	Frequency a year	Item and Standard	Monitoring Result				Remark - reasons why the data is exceeding standard - counter measures when the data is exceeding
							Location 1- Pkg 1	Location 2 - Package 2	Location 3- Pkg 3	Location 4	
Pollution	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5}	1. Sewri & Sewri bay area for package I	Quarterly monitoring is conducted at all locations.	National Ambient Air Quality Standards (NAAQS)	Sewri	Shivaji Nagar	Chirle		
				2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	(Standard for 24hrs: Industrial and Residential)					
				3. Gavhan & Chirle for package III	From march - 2019 onwards monitoring is conducted quarterly as per MOEF and CPCB norms	1. SO ₂ : 80µg/m ³				19	BDL- Below Detectable Limit
						2. NO ₂ : 80µg/m ³				20	
						3. PM ₁₀ : 100µg/m ³				61	
						4. PM _{2.5} : 60µg/m ³				33	
						5.CO:02mg/m3	1.10	1.3	0.76		
						6.VOCs	0.93	2.7	0.5		
	2	Water pollution	pH, BOD, DO, Turbidity and O&G	1. Sewri & Sewri bay area for package I	Quarterly	Marine water quality Standards - Class SW-IV Harbour Waters (MPCB)	Zone I	Zone II	Zone III/ Package-03		
				2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	1. pH : 6.5-9	7.6	7.5	Not applicable		
				3. Gavhan & Chirle for package III	Not applicable	2. DO: 3 mg/l	5.9	5.7	Not applicable		
						3. Turbidity: 30 NTU	8.2	8.2	Not applicable		
						4. BOD: 5 mg/l	BDL[DL=2]	BDL (DL=2)	Not applicable		
						5. O & G: 10 mg/l	BDL[DL=2]	BDL (DL=2)	Not applicable		
						6.COD	16	20	Not applicable		
	3	Waste	Volume of waste soil, cutting tree and domestic garbage	1. Sewri & Sewri bay area for package I	Daily	Municipal Solid Waste Management Rules, 2013	62.1 Tonnes for 3 months	Shivaji Nagar Camp Site	Chirle Camp Site		
				2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	Generated waste soil (t) total			NA		
				3. Gavhan & Chirle for package III	Once site clearing work/execution part of work start.	Generated cutting tree (ha) total	-	-	Tree cutting work completed and Half yearly report submitted to Client (April, 2022)		Both of forest and CIDCO area (234+75)= 309
						Generated domestic waste (t/month) total	62.1 Tonnes for 3 months	2 T/quarter	1.0 T for the quarter		



					Confirmation of adequate disposal (visual survey)	Waste is disposed through Municipal Corporation.	It is disposed through CIDCO daily.	Waste is disposed through Municipal Corporation.		
4	Soil Contamination/sedimentation	Heavy Metals & Oil & Grease	1. Sewri & Sewri bay area for package I	1. Muck: 1 Time / Year 2. Sediments: 4 Times / Year	Soil Pollution Standard in India (MOEF)	Sediment sample at Sewri	Muck Testing done in September 2021 and Reports submitted to GC.	Not applicable		Kindly check the letter No.Ref No. MTHL/ P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020
			2. Nhava temporary bridge & casting yard in Gavhan for package II		1. Cadmium: 0.01mg/l	BDL[DL=2]	BDL	-		
			3. Gavhan & Chirle for package III	*If any spillage/ leakage take place from chemical, fuel storage area. *One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Storage area only	2. total cyanide : not detected	NA	<0.005	There is no reportable Oil spillage in project		
					3. organic phosphorus: not detected	NA	8.5	One time Soil test done (Report has been submitted)		
					4. lead: 0.01mg/l	BDL[DL=0.6]	0.17	There is no huge quantity of oil storage area, Oil requirement fulfil by portable oil tanker (Indian Oil) on frequent basis. Only small quantity of Oil <1000 ltr is stored in well established oil storage area (Covered and bunded wall from all side)		Hazardous Storage is situated in low laying area at Gavan area. Due to this reason complete ground area is covered by boulders to avoid further water logging in rainy season. Therefore soil sample is impossible to taken out from in and around the Oil & chemical storage area. Same has witnessed by GC during February-2020 monitoring.
					5. chromium (VI): 0.05mg/l	Not detected	BDL	-		
					6. arsenic: 0.01mg/l or 15mg/kg (agri-land soil)	BDL[DL=1]	BDL	-		
					7. total mercury: 0.005mg/l	BDL[DL=2]	BDL	-		
					8. alkyl mercury: not detected	Not detected		-		
					9. PCBs: not detected	Not detected	BDL	-		
					10. copper: 125mg/kg (only paddy field soil)	139		-		
					11. dichloromethane: 0.02mg/l	Not detected	BDL	-		
					12. carbon tetrachloride: 0.002mg/l	Not detected	BDL	-		
					13. 1,2-dichloroethane: 0.004mg/l	Not detected	BDL	-		
					14. 1,1-dichloroethylene: 0.02mg/l	Not detected	BDL	-		
					15. cis-1,2-dichloroethylene: 0.04mg/l	Not detected	BDL	-		
					16. 1,1,1-trichloroethane: 1mg/l	Not detected	BDL	-		
					17. 1,1,2-trichloroethane: 0.006 mg/l	Not detected	BDL	-		
					18. trichloroethylene: 0.03mg/l	Not detected	BDL	-		
					19. tetrachloroethylene: 0.01mg/l	Not detected	BDL	-		
					20. 1,3-dichloropropene: 0.002mg/l	Not detected	BDL	-		
					21. thiuram: 0.006mg/l	Not detected	BDL	-		
					22. simazine: 0.003mg/l	Not detected	BDL	-		
					23. thiobencarb: 0.02mg/l	Not detected	BDL	-		
					24. benzene: 0.01mg/l	Not detected	BDL	-		
					25. selenium: 0.01mg/l	Not detected	BDL	-		
5	Noise and vibration	Ambient and road side noise (dB(A) LAeq)	1. Sewri & Sewri bay area for package I	Fortnightly	Construction area Standard 85 dB(A) daytime (Japan standard) Not construction area : Ambient Noise Standard in India (dB(A) LAeq)	Sewri (ST 200-500)(Industrial area)	Sea Section (ST5000-5500) Migratory Bird Area (no standard on sea section)	Shivaji Nagar(Commercial area)	Chirle (package-III) Commercial area	
			2. Nhava temporary bridge & casting yard in Gavhan for package II	2 Times / Year	Day time : 6-22 hr (continuous) dB(A)	69.6	68.2		63.35	
			3. Gavhan &	Fortnightly	Night time: 22-6 hr (continuous)	63.5	60.9		52.69	





Natural Environment	6	Protected Area	1. Monitoring of mudflat conditions including fauna-flora 2. Monitoring of Cutting Tree and replantation/transplation area 3. Monitoring of Mangrove Plantation area appointed by MoEF 4. Monitoring of sedimentation soil and ecological parameter (25 items on EIA main text Table 6.1.15 for soil and 7 items such as 1) Net primary productivity, 2) Chlorophyll-a, 3) Phosphate, 4) Nitrate, 5) Nitrite, 6) Particulate Organic Carbon, 7) SiO2)	Chirle for package III	Half yearly	dB(A)						
				(only sea section)			-	-		-		
				Day time : 6-22 hr (10 min during 9-17 hrs)		70.8	-	-		-		
				Night time: 22-6 hr (10 min 22-24 hr)		58.9	-	-		-		
				-		-	-	-		-		
				Note (standard values in Not construction area)		-	-	-		-		
				1. Industrial Area		-	-	-		-		
				Day Time: 75 (6-22hr)		-	-	-		-		
				Night Time: 70 (22-6hr)		-	-	-		-		
				2. Commercial Area:		-	-	-		-		
				Day Time: 65 (6-22hr)		-	-	-		-		
				Night Time: 55 (22-6hr)		-	-	-		-		
				Vibration (dB) shall be converted from mm/s to dB		1 Location Gavan area for package III	Construction area Standard 75 dB daytime (Japan standard) Not construction area : Vibration Standard (Japan Standard along the road)	Sewri (ST 200-500) (Industrial area)	Shivaji Nagar (Commercial area)	Chirle		
							Day time : 6-22 hr (continuous)	Not applicable	Not applicable	Not applicable		-
							Night time: 22-6 hr (continuous)	-				-
							Note (standard values in Not construction area)	-	-	-		-
							1. Commercial /Industrial Area	-	-	-		-
							Day Time: 70 (7-20hr)	-	-			Kindly check the letter No. Ref No. MTHL/ P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020
							Night Time: 65 (20-7hr)	-	-			
				Along MTHL alignment and mangrove replant area for Package I		Quarterly during the construction Period	Standard is not existing, but quantity and quality should not be worsen	Sewri side (ST500-5500)	Sea Section (ST5500-16000)	Shivaji Nagar side (app. ST16000-19000)	Mangrove Replantation area appointed by State Government	
				Along MTHL alignment and mangrove replant area for package II		4 Times / Year	1-1. Fauna-Flora (number of species and quantity)	Bird monitoring is being done by a separate agency BNHS	Bird monitoring is being done by a separate agency BNHS.	N/A	N/A	Birds Monitoring report by BNHS has been submitted separately
							(1) Number of species of bird	28				
							(2) Number of species of fish	25				
							(3) Estimated number of Flamingo	< 20,000				
							1-2: Mangrove density and community survey	Avicennia marina	Being carried out by Mangrove Foundation.			Mangrove foundation report has been submitted separately
							(1) Number of species of mangrove	Dominant - Avicennia sp.				
							(2) Density of mangrove (xx trees/10m x 10m)	EIA - Not disturbed.				
							1-3: Benthos Survey	Flora, fauna, phytoplankton, zooplankton, Benthos				-
(1) Number of species and quantity by species					-							

					2-1: Cutting tree confirmation	1. Tree Cutting: 407 trees (Till Sept 2023) 2. Transplanting: 500 Trees (Till Sept 2023)	20 trees were cut with approval of Forest Department on 29-10-2018. Compensatory plantation of 40 trees were done in casting yard area during the period 15-10-2020 to 18-10-2020. Maintenance of the same is being done.	Cutting of tree - 341 Transplantation - 84		
					(1) Number of cutting tree and species	407	20	341		
					3-1: Mangrove survey in the replant area	Being carried out by Mangrove Foundation	Being carried out by Mangrove Foundation.	NA		<u>Mangrove foundation report has been submitted separately</u>
					(1) Number of species of mangrove					
					(2) Density of mangrove (xx trees/10m x 10m)					
					4. Ecological Parameter					
					(1) Net primary Productivity : <1,500 mgC/m3/day at surface	500				-
					(2) Chlorophyll-a: <4mg/m3	4.5				-
					(3) Phosphate: 0.1-90µg/l	6				-
					(4) Nitrate: 1.0-500µg/l	6.1				-
					(5) Nitrite: <125µg/l	BDL[DL=2]				-
					(6) Particulate Organic Carbon: 10-100mg/m³	0.93%				-
					(7) SiO2: 10-5,000µg/l	33.86				-
	Ecosystem									
7	Hydrology	Flooding situation	Not applicable for Package I		Criteria for evaluation Project activities and structures does not cause flooding and impacts on tidal conditions	Sewri	Shivaji Nagar			
			2 Locations (CRZ at Sewri and Shivaji Nagar) for Package II	4 Times / Year	Monitoring of flooding situation	No Flooding	No Flooding			
			Not applicable for Package III							
8	Topography and Geology	Conditions in embankment area	2 Locations (1. Embankment of Inter Change in Shivaji Nagar and 2 Cutting area at toll gate in Chirle)	4 times / year x 4.5 years	Criteria for evaluation Embankment shall be stabilized without any landslide and cracks	Shivaji Nagar		Chirle		
					Monitoring of embankment	No changes in the embankment noticed	No changes in the embankment noticed	Rock filling activity is carried out as per agreement.		
9	Local conflict of interests	Construction worker's township	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Criteria for evaluation Employment opportunity shall be provided fairly	Sewri Camp Site	Shivaji Nagar Camp Site	Chirle		
					Number of hired workers by community	around 1000	125-150	65		
10	Infectious diseases such as HIV/AIDS	Number of infected patient	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Criteria for evaluation Infection disease rate shall not be caused by the project	Sewri Camp Site	Shivaji Nagar Camp Site			
					Confirmation of health check record and inspect project site	Doctor on call checks site specific infections., minor and major incidents . 24x7 ambulance service , ERT team with trained first aiders available	Regular health checks-ups are done. In-house Doctors are appointed at site and labour camp along with Male nurses, Trained first aiders and 24x7 ambulance services.	Regular Health check up is carried out by site Doctor.		



	11	Labour Environment	Construction worker's condition	2 Locations (major camp site in Sewri and Shivaji Nagar)	2 times / year x 4.5 years	Criteria for evaluation "Building And Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996", "The building and other construction worker's welfare cess Act, 1996" and international standards such as "IFC Performance Standard 2 Labor and Working Conditions"	Distribution of Safety kits to 225 Workers Medical Camp organised; wherein > 500 workers were consulted. 220 No. of Malaria tests carried out. Glucose Distribution at Site during Summer Season for workmen. Organised Street Play for workers. Health Talk by Dr Akshay Shah Haemato Oncology on Hazards of Smoking & Chewing Tobacco and Preventive Measures. Inner health incentive program with co-ordination with Bhramakumaris Sanstha.	Shivaji Nagar Camp Site	Gavan Camp site		
						Site Visual Inspection	Weekly site inspection	Conforming with BOCW Act, 1996	Conforming with BOCW Act 1996		
Other	12	Accident	Number of accidents	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Criteria for evaluation Any accidents are not caused by construction	Sewri Site	Shivaji Nagar Camp Site	Chirle/Other area		
						Number of recorded accident	0	Nil	Nil		



The Project for Construction of Mumbai Trans Harbour Link
Reporting Form of Environmental Monitoring during Operation

This form is prepared for reporting the monitoring results to JICA India Office. Only minimum required parameters are included in this form, and not all parameters in EMoP are covered.

Attachment 2-4 (2)

2. Environmental Monitoring during Operation for 2 years after completion of construction

Area	No.	Item	Parameter	Location	Frequency a year	Item and Stanadard	Monitoring Result				Remark - reasons why the data is exceeding standard - counter measures when the data is exceeding
							Location 1	Location 2	Location 3	Location 4	
Pollution	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5}	2 Locations (Sewri and Shivaji Nagar)	2 times / year	National Ambient Air Quality Standards (NAAQS) (Standard for 24hrs: Industrial and Residential)	Sewri	Shivaji Nagar			
						1. SO ₂ : 80µg/m ³					
						2. NO ₂ : 80µg/m ³					
						3. PM ₁₀ : 100µg/m ³					
						4. PM _{2.5} : 60µg/m ³					
	2	Noise and vibration	Ambient and road side noise (dB(A)LAeq)	2 Locations (Sewri and Shivaji Nagar where baseline monitoirng was carried out)	2 times / year	Construction area Standard 85 dB(A) daytime (Japan standard) Not construction area : Ambient Noise Standard in India (dB(A) LAeq)	Sewri (ST 200-500) (Industrial area)	Sea Section (ST5000-5500) Migratory Bird Area (no standard on sea section)	Shivaji Nagar (Commercial area)		
						Day time : 6-22 hr (continious)					
						Night time: 22-6 hr (continious)					
						(only sea section)					
						Day time : 6-22 hr (10 min during 9-17 hrs)					
						Night time: 22-6 hr (10 min 22-24 hr)					
						-					
						Note (standard values in Not construction area)					
						1. Industrial Area					
						Day Time: 75 (6-22hr)					
						Night Time: 70 (22-6hr)					
						2. Commercial Area:					
						Day Time: 65 (6-22hr)					
						Night Time: 55 (22-6hr)					
			Vibration (dB) shall be converted from mm/s to dB	2 Locations (1. Sewri, 2. Shivaji Ngagar)	2 times / year	Construction area Standard 75 dB daytime (Japan standard) Not construction area : Vibration Standard (Japan Standard along the road)	Sewri (ST 200-500) (Industrial area)	Shivaji Nagar (Commercial area)			
						Day time : 6-22 hr (continious)					
						Night time: 22-6 hr (continious)					
						-					
						Note (standard values in Not construction area)					
						1. Commercial /Industrial Area					
						Day Time: 70 (7-20hr)					
						Night Time: 65 (20-7hr)					



Natural Environment	3	Protected Area	1. Monitoring of mudflat conditions including fauna-flora. 2. Monitoring of Cutting Tree and replantation/transplantation area. 3. Monitoring of Mangrove Plantation area appointed by MoEF. 4. Monitoring of sedimentation soil and ecological parameter (25 items on EIA main text Table 6.1.15 for soil and 7 items such as 1) Net primary productivity, 2) Chlorophyll-a, 3) Phosphate, 4) Nitrate, 5) Nitrite, 6) Particulate Organic Carbon, 7) SiO ₂)	Along MTHL alignment and mangrove replant area	4 times / year x 4.5 years	Standard is not existing, but quantity and quality should not be worsen	Sewri side (ST500-5500)	Sea Section (ST5500-16000)	Shivaji Nagar side (app. ST16000-19000)	Mangrove Replantation area appointed by State Government
						1-1. Fauna-Flora (number of species and quantity)				
						(1) Number of species of bird				
						(2) Number of species of fish				
						(3) Estimated number of Flamingo				
						1-2: Mangrove density and community survey		not required		
						(1) Number of species of mangrove		not required		
						(2) Density of mangrove (xx trees/10m)				
						1-3: Benthos Survey				
						(1) Number of species and quantity b				
						2-1: Cutting tree confirmation				
						(1) Number of cutting tree and species		not required		
						3-1: Mangrove survey in the replant area	not required	not required	not required	
						(1) Number of species of mangrove	not required	not required	not required	
						(2) Density of mangrove (xx trees/10m x 10m)	not required	not required	not required	
						4. Ecological Parameter				
						(1) Net primary Productivity : <1,500 mgC/m ³ /day at surface				
						(2) Chlorophyll-a: <4mg/m ³				
						(3) Phosphate: 0.1-90µg/l				
						(4) Nitrate: 1.0-500µg/l				
						(5) Nitrite: <125µg/l				
						(6) Particulate Organic Carbon: 10-100mg/m ³				
						(7) SiO ₂ : 10-5,000µg/l				
						Criteria for evaluation				
						Project activities and structures does not cause flooding and impacts on tidal conditions	Sewri	Shivaji Nagar		
						Monitoring of flooding situation	-	-	-	
						Criteria for evaluation				
						Embankment shall be stabilized without any landslide and cracks	Shivaji Nagar	Chilre		
						Monitoring of embankment	-	-	-	

Regarding protected area (CRZ and Important Bird Area) and ecosystem, detailed long-term monitoring plan will be established during baseline survey of birds. This tentative monitoring form shall be updated based on the detailed long-term monitoring plan.



QPR No. 26 (July to September 2023) – Attachment 2-6

MTHL - ROW Land Acquisition Status (Attachment 2-6):

The total land required on the Navi Mumbai side is 108.4379 ha

Land acquired by MMRDA – 108.4379 ha

Land in possession of MMRDA – 106.3542 ha

Balance land under acquisition – 0.3937 ha

Note: The acquisition of 0.3937 ha of ROW land is in progress and likely to complete.

ROW Land Required in ha (for Package-3)	ROW land acquired by MMRDA In ha	ROW Land in possession of MMRDA in ha	Balance ROW to be handed over (Possession to be taken + Under acquisition)	Anticipated date for 100% ROW Land Acquisition	Remarks
108.4379	108.0442	108.0442	2.0837 (1.6900+0.3937)	31-1-2023	The payment status to the land owners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.



Attachment 2-8

**RAP Implementation Monitoring Form
For Mumbai Trans Harbour Link Project (MTHL)**

1. General Information

a. RAP Implementation Monitoring Progress Status Report (PSR) for the 1st quarter of 2023- 2024

b. Date of Preparing This form

30-09-2023

c. Person Preparing This form

Name: Shivananda. K

Position: The Engineer

Department/Organizations: General Consultants

2. Scale of Impact**2.1 Project Affected Households (PAHs) and Project Affected Persons (PAPs) for Sewri side**

Total Project Affected Households (PAHs)	231Hhs	Titleholders: 0 Hhs
		Non-titleholders: 231Hhs
Total PAPs	1,282 persons*	Titleholders: 0 persons
		Non-titleholders:1,282 persons*
PAHs who need relocation (as residents)	231Hhs	Titleholders: 0persons
		Non-titleholders:231 (1,088persons) *
PAPs who do not need relocation (as residents)	0 persons	Titleholders: 0 persons
		Non-titleholders: 0 persons
Commercial PAPs who need relocation	66 (194persons) *	Titleholders: 0 persons
		Non-titleholders:66(194persons) *
Commercial PAPs who do not need relocation	0 persons	Titleholders: 0 persons
		Non-titleholders: 0 persons

* - Figures for number of persons do not include no. of family members of few additional PAPs.



QPR No. 26 (July to Sept 2023) Attachment 2-8

Structures

Structures	Residential:231 Commercial:65 Residential + Commercial: 1 (counted in Commercial) Community:9 (Religious Properties 6, Public Toilets3) Government:16 (MbPT Structures 9, Occupants of Leased Plots 6 & Police Chowki 1) Total: 322
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2.2 Fishery

Categories of Fisher-folks	Identified Number		Total	Remarks
	Mumbai side	Navi Mumbai side		
C1: Fishing stakes and nets in RoW (250 m.)	178	54	232	Funds for 232 nos C1 category fishermen are transferred to Commissioner of Fisheries in 2017-22.
C2: Fishing Stakes and Nets within 500 m. of RoW (Southern side)	268	493	761	Funds for 761 nos C2 category fishermen are transferred to Commissioner of Fisheries in 2017-22.
C3: Hand Pickers	1492	4040	5534	Funds for 5234 nos of C3 category fishermen are already transferred to the Commissioner of Fisheries.
C4: Commercial and Artisanal Fisher-folks (Loss of Time and Increased	Will be observed during the construction period	Will be observed during the construction period	---	Nil



QPR No. 26 (July to Sept 2023) Attachment 2-8

Operating Costs)				
C5: Fisher-folks with Loss due to Turbidity	Will be observed during the construction period	Will be observed during the construction period	----	Nil
C6: Fisher-folks with Damages due to Accidents	Will be observed during the construction period	Will be observed during the construction period	----	Nil

2.3 Land Acquisition / Transfer

Location	Land Required in Ha.	Land Acquired in Ha.	Balance ROW to be Handed over in Ha	Remarks
Sewri	10.089	10.089	0	
Navi Mumbai	108.4379	108.0442	2.0837	1.69 Ha yet to over to the Contractor & 0.3937 Ha is under acquisition
Total	118.179	118.1332	2.0837	

3. Monitoring Results**3.1 Sewri Section**

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
Resettlement	No. of Residential PAHs provided with Allotment Letters of Alternate Tenements	231	231	0	231	100%	
	No. of Residential PAHs given possession of Alternate Tenements	231	231	0	231	100%	



Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of Commercial/R+C PAPs provided with Allotment Letters of Alternate Shops/Tenements	66	66	0	66	100%	
	No. of Commercial R+C PAPs given possession of Alternate Shops/Tenements	66	66	0	66	100%	
	No. of Occupants of MbPT Leased Plots provided Compensation	6	6	0	6	100%	
	No. of Religious properties Relocated / Removed	6	6	0	6	100%	
	No. of Other Community properties Relocated / Removed	4	4	0	4	100%	
	No. of Structures in possession of MbPT Dismantled / Cleared	9	9	0	9	100%	
	No. of PAHs/PAPs provided Shifting Charges / Arrangement	297	297	0	297	100%	
Rehabilitation	No. of PAHs / PAPs identified for Livelihood Support in Post Resettlement Assessment						

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of PAHs / PAPs provided Livelihood Support under Program-I (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-II (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-III (to be identified)						
	No. of new enterprises started						
Grievance Redress	No. of Grievances Received by FLGRC	4					
	No. of Grievances Disposed by FLGRC	3	3	0	3	100%	
	No. of Grievances Received by SLGRC	1	0	0	0		
	No. of Grievances Disposed by SLGRC	0					
Post Resettlement Assistance	No. of CHSs Registration helped						
	No. of CHSs provided Tenements for Social Amenities						
	No. of CHSs' Maintenance Fund Invested						

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of CHSSs' Office Bearers provided training						

SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Influence Zone of 24 villages)**Up to 30-09-2023**

Sr.No.	Village Name	Total number of forms Received	Total approved eligible family units			
			C1	C2	C3	Total
1	Bamandongri	273	1	1	28	30
2	Belapur	110	0	5	15	20
3	Belpada	1185	0	7	478	485
4	Diwale	455	12	201	52	265
5	Ganeshpuri	276	0	37	35	72
6	Gavhan	2162	0	14	1317	1331
7	Jasai	926	0	0	18	18
8	Jawale	51	0	1	0	1
9	Kombadbhuja	413	1	23	135	159
10	Kopar	994	2	5	228	235
11	Karave	178	0	44	67	111
12	Mahul	1062	129	77	604	809
13	Moha	475	22	25	134	181
14	Mora	818	0	102	375	477
15	Morave	539	14	21	88	123
16	Nhava	1646	0	32	307	339
17	Sarsole	266	0	30	83	113
18	Sewri	305	0	1	72	73
19	Shelghar	241	0	0	15	15
20	Shivajinagar	202	1	4	61	66
21	Trombay	1208	49	219	823	1091
22	Ulwe	218	1	3	14	18
23	Uran & Hanuman Koliwada	683	0	11	600	611
24	Vahal	411	0	2	1	3
Total		15097	232	865	5549	6646

SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Out of Influence Zone villages)**Up to 30-09-2023**

QPR No. 26 (July to Sept 2023) Attachment 2-8

Sr.No.	Village Name	Total number of forms Received	Total approved eligible family units			
			C1	C2	C3	Total
1	Airoli	76	0	15	0	15
2	Ghansoli	340	0	15	0	15
3	Kopar khairne	245	0	1	0	1
4	Vashi Gaon	256	0	25	0	25
5	Juhugaon	201	0	3	0	3
6	Dhutum	398	0	1	0	1
7	Gharapuri	261	0	14	0	14
8	Kelavane	105	0	2	0	2
9	Koprol	70	0	4	0	4
10	Takigaon	1	0	1	0	1
11	Vindhane	12	0	2	0	2
12	Dighode	708	0	17	0	17
13	Kundegaon	548	0	24	0	24
	Total	3221	0	124	0	124

Total applications received (Influence Zone)	15097
Total applications received (Out of Influence Zone)	5744
Duplicate/Repeated Application	2428
Rejected application	11643
Eligible applications	6770
Total approved applications	6527



QPR No. 26 (July to Sept 2023) Attachment 2-8

Grievance Redressal Committee (GRC) for Fisher-folk Compensation

No. of Cases referred to GRC	No. of Cases		No. of Cases Rejected	No. of Cases under Consideration
	Allowed	Compensation Paid		
3	3	3	0	3



QPR No. 26 (July to Sept 2023) Attachment 2-10

Implementation Schedule for Fisher-folks Compensation & Land Acquisition in Navi Mumbai**A. Implementation Schedule for Fisher-folks Compensation: -**

Sr. No.	Task Designation	Approving authority	Start Date	Completion Date
1	Approval of fisherfolk's compensation Policy	Fisher-folks Compensation Committee (FCC)	08-10-2015	23-12-2015
2	Approval by MMRDA	MMRDA	10-12-2015	23-12-2015
3	Submission to JICA*	MMRDA	-	04-01-2016
4	A detailed list of PAP and compensation plan	1. Detailed list of Fisher-folk PAP up to list 1 (1165 Nos) & 2 (1399 Nos) are finalized by the Fisheries Department. 2. From 2018, FEVC committee is the approval authority of PAF and approved C1- 232 Nos. C2 - 761 Nos and C3- 5534 Nos are approved.	23-12-2015	Up to 31-03-2023 1. Total up to date applications scrutinized = 20841 Nos (Influence zone & out of influence zone). 2. Eligible = 6770 Nos. 3. Rejected = 11643 Nos.
	Validation of compensation plan	Fisher-folks Compensation Committee (FCC)	23-12-2015	1. Approval to the Fisher-folk PAP list obtained from Fisheries Department for Fisherfolk from Sewri, Mahul & Trombay (Mumbai side) - 12th September 2017 and 20th November 2018 for C-2 & C3 Category only.



QPR No. 26 (July to Sept 2023) Attachment 2-10

Sr. No.	Task Designation	Approving authority	Start Date	Completion Date
			23-12-2015	2. Approval to the Fisher-folk PAP list obtained from Fisheries Department for Fishertolk of Navi Mumbai of C2 & C3 on 25th April 2018. 3. Validation of compensation is in progress and would be completed in phases.
6	Approval of compensation plan	FCC	23-11-2015	28-12-2017
7	Approval by MMRDA	MMRDA	23-11-2015	09-03-2021

B. Implementation Schedule for Land Acquisition in Navi Mumbai: -

ROW Land Required in Ha.	ROW Land Acquired by MMRDA in Ha.	ROW Land in Possession of MMRDA in Ha	Balance Land to be acquired in Ha	Anticipated date for 100% ROW Land Acquisition	Remarks
108.4379	108.0442	108.0442	0.3937	30-4-2023	



QPR No. 26 (July to Sept 2023) Attachment 2-10

Implementation Schedule for SIA (Sewri Section)

Task No.	Task Designation	Start Date	Completion / Forecast Date
1	Preparation of Final SIA		
1.1	MMRDA Approval	October 2015	January 2016
1.2	JICA Approval	November 2015	January 2016
1.3	Posting of project Information on MMRDA		
1.4	Translation and disclosure of entitlement policy in local language to all PAP's	December 2015	January 2016
2	LARP Implementation		
2.1	Grievance redress mechanism established	August 2016	August 2016
2.2	Staff deployment SIA implementation	June 2016	Dec. 2021
2.3	Staff Deployment Public Relation	June 2016	June 2016
2.4	Hiring of Independent Evaluation Agency	November 2018	November 2020
2.5	Preparation and issue of allotment letters to PAPs	June 2018	Dec. 2022
2.6	Notice of PAPs for shifting (Sewri Section)	December 2018	Nov. 2021
2.7	Allotment of dwelling units to PAPs	September 2016	Dec. 2022
2.8	Shifting of PAPs to resettlement Colony	December 2018	Nov. 2021
2.9	Transfer of compensation/allowance/ assistance to PAPs	December 2018	Dec. 2022
2.10	Creation of Community Revolving fund (within 3 months post handing over)	April 2019	October 2023
2.11	Assessment of economic rehabilitation needs by individual household (within 6 months after handing over)	September 2019	October 2023
2.12	Registration of Co-operative housing societies transfer of maintenance funds. (6 months period)	December 2019	April 2023
2.13	Signing of Civil Contract		January 2018
2.14	Notice of Civil works to proceed		March 2018
3	Monitoring & Evaluation		
3.1	Internal Monitoring- Monthly/ Quarterly	June 2016	January 2020
3.2	Independent Evaluation Mid-term and End term evaluation Mid Term End Term	May 2019 November 2019	May 2024 July 2024

Attachment 3- JICA's Concurrence Status

QPR 1st Jul 2023 to 30th Sept 2023



Status of JICA'S Concurrence

Sl. No.	Brief description	Procurement procedure	Bid Cost		JICA'S Concurrence on					
			Local Currency (Cr Rs.)	Total (Cr Rs)	PQ Documents	PQ Evaluation	Bid Documents	Technical Evaluation	Financial Evaluation	Contract
1.	Package-1 (CH 0+000 km to CH10+380 km)	ICB with PQ (2P)	7637.30	7637.30	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 22nd Dec 2016	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 12th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence - 15th Feb 2018
2.	Package-2 (CH 10+380 km to CH18+187 km)	ICB with PQ (2P)	5612.61	5612.61	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 22nd Dec 2016	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 12th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence - 15th Feb 2018
3.	Package-3 (CH18+187 to CH21+800)	ICB with PQ (2P)	1013.79	1013.79	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 15th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence - 15th Feb 2018
4.	Package-4 Intelligent Transport System	ICB with PQ (2P)	427.00	427.00	JICA's Concurrence - 23rd Aug 2019	NA	JICA's Concurrence - 24th Aug 2021	JICA's Concurrence - 15th Feb 2022	JICA's Concurrence - 21st Apr 2022	JICA's Concurrence - 13th Oct 2022



QPR 1st July 2023 to 30th Sept 2023



Attachment 4- Project Procurement and Financial Status till 30th September 2023

QPR 1st July 2023 to 30th Sept 2023



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PROJECT PROCUREMENT AND FINANCIAL STATUS TILL 30th Sept 2023

Type	Contract	Awarded or Estimated Value (in Rs. Crore)	Current Status	Contractors	Project Commencement Date	Stipulated Project Completion Date	Revised Project Completion Date After granting the Extension of Time (EOT)	% of Overall Works Progress (Design, Material Procurement and Construction) as per the Primavera Baseline Schedule Updated as of 30 th September 2023	% of Financial Progress till 30 th September 2023 (GC Certified) (Excluding Mobilization Advance, Price Adjustment and Work Variation)
CIVIL	Package-1 (CH 0+000 km to CH 10+380 km)	7637.30	Awarded	L&T-IHL Consortium	Mar 2018	21-Sep-2022	30-Sep-2023	95.88%	95.91%
	Package-2 (CH 10+380 km to CH18+187 km)	5612.61	Awarded	DAEWOO-TPL JV	Mar 2018	21-Sep-2022	27-Sep-2023	96.03%	95.34%
	Package-3 (CH18+187 to CH21+800)	1013.79	Awarded	L&T	Mar 2018	21-Sep-2021	06-Aug-2023	91.69%	92.4%
	Package-4 Intelligent Transport System (ITS)	449.00	Awarded	Strabag GmbH JV	June 2022	30-Sep-2023	-	52.46%	46.91%
ITS									

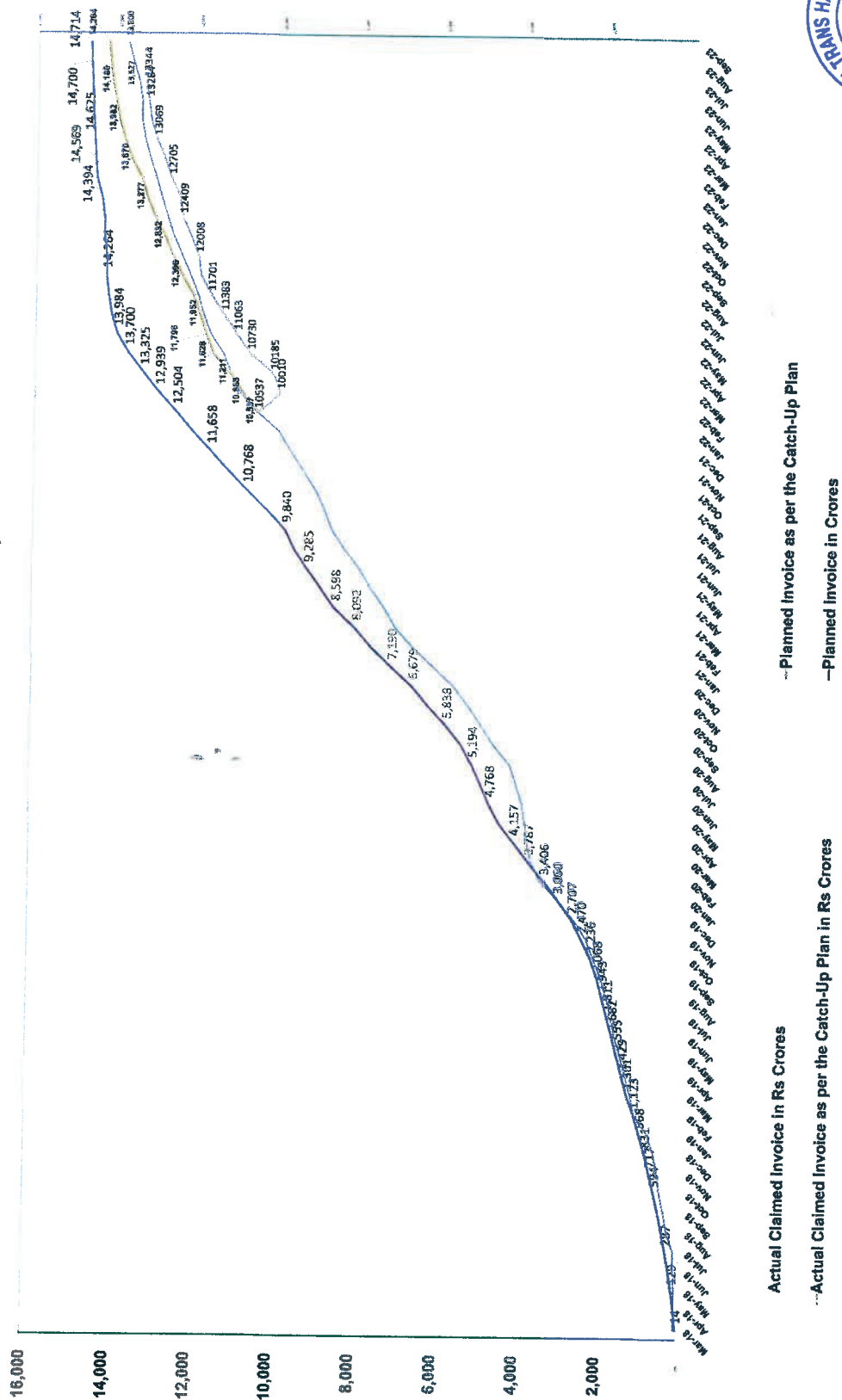
QPR 1st Jul 2023 to 30th Sept 2023


Attachment 5- Financial S-Curve for Cumulative Planned Vs Actual Amount in Rs Crores

QPR 1st Jul 2023 to 30th Sept 2023



MTHL - Combined Financial S-Curve Updated as of 30th September 2023



**Attachment 6- Package-1's Construction Programme
Updated as of 25th Sept 2023**



Activity ID	Activity Name	BL1 Duration	BL1 Start	BL1 Finish	Original Start	Original Finish	Schedule % Complete	Performance % Complete	Variance - BL Project Start Date	Variance - BL Project Finish Date	Total Float	2018	2019	2020	2021	2022	2023	2024
MTHL P1 - Sep-23 Month Progress		1293.6	23-Mar-18	30-Sep-23	1441.9	23-Mar-18	02-Mar-24	100%	100%	0.0	-135.5	-135.0						
Mumbai Trans Harbour Link - Pac		1293.6	23-Mar-18	30-Sep-23	1441.9	23-Mar-18	02-Mar-24	100%	100%	0.0	-135.5	-135.0						
M10000	Commencement Date	0.0	23-Mar-18		0.0	23-Mar-18		100%	100%	0.0	0.0							
Delay Events		588.1	31-Dec-20	28-Apr-23	588.1	31-Dec-20	14-Mar-22	0%	0%	0.0	283.6							
DE 1&3 Non-handing over of encumbrance		849.0	31-Dec-20	28-Apr-23	849.0	31-Dec-20	28-Feb-22	0%	0%	0.0	424.0							
DE6A & 6B Delay in Detailed Utility Identif		338.0	14-Mar-21	14-Feb-22	338.0	14-Mar-21	14-Feb-22	0%	0%	0.0	0.0							
DE6C - Delay in Utility Diversion		30.0	15-Feb-22	21-Mar-22	30.0	15-Feb-22	14-Mar-22	0%	0%	0.0	6.5							
DE08 - Delay in permission for cutting & b		718.0	31-Dec-20	18-Dec-22	718.0	31-Dec-20	20-Oct-21	0%	0%	0.0	425.0							
DE26 - Delay due to Change in span confi		268.0	18-Feb-22	22-Nov-22	268.0	31-Dec-20	13-Jan-22	0%	0%	424.0	314.0							
DE27 - Delay due to Stoppage of works by		425.0	31-Dec-20	28-Feb-22	425.0	31-Dec-20	28-Feb-22	0%	0%	0.0	0.0							
DE28 - Delay due to Cyclonic Storm - Taul		175.8	18-Mar-22	09-Mar-22	175.8	15-May-21	10-Jun-21	0%	0%	1.0	161.7							
DE29 - Delay due to change in type of Cras		425.0	31-Dec-20	28-Feb-22	425.0	31-Dec-20	28-Feb-22	0%	0%	0.0	0.0							
Key Milestones		1551.5	01-Jul-19	30-Sep-23	1705.8	15-Feb-19	02-Mar-24	0%	0%	137.0	-154.3	-154.8						
Access to Site		1055.9	23-Mar-18	20-Feb-21	1065.9	23-Mar-18	20-Jan-23	0%	0%	0.0	-698.1							
Survey		73.0	23-Mar-18	03-Jun-18	73.0	23-Mar-18	03-Jun-18	0%	0%	0.0	0.0							
Geotechnical Investigation		420.3	23-Mar-18	22-Jul-19	420.3	23-Mar-18	23-Jul-19	0%	0%	0.0	0.0							
Phase 1		54.3	23-Mar-18	21-May-18	54.3	23-Mar-18	21-May-18	0%	0%	0.0	0.0							
Phase 2		23.1	22-May-18	15-Jun-18	23.1	22-May-18	15-Jun-18	0%	0%	0.0	0.0							
Phase 3		179.5	16-Jun-18	30-Dec-18	179.5	16-Jun-18	30-Dec-18	0%	0%	0.0	0.4							
Phase 4		242.1	05-Oct-18	22-Jul-19	242.1	05-Oct-18	23-Jul-19	0%	0%	0.0	0.0							
Infrastructure Facilities		592.9	23-Mar-18	26-Oct-20	592.9	23-Mar-18	26-Oct-20	0%	0%	0.0	1.0							
Project Site Office Construction (Contract		125.6	04-Apr-18	25-Nov-18	125.6	04-Apr-18	25-Nov-18	0%	0%	0.0	0.4							
Casting Yard		567.5	20-Apr-18	26-Oct-20	567.5	20-Apr-18	26-Oct-20	0%	0%	0.0	1.0							
Fabrication Yard		272.0	23-Mar-18	26-Apr-19	272.0	23-Mar-18	26-Apr-19	0%	0%	0.0	1.0							
Rebar Yard		424.1	23-Mar-18	16-Jan-20	424.1	23-Mar-18	16-Jan-20	0%	0%	0.0	1.0							
Batching Plant Installation - CP30 & CP60		73.4	16-Sep-18	08-Dec-18	73.4	16-Sep-18	08-Dec-18	0%	0%	0.0	1.0							
Design & Engineering (Civil)		926.6	23-Mar-18	08-Feb-22	926.6	23-Mar-18	06-Jul-23	0%	0%	0.0	-341.5							
Initial Design (General & Preliminary Desi		229.1	23-Mar-18	29-Nov-18	229.1	23-Mar-18	29-Nov-18	0%	0%	0.0	1.0							
Finalization of Alignment		168.8	23-Mar-18	24-Sep-18	168.8	23-Mar-18	10-Sep-18	0%	0%	0.0	13.7							
Detailed Design and Construction Design		891.5	01-May-18	08-Feb-22	891.5	01-May-18	06-Jul-23	0%	0%	0.0	-341.5							
Design, Engineering & Material Procurem		945.9	23-Mar-18	14-Sep-21	945.9	23-Mar-18	22-Jul-21	0%	0%	0.0	24.0							
Initial Design		229.1	23-Mar-18	29-Nov-18	229.1	23-Mar-18	29-Nov-18	0%	0%	0.0	1.0							
Aerodynamic Analysis		422.3	23-Mar-18	29-Jul-19	422.3	23-Mar-18	30-Jul-19	0%	0%	0.0	0.0							
Technical Design		646.5	15-May-18	20-Jul-20	646.5	15-May-18	22-Jul-20	0%	0%	0.0	0.0							
Construction Design		658.5	02-Feb-19	14-Sep-21	658.5	02-Feb-19	22-Jul-21	0%	0%	0.0	24.0							
Material Procurement (1st Lot)		554.4	15-Mar-19	24-Mar-21	554.4	15-Mar-19	19-Jan-21	0%	0%	0.0	55.9							
Tree Cutting and Transplantation		1229.0	23-Mar-18	02-Aug-21	1229.0	23-Mar-18	30-Nov-22	0%	0%	0.0	-484.0							
Utility Diversion		757.7	01-Oct-18	23-Aug-21	757.7	01-Oct-18	20-Jan-23	0%	0%	0.0	-392.6							
Construction		1221.4	11-Jun-18	29-Sep-23	1349.7	11-Jun-18	01-Feb-24	100%	100%	0.0	-108.2	-123.4						
PSS011	Certified Invoice till 28-02-22	0.0			1.0	28-Feb-22	28-Feb-22	0%	100%	0.0	0.0							
Sewer Interchange Section		1022.5	29-Mar-19	20-Jul-23	1086.6	29-Mar-19	17-Oct-23	100%	100%	0.0	-40.3	-15.3						
Sewer Interchange - Work Front - 1		919.5	16-May-19	25-Mar-23	979.7	16-May-19	21-Apr-23	100%	100%	0.0	-24.1							
Sewer Interchange - Work Front - 1 -		657.8	16-May-19	08-Apr-22	657.8	16-May-19	18-Feb-22	0%	0%	0.0	44.0							
Sewer Interchange - Work Front - 1 -		774.8	30-Jun-19	20-Dec-22	821.1	21-Jun-19	12-Jan-23	100%	100%	0.0	-20.6							
Sewer Interchange - Work Front - 1 -		877.4	01-Aug-19	23-Dec-22	950.4	30-Jul-19	15-Feb-23	100%	100%	0.0	-47.3							
Sewer Interchange - Work Front - 1 -		580.8	12-Oct-20	09-Jan-23	628.9	12-Oct-20	17-Mar-23	100%	100%	0.0	-58.8							
Sewer Interchange - Embankment W		90.0	06-May-22	20-Oct-22	94.9	15-Oct-22	23-Dec-22	100%	100%	-85.2	-56.8							
Sewer Interchange - Work Front - 1 -		884.7	30-Jul-20	25-Mar-23	796.2	29-Jul-20	21-Apr-23	100%	100%	0.0	-24.1							
Sewer Interchange - Work Front - 2		992.5	29-Mar-19	27-Apr-23	1022.5	29-Mar-19	05-May-23	100%	100%	0.0	-5.6							
Sewer Interchange - Work Front - 2 -		778.4	20-Mar-19	05-Oct-22	798.7	29-Mar-19	05-Apr-22	100%	100%	0.0	81.2							
Sewer Interchange - Work Front - 2 -		773.4	05-May-19	06-Nov-22	832.0	05-May-19	23-Dec-22	100%	100%	0.0	-40.4							
Sewer Interchange - Work Front - 2 -		883.5	05-Sep-19	10-Jan-23	970.5	04-Sep-19	11-Jan-23	100%	100%	0.0	-4.4							
Sewer Interchange - Work Front - 2 -		885.2	02-Dec-19	04-Apr-23	938.5	02-Dec-19	01-Mar-23	100%	100%	0.0	30.7							
Sewer Interchange - Embankment W		60.0	28-Feb-22	06-May-22	60.0	01-Dec-21	15-Mar-22	100%	100%	78.7	47.3							
Sewer Interchange - Work Front - 2		627.9	05-Dec-20	27-Apr-23	654.7	05-Dec-20	08-May-23	100%	100%	0.0	-5.5							
Sewer Interchange - Work Front - 3 (Cas		705.3	16-May-20	26-Apr-23	752.4	16-May-20	06-May-23	100%	100%	0.0	-8.1							
Sewer Interchange - Work Front - 3 -		427.4	16-May-20	22-Apr-22	427.4	16-May-20	20-Apr-22	100%	100%	0.0	2.2							
Sewer Interchange - Work Front - 3 -		467.9	21-Sep-20	11-Oct-22	477.3	21-Sep-20	27-Oct-22	100%	100%	0.0	-13.2							
Sewer Interchange - Work Front - 3 -		534.1	10-Oct-20	16-Nov-22	584.3	10-Oct-20	10-Dec-22	100%	100%	0.0	-21.1							
Sewer Interchange - Work Front - 3 -		429.7	20-Feb-21	03-Dec-22	482.0	27-Mar-21	03-Feb-23	100%	100%	-28.4	-34.6							
Sewer Interchange - Work Front - 3 -		317.3	25-Feb-22	26-Apr-23	285.0	01-Mar-22	06-May-23	100%	100%	-1.0	-8.1							
Sewer Interchange - Merging with East		226.4	05-Oct-22	20-Jul-23	98.5	10-Mar-23	17-Oct-23	0%	0%	-137.1	-52.4	-27.3						
Intertidal Section		1221.4	11-Jun-18	29-Sep-23	1286.8	11-Jun-18	12-Dec-23	100%	100%	0.0	-65.4	-65.0						
Intertidal - Temporary Access Bridge W		1221.4	11-Jun-18	29-Sep-23	1286.8	11-Jun-18	12-Dec-23	0%	0%	0.0	-65.4	-65.0						
Access Bridge		470.6	11-Jun-18	27-May-20	470.6	11-Jun-18	27-May-21	0%	0%	0.0	0.0							
Temporary Access Bridge Work - 3 (I		925.9	14-Nov-18	29-Sep-23	991.4	14-Nov-18	12-Dec-23	0%	0%	0.0	-65.4	-65.0						
Intertidal - Main Bridge Work		1047.4	14-Nov-18	14-Feb-23	1130.3	14-Nov-18	25-Apr-23	100%	100%	0.0	-62.3							
Intertidal - Main Bridge Work - Piling		740.1	14-Nov-18	24-Sep-21	740.1	14-Nov-18	05-Oct-21	0%	0%	0.0	-8.5							
Intertidal - Main Bridge Work - Pile C		712.9	17-Jan-19	30-Oct-21	712.9	17-Jan-19	31-Dec-21	0%	0%	0.0	0.0							
Intertidal - Main Bridge Work - Pier		794.2	29-Mar-19	12-Apr-22	794.2	29-Mar-19	26-Mar-22	100%	100%	0.0	15.8							
Intertidal - Main Bridge Work - Pier C		727.2	12-Aug-19	05-May-22	803.7	10-Aug-19	11-Apr-22	100%	100%	0.0	22.6							
Intertidal - Main Bridge Work - Super		792.5	29-Nov-19	14-Feb-23	875.4	29-Nov-19	25-Apr-23	100%	100%	0.0	-62.3							
Marine Section		1095.7	14-Dec-18	10-May-23	1136.9	14-Dec-18	07-Jul-23	100%	100%	0.0	-19.3							
Marine - Main Bridge		1095.7	14-Dec-18	10-May-23	1136.9	14-Dec-18	07-Jul-23	100%	100%	0.0	-19.3							
Marine - Piling		598.6	14-Dec-18	31-May-21	598.6	14-Dec-18	10-Apr-21	0%	0%	0.0	20.8							
Marine - Pile Cap		827.5	14-Jan-19	15-Sep-22	827.5	14-Jan-19	30-May-21	100%	100%	0.0	15.2							
Marine - Pier		782.3	16-Sep-19	06-Dec-22	894.1	12-Sep-19	22-Feb-23	100%	100%	0.0	-68.8							
Marine - Pier Cap		737.4	26-Dec-19	10-Jan-23	872.6	26-Dec-19	11-Mar-23	100%	100%	0.0	-52.3							
Marine - Super Structure Erection		691.0	16-Sep-20	10-May-23	732.3	23-Jun-20	07-Jul-23	100%	100%	0.0	-19.3							
Precast Segments		865.9	07-Aug-19	23-Feb-23	950.1	07-Aug-19	21-Mar-23	100%	100%	0.0	-21.7							
Precast Segment - Sewer Interchange		809.4	20-Feb-20	18-Dec-22	878.3	20-Feb-20	18-Jan-23	100%	100%	0.0	-27.6							

Actual Level of Effort Remaining Work
Actual



**Attachment 7- Package-2's Construction Programme
Updated as of 25th Sept 2023**



MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION
(CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJINAGAR INTERCHANGE
UNDER IDENTIFICATION NO MMRDA/ENG/000753

ANNEXURE-5 CONSTRUCTION UPDATED
PROGRAMME_ABSTRACT (PACKAGE 2)

1 of 9

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	27
1		MTHL-PKG2-DETAILED WORK PROGRAMME_25092023_APPROVED_MPR.66	3295	17-Nov-17	21-Sep-24	17-Nov-17		100%	96.03%										
2		PROJECT PRE-COMMENCEMENT ACTIVITY	126	17-Nov-17	22-Mar-18	17-Nov-17	16-Mar-18	0%	0%										
3		PRE-COMMENCEMENT ACTIVITY	55	15-Dec-17	07-Feb-18	15-Dec-17	20-Mar-18	0%	0%										
4		JV FORMATION AND REGISTRATION	55	15-Dec-17	07-Feb-18	15-Dec-17	20-Mar-18	0%	0%										
5		PROJECT EVENT MILESTONE	2440	23-Mar-18	21-Mar-23	23-Mar-18		0%	0%										
6		PROJECT KEY MILESTONE	2440	23-Mar-18	22-Sep-22	23-Mar-18		0%	0%										
7		INTERFACE MILESTONE_ERG19	2411	19-Apr-18	21-Mar-23	03-Apr-18		0%	0%										
8		PHYSICAL PROGRESS AND INTERFACE DATE_ADD2-ATTACHMENT 25	2197	18-Sep-18	22-Jun-22	31-Aug-18		0%	0%										
9		CONSTRUCTION KEY MILESTONES	1308	03-Sep-18	06-Jul-21	25-Oct-18	01-Jan-22	0%	0%										
10		MANAGEMENT	613	20-Jan-18	18-Aug-18	12-Jan-18	22-Aug-19	0%	0%										
11		SITE ORGANISATION	35	20-Jan-18	23-Feb-18	07-Mar-18	07-Mar-18	0%	0%										
12		DEVELOPMENT OF MANAGEMENT SYSTEM	613	20-Jan-18	27-May-18	20-Jan-18	22-Aug-19	0%	0%										
13		DEVELOPMENT OF WORK PROGRAMME	63	23-Mar-18	24-May-18	23-Mar-18	21-Sep-18	0%	0%										
14		OTHER CONTRACTUAL SUBMITTALS	28	24-Mar-18	20-Apr-18	24-Mar-18	23-Apr-18	0%	0%										
15		PERMIT & APPROVAL	388	20-Jan-18	18-Aug-18	12-Jan-18	03-Aug-19	0%	0%										
16		DESIGN	1321	20-Jan-18	04-Sep-19	01-Jan-18	02-Feb-21	100%	100%										
17		EARLY STAGE DESIGN WORK / INFORMATION COLLECTION	678	20-Jan-18	17-Jul-18	01-Jan-18	12-Nov-19	100%	100%										
18		TEMPORARY WORK	1037	22-Jan-18	01-Nov-18	20-Jan-18	20-Aug-20	100%	100%										
19		CONCRETE MIX DESIGN	274	23-Mar-18	31-Aug-18	12-May-18	15-Nov-18	0%	0%										
20		JFE DESIGN PROGRAMME	1220	01-May-18	04-Sep-19	09-Apr-18	02-Feb-21	100%	100%										
21		PROCUREMENT, MANUFACTURING AND LOGISTICS	2108	20-Jan-18	23-Aug-20	22-Dec-17		100%	100%										
22		SURVEY & INVESTIGATION	72	20-Jan-18	02-Apr-18	22-Dec-17	04-Apr-18	0%	0%										
23		TEMPORARY WORK	964	20-Jan-18	20-Oct-18	20-Jan-18	11-May-20	0%	0%										
24		MAIN WORK SUBCONTRACT WORK	1520	23-Mar-18	20-Jul-19	23-Mar-18	25-Feb-23	0%	0%										
25		EQUIPMENTS	1096	23-Mar-18	12-Sep-19	23-Mar-18	05-Nov-20	100%	100%										
26		PRECAST MOULD AND SYSTEM FORM	715	07-Aug-18	24-Mar-19	04-Sep-18	25-Sep-20	100%	100%										
27		MATERIAL SUPPLIERS	1975	02-Jun-18	15-Oct-19	20-Apr-18		0%	0%										
28		MATERIAL PROCUREMENT	0			08-Aug-18	13-Oct-22	0%	0%										
29		PROCUREMENT OF STEEL GIRDER	673	07-May-19	23-Aug-20	01-Aug-19	02-Feb-21	0%	0%										
30		STEEL PLATE FOR (RHS STEEL MOUDLE-2_MP177 - MP182)	513	04-Jun-19	13-Jul-20	08-Aug-19	02-Jul-20	0%	0%										
31		STEEL PLATE FOR (LHS STEEL MOUDLE-2_MP177 - MP182)	438	07-May-19	16-Apr-20	01-Aug-19	12-May-20	0%	0%										
32		STEEL PLATE FOR (RHS STEEL MOUDLE-3_MP183 - MP186)	315	01-Jul-19	10-May-20	01-Nov-19	17-Aug-20	0%	0%										
33		STEEL PLATE FOR (LHS STEEL MOUDLE-3_MP183 - MP186)	315	04-Jun-19	14-Apr-20	01-Oct-19	05-Nov-20	0%	0%										
34		STEEL PLATE FOR (RHS STEEL MOUDLE-1_MP176 - MP171)	286	30-Jul-19	23-Aug-20	01-Apr-20	02-Feb-21	0%	0%										
35		STEEL PLATE FOR (LHS STEEL MOUDLE-1_MP176 - MP171)	327	02-Jul-19	26-Jul-20	29-Mar-20	05-Jan-21	0%	0%										
36		IMPACT OF COVID-19	51			22-Mar-20	25-May-20	0%	0%										
37		CONSTRUCTION	2367	02-Apr-18	21-Jun-22	02-Apr-18		100%	98.64%										
38		TEMPORARY WORK	2367	02-Apr-18	21-Jun-22	02-Apr-18		100%	97.95%										
39		PREPARATION WORK	368	02-Apr-18	16-Jan-19	02-Apr-18	25-Jul-19	0%	0%										
40		ESTABLISHMENT OF EMPLOYER & CONTRACTOR OFFICE	194	20-Jun-18	27-Nov-18	27-Jun-18	18-Jan-19	100%	100%										
41		ESTABLISHMENT OF LABOUR CAMP	464	20-Jun-18	05-Apr-19	03-Jul-18	04-Apr-19	0%	0%										
42		ESTABLISHMENT OF CONCRETE CASTING YARD	1095	04-May-18	25-Apr-19	14-Jun-18	12-May-21	100%	100%										
43		ESTABLISHMENT OF STEEL SPAN ASSEMBLY YARD	584	02-Nov-18	06-Mar-20	01-Nov-19	30-Mar-21	0%	0%										
44		TEMPORARY BRIDGE	2314	20-May-18	21-Jun-22	27-Jul-18		100%	96.49%										
45		PERMANENT WORK	1904	03-Sep-18	24-May-22	08-Dec-18		100%	98.73%										
46		PRE-FABRICATION AND ASSEMBLY	1197	18-Apr-19	19-Feb-22	16-Oct-19	04-May-23	100%	100%										
47		CONCRETE PRE-FABRICATION AT THE CASTING YARD	893	18-Apr-19	15-Sep-21	06-Nov-19	04-Mar-23	100%	100%										
48		PC-HOUSE PRE-CASTING	0					0%	0%										
49		CONCRETE GIRDER PRE-CASTING	673	18-Apr-19	15-Sep-21	06-Nov-19	04-Mar-23	100%	100%										
50		STEEL SPAN FABRICATION AT THE SUPPLIER'S WORK SHOP INCLUDING LOGISTIC	951	02-Jun-19	24-Jan-22	16-Oct-19	04-Jun-22	100%	100%										
51		STEEL SPAN FABRICATION AT THE SUPPLIER'S WORK SHOP	952	02-Jun-19	29-Nov-21	16-Oct-19	18-Feb-22	100%	100%										
52		STEEL MODULE-02_MP186 - MP177 (FABRICATION AT JFE)	626	02-Jun-19	29-Jun-21	24-Oct-19	25-Jun-21	100%	100%										
53		STEEL MODULE-03_MP186 - MP183 (FABRICATION AT JFE)	734	29-Jun-19	25-Sep-21	16-Oct-19	01-Dec-21	100%	100%										
54		STEEL MODULE-01_MP176 - MP171 (FABRICATION AT JFE)	728	26-Jul-19	29-Nov-21	16-Apr-20	18-Feb-22	100%	100%										
55		STEEL SPAN MATERIAL OCEAN FREIGHT TO THE MUMBAI PORT INCLUDING CUSTOM CLEARANCE	641	10-Jul-20	09-Jan-22	01-Sep-20	01-Mar-22	100%	100%										
56		STEEL MODULE-01_MP176 - MP171 (OCEAN FREIGHT)	235	23-Nov-20	09-Jan-22	28-Sep-21	01-Mar-22	100%	100%										
57		STEEL MODULE-02_MP182 - MP177 (OCEAN FREIGHT)	417	10-Jul-20	09-Aug-21	01-Sep-20	13-Sep-21	100%	100%										
58		STEEL MODULE-03_MP186 - MP183 (OCEAN FREIGHT)	347	29-Nov-20	05-Nov-21	06-Mar-21	24-Dec-21	100%	100%										
59		LOADING AND DELIVERY TO THE CONTRACTOR'S ASSEMBLY YARD	555	20-Aug-20	24-Jan-22	21-Oct-20	04-Jun-22	100%	100%										
60		STEEL MODULE-01_MP176 - MP171 (DELIVERY TO ASSEMBLY YARD)	156	02-Jan-21	24-Jan-22	26-Oct-21	04-Jun-22	100%	100%										

Actual Level of Effort Critical Remaining Work
Actual Work Milestone
Remaining Work summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
61		STEEL MODULE-02_MP182 - MP177 (DELIVERY TO ASSEMBLY YARD)	343	20-Aug-20	19-Aug-21	21-Oct-20	13-Oct-21	100%	100%										
62		STEEL MODULE-03_MP186 - MP183 (DELIVERY TO ASSEMBLY YARD)	308	09-Jan-21	20-Nov-21	14-Apr-21	07-Mar-22	100%	100%										
63		STEEL GIRDER ASSEMBLY AT THE CONTRACTOR'S ASSEMBLY YARD	621	05-Sep-20	17-Feb-22	23-Nov-20	25-Apr-23	100%	100%										
64		STEEL MODULE-01_MP176 - MP171 (ASSEMBLY WORKS)	248	13-Oct-21	17-Feb-22	21-Jun-22	25-Apr-23	100%	100%										
65		STEEL SPAN ASSEMBLY_MP171 - MP172_G1	84	20-Nov-21	06-Jan-22	19-Feb-23	13-Apr-23	100%	100%										
66		STEEL SPAN ASSEMBLY_MP171 - MP172_G2	70	20-Nov-21	08-Jan-22	10-Mar-23	25-Apr-23	100%	100%										
67		STEEL SPAN ASSEMBLY_MP172 - MP173_G1	70	28-Dec-21	19-Jan-22	24-Jan-23	13-Apr-23	100%	100%										
68		STEEL SPAN ASSEMBLY_MP172 - MP173_G2	53	25-Jan-22	17-Feb-22	11-Feb-23	31-Mar-23	100%	100%										
69		STEEL SPAN ASSEMBLY_MP173 - MP174_G1	72	29-Nov-21	21-Dec-21	17-Nov-22	18-Feb-23	100%	100%										
70		STEEL SPAN ASSEMBLY_MP173 - MP174_G2	60	11-Nov-21	30-Dec-21	13-Dec-22	10-Feb-23	100%	100%										
71		STEEL SPAN ASSEMBLY_MP174 - MP175_G1	163	23-Oct-21	11-Dec-21	25-Jul-22	13-Jan-23	100%	100%										
72		STEEL SPAN ASSEMBLY_MP174 - MP175_G2	126	02-Nov-21	11-Dec-21	19-Sep-22	03-Feb-23	100%	100%										
73		STEEL SPAN ASSEMBLY_MP175 - MP176_G1	74	13-Oct-21	02-Dec-21	17-Oct-22	26-Dec-22	100%	100%										
74		STEEL SPAN ASSEMBLY_MP175 - MP176_G2	113	23-Oct-21	02-Dec-21	21-Jun-22	24-Nov-22	100%	100%										
75		STEEL MODULE-02_MP182 - MP177 (ASSEMBLY WORKS)	381	05-Sep-20	18-Sep-21	23-Nov-20	25-Jul-22	100%	100%										
76		STEEL SPAN ASSEMBLY_MP176 - MP177_G1	220	03-May-21	26-May-21	03-Jul-21	25-Jul-22	100%	100%										
77		STEEL SPAN ASSEMBLY_MP176 - MP177_G2	120	25-Jun-21	28-Jul-21	02-Nov-21	01-Mar-22	100%	100%										
78		STEEL SPAN ASSEMBLY_MP177 - MP178_G1	68	28-Jun-21	08-Aug-21	05-May-21	28-Oct-21	100%	100%										
79		STEEL SPAN ASSEMBLY_MP177 - MP178_G2	75	20-Aug-21	18-Sep-21	18-Oct-21	04-Jan-22	100%	100%										
80		STEEL SPAN ASSEMBLY_MP178 - MP179_G1	71	05-Mar-21	27-Mar-21	09-Mar-21	29-Jun-21	100%	100%										
81		STEEL SPAN ASSEMBLY_MP178 - MP179_G2	74	26-Apr-21	19-May-21	17-Apr-21	30-Aug-21	100%	100%										
82		STEEL SPAN ASSEMBLY_MP179 - MP180_G1	77	02-Jan-21	25-Jan-21	19-Jan-21	28-May-21	100%	100%										
83		STEEL SPAN ASSEMBLY_MP179 - MP180_G2	184	25-Feb-21	20-Mar-21	08-Feb-21	27-Oct-21	100%	100%										
84		STEEL SPAN ASSEMBLY_MP180 - MP181_G1	73	02-Nov-20	25-Nov-20	15-Jan-21	03-May-21	100%	100%										
85		STEEL SPAN ASSEMBLY_MP180 - MP181_G2	55	19-Dec-20	11-Jan-21	28-Dec-20	04-Jun-21	100%	100%										
86		STEEL SPAN ASSEMBLY_MP181 - MP182_G1	72	05-Sep-20	28-Sep-20	23-Nov-20	23-Mar-21	100%	100%										
87		STEEL SPAN ASSEMBLY_MP181 - MP182_G2	78	22-Oct-20	14-Nov-20	08-Dec-20	31-Mar-21	100%	100%										
88		STEEL MODULE-03_MP186 - MP183 (ASSEMBLY WORKS)	418	06-Jul-21	23-Nov-21	25-May-21	05-Mar-23	100%	100%										
89		STEEL SPAN ASSEMBLY_MP182 - MP183_G1	153	09-Aug-21	18-Oct-21	28-May-22	06-Feb-23	100%	100%										
90		STEEL SPAN ASSEMBLY_MP182 - MP183_G2	247	24-Aug-21	28-Oct-21	24-Mar-22	05-Mar-23	100%	100%										
91		STEEL SPAN ASSEMBLY_MP183 - MP184_G1	153	04-Oct-21	28-Oct-21	24-Jan-22	24-Jan-23	100%	100%										
92		STEEL SPAN ASSEMBLY_MP183 - MP184_G2	170	01-Nov-21	23-Nov-21	22-Feb-22	02-Feb-23	100%	100%										
93		STEEL SPAN ASSEMBLY_MP184 - MP185_G1	274	24-Jul-21	08-Oct-21	10-Jul-21	29-Dec-22	100%	100%										
94		STEEL SPAN ASSEMBLY_MP184 - MP185_G2	198	05-Aug-21	08-Oct-21	02-Dec-21	06-Jan-23	100%	100%										
95		STEEL SPAN ASSEMBLY_MP185 - MP186_G1	325	06-Jul-21	16-Aug-21	25-May-21	25-Nov-22	100%	100%										
96		STEEL SPAN ASSEMBLY_MP185 - MP186_G2	323	10-Jul-21	28-Sep-21	29-May-21	25-Nov-22	100%	100%										
97		STEEL SPAN LOADING AND TRANSPORTING TO THE ERECTION AREA	284	30-Sep-20	19-Feb-22	30-Dec-21	04-May-23	100%	100%										
98		STEEL MODULE-01_MP176 - MP171 (LOAD OUT AND TRANSPORT)	125	03-Dec-21	19-Feb-22	17-Dec-22	04-May-23	100%	100%										
99		STEEL MODULE-02_MP182 - MP177 (LOAD OUT AND TRANSPORT)	129	30-Sep-20	21-Sep-21	30-Dec-21	13-Dec-22	100%	100%										
100		STEEL MODULE-03_MP186 - MP183 (LOAD OUT AND TRANSPORT)	104	01-Sep-21	25-Nov-21	17-Nov-22	13-Mar-23	100%	100%										
101		MAIN BRIDGE	1904	03-Sep-18	24-May-22	08-Dec-18		100%	97.57%										
102		MAIN BRIDGE FOUNDATION	1402	03-Sep-18	23-Mar-21	08-Dec-18	13-Oct-22	100%	100%										
103		MAIN BRIDGE PILE FOUNDATION	1198	03-Sep-18	23-Jan-21	08-Dec-18	21-Feb-22	100%	100%										
104		PILE LOAD TEST	386	03-Sep-18	19-Nov-18	08-Dec-18	11-Nov-19	100%	100%										
105		MAIN BRIDGE PILE FOUNDATION LAND 17+414-18+187 FROM MP250 TO MP266	323	30-Nov-18	15-May-19	17-Jan-19	11-Jun-20	100%	100%										
106		MODULE-21_MP261 - MP257	126	30-Nov-18	05-Mar-19	23-Aug-19	06-Mar-20	100%	100%										
107		MODULE-22_MP266 - MP262	167	06-Mar-19	15-May-19	17-Jan-19	28-Jan-20	100%	100%										
108		MODULE-20_MP256 - MP255	32	05-Dec-18	10-Jan-19	25-Sep-19	19-Mar-20	100%	100%										
109		MODULE-19_MP254 - MP250	199	11-Jan-19	16-Apr-19	05-Oct-19	11-Jun-20	100%	100%										
110		MAIN BRIDGE PILE FOUNDATION CRZ 15+890-17+414 FROM MP226 TO MP250	268	20-Dec-18	27-Nov-19	12-Jun-19	21-Feb-20	100%	100%										
111		MODULE-14_MP231 - MP227	48	17-Aug-19	27-Nov-19	08-Nov-19	21-Feb-20	100%	100%										
112		MODULE-15_MP236 - MP232	77	08-Mar-19	26-Aug-19	08-Aug-19	25-Dec-19	100%	100%										
113		MODULE-16_MP240 - MP237	113	20-Dec-18	08-Mar-19	12-Jun-19	11-Nov-19	100%	100%										
114		MODULE-17_MP245 - MP241	94	20-Mar-19	17-Jun-19	09-Oct-19	04-Jan-20	100%	100%										
115		MODULE-18_MP249 - MP246	74	21-Jan-19	28-Mar-19	15-Oct-19	09-Feb-20	100%	100%										
116		MAIN BRIDGE PILE FOUNDATION INTERTIDAL 14+800-15+890 FROM MP206 TO MP225	417	27-Feb-19	06-Jun-20	15-Oct-19	26-Aug-20	100%	100%										
117		MODULE-10_MP211 - MP207	243	12-Mar-20	06-Jun-20	01-Nov-19	18-Feb-20	100%	100%										
118		MODULE-11_MP216 - MP212	277	27-Feb-19	03-Apr-20	15-Oct-19	24-Feb-20	100%	100%										
119		MODULE-12_MP221 - MP217	225	06-Apr-19	30-Oct-19	25-Feb-20	26-Aug-20	100%	100%										
120		MODULE-13_MP226 - MP222	313	30-Oct-19	06-Feb-20	24-Jan-20	16-Jun-20	100%	100%										
121		MAIN BRIDGE PILE FOUNDATION MARINE 13+610-14+800 FROM MP187 TO MP205	531	12-Dec-19	28-Nov-20	01-Oct-19	07-Feb-22	100%	100%										
122		MODULE-09_MP206 - MP202	340	12-Dec-19	06-Mar-20	01-Oct-19	13-Oct-20	100%	100%										

Actual Level of Effort █ Critical Remaining Work
Actual Work ◆ Milestone
Remaining Work █ summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
123		MODULE-08_MP201 - MP197	262	22-Feb-20	19-May-20	19-Feb-20	25-Dec-20	100%	100%										
124		MODULE-07_MP196 - MP192	146	02-May-20	08-Sep-20	12-Oct-20	07-Feb-22	100%	100%										
125		MODULE-06_MP191 - MP187	82	21-Aug-20	28-Nov-20	31-Aug-20	10-Dec-20	100%	100%										
126		MAIN BRIDGE PILE FOUNDATION MARINE (STEEL) 11+880~13+610 FROM MP171 TO MP186	678	27-Nov-19	23-Jan-21	17-Mar-20	21-Feb-22	100%	100%										
127		STEEL MODULE-03_MP186 - MP183	80	30-May-20	21-Nov-20	08-Oct-20	15-Feb-21	100%	100%										
128		STEEL MODULE-02_MP182 - MP177	336	27-Nov-19	10-Sep-20	17-Mar-20	25-Jan-21	100%	100%										
129		STEEL MODULE-01_MP176 - MP171	185	30-Jul-20	23-Jan-21	19-Apr-21	21-Feb-22	100%	100%										
130		MAIN BRIDGE PILE FOUNDATION MARINE 10+380~11+880 FROM MP146 TO MP170	723	24-Nov-18	28-Dec-19	19-Feb-19	21-Dec-21	100%	100%										
131		MODULE-05_MP171 - MP167	193	19-Jun-19	16-Oct-19	24-Feb-21	21-Dec-21	100%	100%										
132		MODULE-04_MP166 - MP162	507	24-Nov-18	18-Feb-19	19-Feb-19	20-Feb-21	100%	100%										
133		MODULE-03_MP161 - MP157	393	22-Jan-19	18-Apr-19	03-Apr-19	25-Mar-21	100%	100%										
134		MODULE-02_MP156 - MP152	94	16-Apr-19	27-Jul-19	21-Dec-20	27-Mar-21	100%	100%										
135		MODULE-01_MP151 - MP146	107	04-Oct-19	28-Dec-19	23-Dec-20	03-Apr-21	100%	100%										
136		MAIN BRIDGE PILE CAP INSTALLATION	1135	22-Dec-18	23-Mar-21	01-May-19	13-Oct-22	100%	100%										
137		MAIN BRIDGE PILE CAP BOTTOM SLAB INSTALLATION	1008	22-Dec-18	17-Feb-21	19-Aug-19	23-Sep-22	0%	0%										
138		MAIN BRIDGE PILE CAP BOTTOM SLAB_CRZ 15+890~17+414 FROM MP226 TO MP250	356	17-Jan-19	12-Dec-19	19-Aug-19	28-May-20	0%	0%										
139		MODULE-14_MP231 - MP227	168	28-Sep-19	12-Dec-19	24-Dec-19	28-May-20	0%	0%										
140		MODULE-15_MP236 - MP232	71	05-Apr-19	11-Sep-19	02-Nov-19	21-Feb-20	0%	0%										
141		MODULE-16_MP240 - MP237	142	17-Jan-19	20-Mar-19	19-Aug-19	23-Feb-20	0%	0%										
142		MODULE-17_MP245 - MP241	44	17-Apr-19	03-Jul-19	22-Oct-19	04-Jan-20	0%	0%										
143		MODULE-18_MP249 - MP246	63	19-Feb-19	12-Apr-19	08-Nov-19	10-Feb-20	0%	0%										
144		MAIN BRIDGE PILE CAP BOTTOM SLAB_INTERTIDAL 14+800~15+890 FROM MP206 TO MP225	186	06-Apr-19	18-Jul-20	30-Dec-19	30-Nov-20	0%	0%										
145		MODULE-10_MP211 - MP207	95	15-Apr-20	18-Jul-20	30-Dec-19	30-Sep-20	0%	0%										
146		MODULE-11_MP216 - MP212	128	06-Apr-19	15-Apr-20	09-Mar-20	19-Oct-20	0%	0%										
147		MODULE-12_MP221 - MP217	74	10-May-19	12-Nov-19	11-Sep-20	30-Nov-20	0%	0%										
148		MODULE-13_MP226 - MP222	59	03-Dec-19	18-Feb-20	27-Apr-20	26-Oct-20	0%	0%										
149		MAIN BRIDGE PILE CAP BOTTOM SLAB MARINE 13+610~14+800 FROM MP187 TO MP205	420	21-Jan-20	10-Dec-20	16-Nov-19	09-May-22	0%	0%										
150		MODULE-09_MP206 - MP202	289	21-Jan-20	20-Mar-20	16-Nov-19	11-Nov-20	0%	0%										
151		MODULE-08_MP201 - MP197	50	23-Mar-20	30-May-20	11-Nov-20	25-Feb-21	0%	0%										
152		MODULE-07_MP196 - MP192	153	30-May-20	08-Oct-20	15-Oct-20	09-May-22	0%	0%										
153		MODULE-06_MP191 - MP187	77	08-Oct-20	10-Dec-20	20-Nov-20	26-Jan-21	0%	0%										
154		MAIN BRIDGE PILE CAP PRECAST SHELL MARINE (STEEL) 11+880~13+610 FROM MP171 TO MP186	422	08-Jan-20	17-Feb-21	11-Oct-20	23-Sep-22	0%	0%										
155		STEEL MODULE-01_MP176 - MP171	167	02-Nov-20	17-Feb-21	05-Nov-21	23-Sep-22	0%	0%										
156		STEEL MODULE-02_MP182 - MP177	118	08-Jan-20	26-Sep-20	11-Oct-20	26-Feb-21	0%	0%										
157		STEEL MODULE-03_MP186 - MP183	194	07-Aug-20	03-Dec-20	19-Jan-21	20-May-22	0%	0%										
158		MAIN BRIDGE PILE CAP BOTTOM SLAB MARINE 10+380~11+880 FROM MP146 TO MP170	300	22-Dec-18	21-Jan-20	28-Jan-21	22-Jan-22	0%	0%										
159		MODULE-05_MP171 - MP167	108	24-Aug-19	28-Oct-19	26-Mar-21	05-Jan-22	0%	0%										
160		MODULE-04_MP166 - MP162	199	22-Dec-18	01-Mar-19	15-Feb-21	22-Jan-22	0%	0%										
161		MODULE-03_MP161 - MP157	111	01-Mar-19	10-May-19	28-Jan-21	20-Oct-21	0%	0%										
162		MODULE-02_MP156 - MP152	53	15-May-19	16-Aug-19	15-Feb-21	17-May-21	0%	0%										
163		MODULE-01_MP151 - MP146	158	01-Nov-19	21-Jan-20	11-Feb-21	24-Oct-21	0%	0%										
164		MAIN BRIDGE PILE CAP INSTALLATION	1119	27-Dec-18	23-Mar-21	01-May-19	13-Oct-22	100%	100%										
165		MAIN BRIDGE PILE CAP LAND 17+414~18+188 FROM MP251 TO MP266	377	27-Dec-18	13-Jun-19	01-May-19	27-Jun-20	100%	100%										
166		MODULE-21_MP261 - MP257	248	27-Dec-18	30-Mar-19	15-Oct-19	27-Jun-20	100%	100%										
167		MODULE-22_MP266 - MP262	207	02-Apr-19	13-Jun-19	01-May-19	16-May-20	100%	100%										
168		MODULE-20_MP256 - MP255	54	01-Jan-19	06-Feb-19	29-Nov-19	23-May-20	100%	100%										
169		MODULE-19_MP254 - MP250	218	08-Feb-19	13-May-19	23-Nov-19	20-Jun-20	100%	100%										
170		MAIN BRIDGE PILE CAP_CRZ 15+890~17+414 FROM MP226 TO MP250	328	04-Mar-19	08-Jan-20	28-Aug-19	19-Sep-20	100%	100%										
171		MODULE-14_MP231 - MP227	230	24-Oct-19	08-Jan-20	11-Jan-20	19-Sep-20	100%	100%										
172		MODULE-15_MP236 - MP232	201	02-Sep-19	22-Nov-19	16-Nov-19	18-Sep-20	100%	100%										
173		MODULE-16_MP240 - MP237	146	02-Jul-19	26-Sep-19	28-Aug-19	05-Mar-20	100%	100%										
174		MODULE-17_MP245 - MP241	98	29-Apr-19	16-Aug-19	17-Nov-19	24-Jan-20	100%	100%										
175		MODULE-18_MP249 - MP246	84	04-Mar-19	10-May-19	13-Nov-19	14-Feb-20	100%	100%										
176		MAIN BRIDGE PILE CAP_INTERTIDAL 14+800~15+890 FROM MP206 TO MP225	199	18-Apr-19	05-Sep-20	29-Jan-20	07-Dec-20	100%	100%										
177		MODULE-10_MP211 - MP207	96	27-Apr-20	05-Sep-20	29-Jan-20	07-Oct-20	100%	100%										
178		MODULE-11_MP216 - MP212	157	18-Apr-19	13-May-20	31-Aug-20	24-Oct-20	100%	100%										
179		MODULE-12_MP221 - MP217	111	22-May-19	09-Dec-19	17-Sep-20	07-Dec-20	100%	100%										
180		MODULE-13_MP226 - MP222	94	14-Dec-19	17-Mar-20	16-Sep-20	19-Nov-20	100%	100%										
181		MAIN BRIDGE PILE CAP MARINE 13+610~14+800 FROM MP187 TO MP205	413	01-Feb-20	06-Jan-21	13-Jan-20	23-May-22	100%	100%										
182		MODULE-09_MP206 - MP202	288	01-Feb-20	16-Apr-20	13-Jan-20	20-Nov-20	100%	100%										
183		MODULE-08_MP201 - MP197	63	03-Apr-20	06-Jul-20	23-Nov-20	04-Mar-21	100%	100%										
184		MODULE-07_MP196 - MP192	97	15-Jun-20	11-Nov-20	01-Dec-20	23-May-22	100%	100%										

Actual Level of Effort Critical Remaining Work
Actual Work Milestone
Remaining Work summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

MUMBAI TRANS HARBOUR LINK
GENERAL CONSULTANT
GC

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION
(CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJINAGAR INTERCHANGE
UNDER IDENTIFICATION NO MMRDA/ENG/000753

ANNEXURE-5 CONSTRUCTION UPDATED
PROGRAMME_ABSTRACT (PACKAGE 2)

4 of 9

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
185		MODULE-06_MP191 - MP187	90	21-Oct-20	06-Jan-21	14-Dec-20	30-Jan-21	100%	100%										
186		MAIN BRIDGE PILE CAP_MARINE (STEEL) 11+880-13+610 FROM MP171 TO MP186	485	20-Jan-20	23-Mar-21	18-Nov-20	13-Oct-22	100%	100%										
187		STEEL MODULE-01_MP176 - MP171	154	21-Nov-20	23-Mar-21	13-Dec-21	13-Oct-22	100%	100%										
188		STEEL MODULE-02_MP182 - MP177	158	20-Jan-20	02-Nov-20	18-Nov-20	08-Mar-21	100%	100%										
189		STEEL MODULE-03_MP186 - MP183	330	27-Aug-20	07-Jan-21	28-Jan-21	28-May-22	100%	100%										
190		MAIN BRIDGE PILE CAP_MARINE 10+380-11+880 FROM MP146 TO MP170	323	03-Jan-19	17-Feb-20	08-Feb-21	23-Mar-22	100%	100%										
191		MODULE-05_MP171 - MP167	119	10-Sep-19	25-Nov-19	13-Apr-21	22-Jan-22	100%	100%										
192		MODULE-04_MP166 - MP162	283	03-Jan-19	29-Mar-19	01-Mar-21	23-Mar-22	100%	100%										
193		MODULE-03_MP161 - MP157	141	14-Mar-19	08-Jun-19	08-Feb-21	28-Oct-21	100%	100%										
194		MODULE-02_MP156 - MP152	54	27-May-19	26-Sep-19	06-Mar-21	27-May-21	100%	100%										
195		MODULE-01_MP151 - MP146	192	14-Nov-19	17-Feb-20	22-Feb-21	03-Nov-21	100%	100%										
196		MAIN BRIDGE SUB-STRUCTURE	1274	09-Jan-19	24-Sep-21	04-Nov-19	29-Mar-23	100%	100%										
197		MAIN BRIDGE PIER INSTALLATION	1242	09-Jan-19	25-Jul-21	04-Nov-19	28-Nov-22	100%	100%										
198		MAIN BRIDGE PIER LAND 17+414-18+188 FROM MB251 TO MB266	681	09-Jan-19	08-Nov-19	06-Nov-19	27-Aug-21	100%	100%										
199		MODULE-21_MP261 - MP257	301	14-Jan-19	12-Jul-19	27-May-20	03-May-21	100%	100%										
200		MODULE-22_MP266 - MP262	315	04-May-19	08-Nov-19	06-Nov-19	02-Feb-21	100%	100%										
201		MODULE-20_MP256 - MP255	225	09-Jan-19	17-May-19	11-May-20	21-Jun-21	100%	100%										
202		MODULE-19_MP254 - MP250	336	28-Feb-19	20-Sep-19	15-Jun-20	27-Aug-21	100%	100%										
203		MAIN BRIDGE PIER CRZ 15+890-17+414 FROM MB226 TO MB250	393	26-Mar-19	06-Feb-20	04-Nov-19	11-Aug-21	100%	100%										
204		MODULE-14_MP231 - MP227	228	05-Dec-19	06-Feb-20	02-Feb-20	22-Jan-21	100%	100%										
205		MODULE-15_MP236 - MP232	134	16-Oct-19	19-Dec-19	06-Jan-20	06-Nov-20	100%	100%										
206		MODULE-16_MP240 - MP237	85	13-Aug-19	30-Oct-19	04-Nov-19	27-Jun-20	100%	100%										
207		MODULE-17_MP245 - MP241	171	22-May-19	25-Sep-19	24-Dec-19	23-Jun-20	100%	100%										
208		MODULE-18_MP249 - MP246	238	26-Mar-19	06-Jun-19	02-Mar-20	11-Aug-21	100%	100%										
209		MAIN BRIDGE PIER INTERTIDAL 14+800-15+890 FROM MB206 TO MB225	417	11-May-19	16-Oct-20	10-Feb-20	08-Jun-21	100%	100%										
210		MODULE-10_MP211 - MP207	338	24-Feb-20	16-Oct-20	10-Feb-20	03-Feb-21	100%	100%										
211		MODULE-11_MP216 - MP212	386	11-May-19	17-Jul-20	13-Nov-20	22-Mar-21	100%	100%										
212		MODULE-12_MP221 - MP217	97	17-Jun-19	03-Jan-20	30-Nov-20	08-Jun-21	100%	100%										
213		MODULE-13_MP226 - MP222	235	06-Jan-20	15-May-20	29-Oct-20	20-Feb-21	100%	100%										
214		MAIN BRIDGE PIER MARINE 13+610-14+800 FROM MB187 TO MB205	316	19-Mar-20	18-Feb-21	04-Jan-21	17-Nov-22	100%	100%										
215		MODULE-06_MP191 - MP187	173	13-Nov-20	18-Feb-21	19-Oct-21	24-Jan-22	100%	100%										
216		MODULE-07_MP186 - MP182	176	17-Jul-20	19-Dec-20	28-Apr-21	17-Nov-22	100%	100%										
217		MODULE-08_MP201 - MP197	162	25-Apr-20	03-Sep-20	04-Jan-21	16-Oct-21	100%	100%										
218		MODULE-09_MP206 - MP202	66	19-Mar-20	23-May-20	18-Jan-21	18-Mar-21	100%	100%										
219		MAIN BRIDGE PIER MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB186	538	17-Feb-20	28-Jul-21	08-Feb-21	28-Nov-22	100%	100%										
220		STEEL MODULE-01_MP176 - MP171	230	23-Dec-20	28-Jul-21	21-Jan-22	28-Nov-22	100%	100%										
221		STEEL MODULE-02_MP182 - MP177	170	17-Feb-20	15-Jan-21	08-Feb-21	18-Jan-22	100%	100%										
222		STEEL MODULE-03_MP186 - MP183	290	06-Oct-20	03-Apr-21	12-Oct-21	10-Nov-22	100%	100%										
223		MAIN BRIDGE PIER MARINE 10+380-11+880 FROM MB146 TO MB170	187	07-Feb-19	13-Mar-20	20-Sep-21	17-May-22	100%	100%										
224		MODULE-01_MP151 - MP146	129	10-Dec-19	13-Mar-20	20-Sep-21	07-Jan-22	100%	100%										
225		MODULE-02_MP156 - MP152	77	11-Jul-19	04-Nov-19	25-Oct-21	29-Jan-22	100%	100%										
226		MODULE-03_MP161 - MP157	61	22-Apr-19	01-Aug-19	31-Dec-21	12-Mar-22	100%	100%										
227		MODULE-04_MP166 - MP162	84	07-Feb-19	06-May-19	24-Jan-22	28-Apr-22	100%	100%										
228		MODULE-05_MP171 - MP167	69	10-Oct-19	31-Dec-19	18-Feb-22	17-May-22	100%	100%										
229		MAIN BRIDGE PIER CAP INSTALLATION	936	08-Feb-19	27-Aug-21	25-Feb-20	29-Mar-23	100%	100%										
230		MAIN BRIDGE PIER CAP LAND 17+414-18+188 FROM MB251 TO MB266	313	08-Feb-19	23-Nov-19	13-Nov-20	17-Jan-22	100%	100%										
231		MODULE-21_MP261 - MP257	159	13-Feb-19	05-Aug-19	11-Feb-21	14-Oct-21	100%	100%										
232		MODULE-22_MP266 - MP262	114	03-Jun-19	23-Nov-19	13-Nov-20	13-Mar-21	100%	100%										
233		MODULE-20_MP256 - MP255	182	08-Feb-19	01-Jun-19	07-Jan-21	22-Nov-21	100%	100%										
234		MODULE-19_MP254 - MP250	212	30-Mar-19	09-Oct-19	01-Mar-21	17-Jan-22	100%	100%										
235		MAIN BRIDGE PIER CAP CRZ 15+890-17+414 FROM MB226 TO MB250	405	19-Apr-19	25-Feb-20	25-Feb-20	24-Sep-21	100%	100%										
236		MODULE-14_MP231 - MP227	83	30-Dec-19	25-Feb-20	27-Dec-20	28-May-21	100%	100%										
237		MODULE-15_MP236 - MP232	64	11-Nov-19	07-Jan-20	12-Oct-20	22-Feb-21	100%	100%										
238		MODULE-16_MP240 - MP237	132	21-Sep-19	19-Nov-19	14-May-20	23-Dec-20	100%	100%										
239		MODULE-17_MP245 - MP241	163	05-Jul-19	16-Oct-19	25-Feb-20	22-Dec-20	100%	100%										
240		MODULE-18_MP249 - MP246	201	19-Apr-19	02-Jul-19	22-Oct-20	24-Sep-21	100%	100%										
241		MAIN BRIDGE PIER CAP INTERTIDAL 14+800-15+890 FROM MB206 TO MB225	277	06-Jun-19	05-Nov-20	04-Feb-21	14-Jan-22	100%	100%										
242		MODULE-10_MP211 - MP207	174	20-Mar-20	05-Nov-20	02-Aug-21	14-Jan-22	100%	100%										
243		MODULE-11_MP216 - MP212	209	06-Jun-19	18-Aug-20	21-Jun-21	26-Nov-21	100%	100%										
244		MODULE-12_MP221 - MP217	100	24-Jul-19	22-Jan-20	01-Mar-21	24-Sep-21	100%	100%										
245		MODULE-13_MP226 - MP222	187	30-Jan-20	04-Jun-20	04-Feb-21	07-Jul-21	100%	100%										
		MAIN BRIDGE PIER CAP MARINE 13+610-14+800 FROM MB187 TO MB205	195	23-Apr-20	10-Mar-21	03-May-21	27-Mar-23	100%	100%										

Actual Level of Effort █ Critical Remaining Work
Actual Work ◆ Milestone
Remaining Work ▬ summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	27
247		MODULE-06_MP191 - MP187	160	18-Dec-20	10-Mar-21	20-Jan-22	10-Jan-23	100%	100%										10-Jan-23 A, MODULE-06_MP191 - MP187
248		MODULE-07_MP196 - MP192	195	10-Sep-20	07-Jan-21	18-Nov-21	27-Mar-23	100%	100%										27-Mar-23 A, MODULE-07_MP196 - MP192
249		MODULE-08_MP201 - MP197	114	01-Jun-20	29-Sep-20	03-May-21	08-Mar-22	100%	100%										08-Mar-22 A, MODULE-08_MP201 - MP197
250		MODULE-09_MP206 - MP202	46	23-Apr-20	15-Jun-20	09-Dec-21	09-Feb-22	100%	100%										09-Feb-22 A, MODULE-09_MP206 - MP202
251		MAIN BRIDGE PIER CAP MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB186	384	30-Apr-20	27-Aug-21	23-Aug-21	28-Feb-23	100%	100%										28-Feb-23 A, MAIN BRIDGE PIER CAP MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB186
252		STEEL MODULE-01_MP176 - MP171	229	08-Mar-21	27-Aug-21	17-Mar-22	28-Feb-23	100%	100%										28-Feb-23 A, STEEL MODULE-01_MP176 - MP171
253		STEEL MODULE-02_MP182 - MP177	148	30-Apr-20	04-Feb-21	23-Aug-21	04-Apr-22	100%	100%										04-Apr-22 A, STEEL MODULE-02_MP182 - MP177
254		STEEL MODULE-03_MP186 - MP183	198	19-Dec-20	22-Apr-21	24-Feb-22	03-Dec-22	100%	100%										03-Dec-22 A, STEEL MODULE-03_MP186 - MP183
255		MAIN BRIDGE PIER CAP MARINE 10+380-11+880 FROM MB146 TO MB170	245	15-Mar-19	01-Apr-20	17-Dec-21	29-Mar-23	100%	100%										29-Mar-23 A, MAIN BRIDGE PIER CAP MARINE 10+380-11+880 FROM MB146 TO MB170
256		MODULE-01_MP151 - MP146	121	14-Jan-20	01-Apr-20	17-Dec-21	26-May-22	100%	100%										26-May-22 A, MODULE-01_MP151 - MP146
257		MODULE-02_MP156 - MP152	165	05-Sep-19	23-Nov-19	17-Feb-22	12-Nov-22	100%	100%										12-Nov-22 A, MODULE-02_MP156 - MP152
258		MODULE-03_MP161 - MP157	167	28-May-19	31-Aug-19	22-Mar-22	21-Dec-22	100%	100%										21-Dec-22 A, MODULE-03_MP161 - MP157
259		MODULE-04_MP166 - MP162	187	15-Mar-19	24-May-19	21-Apr-22	09-Feb-23	100%	100%										09-Feb-23 A, MODULE-04_MP166 - MP162
260		MODULE-05_MP171 - MP167	68	15-Nov-19	18-Jan-20	10-Jan-23	29-Mar-23	100%	100%										29-Mar-23 A, MODULE-05_MP171 - MP167
261		MAIN BRIDGE BEARING PAD AND BEARING INSTALLATION	847	22-Feb-19	24-Sep-21	14-Sep-20	29-Mar-23	100%	100%										29-Mar-23 A, MAIN BRIDGE BEARING PAD AND BEARING INSTALLATION
262		MAIN BRIDGE BEARING LAND 17+414-18+188 FROM MB251 TO MB266	393	22-Feb-19	22-Aug-19	11-Feb-21	04-Jun-22	100%	100%										04-Jun-22 A, MAIN BRIDGE BEARING LAND 17+414-18+188 FROM MB251 TO MB266
263		MODULE-19_MP254 - MP250	240	13-Apr-19	21-May-19	23-Jul-21	04-Jun-22	100%	100%										04-Jun-22 A, MODULE-19_MP254 - MP250
264		MODULE-20_MP256 - MP253	242	22-Feb-19	02-Apr-19	24-Feb-21	04-Dec-21	100%	100%										04-Dec-21 A, MODULE-20_MP256 - MP253
265		MODULE-21_MP261 - MP257	28	29-May-19	08-Jul-19	20-Apr-21	15-Sep-21	100%	100%										15-Sep-21 A, MODULE-21_MP261 - MP257
266		MODULE-22_MP266 - MP262	28	22-Jun-19	22-Aug-19	11-Feb-21	03-Apr-21	100%	100%										03-Apr-21 A, MODULE-22_MP266 - MP262
267		MAIN BRIDGE BEARING CRZ 15+890-17+414 FROM MB226 TO MB250	392	08-May-19	20-Feb-20	14-Sep-20	09-Sep-21	100%	100%										09-Sep-21 A, MAIN BRIDGE BEARING CRZ 15+890-17+414 FROM MB226 TO MB250
268		MODULE-14_MP231 - MP227	28	16-Jan-20	20-Feb-20	29-Jan-21	24-Feb-21	100%	100%										24-Feb-21 A, MODULE-14_MP231 - MP227
269		MODULE-15_MP236 - MP232	28	28-Nov-19	02-Jan-20	29-Jan-21	24-Feb-21	100%	100%										24-Feb-21 A, MODULE-15_MP236 - MP232
270		MODULE-16_MP240 - MP237	28	12-Oct-19	16-Nov-19	12-Apr-21	20-May-21	100%	100%										20-May-21 A, MODULE-16_MP240 - MP237
271		MODULE-17_MP245 - MP241	28	03-Aug-19	13-Sep-19	14-Sep-20	03-Dec-20	100%	100%										03-Dec-20 A, MODULE-17_MP245 - MP241
272		MODULE-18_MP249 - MP246	324	08-May-19	12-Jun-19	18-Jan-21	09-Sep-21	100%	100%										09-Sep-21 A, MODULE-18_MP249 - MP246
273		MAIN BRIDGE BEARING INTERTIDAL 14+800-15+890 FROM MB206 TO MB225	28	29-Jun-19	14-Sep-20	01-Oct-21	08-Feb-22	100%	100%										08-Feb-22 A, MAIN BRIDGE BEARING INTERTIDAL 14+800-15+890 FROM MB206 TO MB225
274		MODULE-10_MP211 - MP207	28	04-Aug-20	14-Sep-20	10-Jan-22	08-Feb-22	100%	100%										08-Feb-22 A, MODULE-10_MP211 - MP207
275		MODULE-11_MP216 - MP212	28	29-Jun-19	07-Aug-19	09-Dec-21	04-Jan-22	100%	100%										04-Jan-22 A, MODULE-11_MP216 - MP212
276		MODULE-12_MP221 - MP217	28	15-Jan-20	19-Feb-20	09-Nov-21	27-Dec-21	100%	100%										27-Dec-21 A, MODULE-12_MP221 - MP217
277		MODULE-13_MP226 - MP222	28	27-May-20	02-Jul-20	01-Oct-21	18-Oct-21	100%	100%										18-Oct-21 A, MODULE-13_MP226 - MP222
278		MAIN BRIDGE BEARING MARINE 13+610-14+800 FROM MB187 TO MB205	319	07-Apr-20	09-Feb-21	22-Feb-22	02-Mar-23	100%	100%										02-Mar-23 A, MAIN BRIDGE BEARING MARINE 13+610-14+800 FROM MB187 TO MB205
279		MODULE-06_MP191 - MP187	151	05-Jan-21	09-Feb-21	18-Nov-22	24-Feb-23	100%	100%										24-Feb-23 A, MODULE-06_MP191 - MP187
280		MODULE-07_MP196 - MP192	280	05-Oct-20	04-Feb-21	26-May-22	02-Mar-23	100%	100%										02-Mar-23 A, MODULE-07_MP196 - MP192
281		MODULE-08_MP201 - MP197	28	24-Jun-20	01-Aug-20	01-Apr-22	30-Apr-22	100%	100%										30-Apr-22 A, MODULE-08_MP201 - MP197
282		MODULE-09_MP206 - MP202	28	07-Apr-20	12-May-20	22-Feb-22	18-Mar-22	100%	100%										18-Mar-22 A, MODULE-09_MP206 - MP202
283		MAIN BRIDGE BEARING MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB186	452	19-May-20	24-Sep-21	22-Dec-21	29-Mar-23	100%	100%										29-Mar-23 A, MAIN BRIDGE BEARING MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB186
284		STEEL MODULE-01_MP176 - MP171	210	25-Mar-21	24-Sep-21	27-Oct-22	29-Mar-23	100%	100%										29-Mar-23 A, STEEL MODULE-01_MP176 - MP171
285		STEEL MODULE-02_MP182 - MP177	393	19-May-20	04-Mar-21	22-Dec-21	17-Nov-22	100%	100%										17-Nov-22 A, STEEL MODULE-02_MP182 - MP177
286		STEEL MODULE-03_MP186 - MP183	151	06-Jan-21	20-May-21	21-Oct-22	28-Feb-23	100%	100%										28-Feb-23 A, STEEL MODULE-03_MP186 - MP183
287		MAIN BRIDGE BEARING MARINE 10+380-11+880 FROM MB146 TO MB170	126	25-Apr-19	18-Apr-20	02-Nov-22	22-Mar-23	100%	100%										22-Mar-23 A, MAIN BRIDGE BEARING MARINE 10+380-11+880 FROM MB146 TO MB170
288		MODULE-01_MP151 - MP146	59	31-Jan-20	18-Apr-20	02-Nov-22	01-Dec-22	100%	100%										01-Dec-22 A, MODULE-01_MP151 - MP146
289		MODULE-02_MP156 - MP152	28	03-Oct-19	07-Nov-19	02-Jan-23	05-Jan-23	100%	100%										05-Jan-23 A, MODULE-02_MP156 - MP152
290		MODULE-03_MP161 - MP157	28	03-Jul-19	10-Aug-19	13-Feb-23	16-Feb-23	100%	100%										16-Feb-23 A, MODULE-03_MP161 - MP157
291		MODULE-04_MP166 - MP162	28	25-Apr-19	31-May-19	14-Mar-23	22-Mar-23	100%	100%										22-Mar-23 A, MODULE-04_MP166 - MP162
292		MODULE-05_MP171 - MP167	0					0%	0%										
293		MAIN BRIDGE SUPER STRUCTURE BOX GIRDER INSTALLATION	1059	12-Sep-19	01-Mar-22	20-Jul-20	19-May-23	100%	100%										19-May-23 A, MAIN BRIDGE SUPER STRUCTURE BOX GIRDER INSTALLATION
294		MAIN BRIDGE CONCRETE GIRDER INSTALLATION	1029	12-Sep-19	02-Feb-22	20-Jul-20	19-May-23	100%	100%										19-May-23 A, MAIN BRIDGE CONCRETE GIRDER INSTALLATION
295		MAIN BRIDGE PC GIRDER LAND 15+890-17+414 FROM MP251 TO MP266	766	12-Sep-19	27-Feb-20	20-Jul-20	02-Jul-22	100%	100%										02-Jul-22 A, MAIN BRIDGE PC GIRDER LAND 15+890-17+414 FROM MP251 TO MP266
296		CNLGA.1010 Assembly of Structural Parts in Launching Gantry_2	35	12-Sep-19	17-Oct-19	20-Jul-20	25-Dec-20	100%	100%										25-Dec-20 A, Assembly of Structural Parts in Launching Gantry_2
297		CNLGA.1000 Assembly of Structural Parts in Launching Gantry_1	35	12-Sep-19	17-Oct-19	12-Nov-20	17-Feb-21	100%	100%										17-Feb-21 A, Assembly of Structural Parts in Launching Gantry_1
298		CNLGA.1015 Assembly of Mechanical Parts in Launching Gantry_2	15	17-Oct-19	01-Nov-19	28-Sep-20	30-Dec-20	100%	100%										30-Dec-20 A, Assembly of Mechanical Parts in Launching Gantry_2
299		CNLGA.1005 Assembly of Mechanical Parts in Launching Gantry_1	15	17-Oct-19	01-Nov-19	05-Feb-21	06-Mar-21	100%	100%										06-Mar-21 A, Assembly of Mechanical Parts in Launching Gantry_1
300		MODULE-22_MP266 - MP262	191	01-Nov-19	25-Dec-19	02-Jul-21	29-Mar-22	100%	100%										29-Mar-22 A, MODULE-22_MP266 - MP262
301		MODULE-21_MP261 - MP257	192	02-Dec-19	23-Jan-20	18-Sep-21	25-May-22	100%	100%										25-May-22 A, MODULE-21_MP261 - MP257
302		MODULE-20_MP256 - MP255	162	31-Dec-19	04-Feb-20	06-Nov-21	15-Jun-22	100%	100%										15-Jun-22 A, MODULE-20_MP256 - MP255
303		MODULE-19_MP254 - MP250	161	11-Jan-20	27-Feb-20	26-Nov-21	02-Jul-22	100%	100%										02-Jul-22 A, MODULE-19_MP254 - MP250
304		MAIN BRIDGE PRECAST GIRDER CRZ 15+890-17+414 FROM MP226 TO MP250	214	04-Feb-20	25-Sep-20	30-Dec-20	25-Aug-22	100%	100%										25-Aug-22 A, MAIN BRIDGE PRECAST GIRDER CRZ 15+890-17+414 FROM MP226 TO MP250
305		MODULE-18_MP249 - MP246	104	04-Feb-20	28-Mar-20	20-Dec-21	25-Aug-22	100%	100%										25-Aug-22 A, MODULE-18_MP249 - MP246
306		MODULE-17_MP245 - MP241	74	05-Mar-20	27-Apr-20	30-Dec-20	16-May-21	100%	100%										16-May-21 A, MODULE-17_MP245 - MP241
307		MODULE-16_MP240 - MP237	37	03-Apr-20	21-May-20	13-Apr-21	03-Aug-21	100%	100%										03-Aug-21 A, MODULE-16_MP240 - MP237
308		MODULE-15_MP236 - MP232	31	27-Apr-20	19-Jun-20	06-Jul-21	22-Sep-21	100%	100%										22-Sep-21 A, MODULE-15_MP236 - MP232

Actual Level of Effort Critical Remaining Work
Actual Work Milestone
Remaining Work summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

MUMBAI TRANS HARBOUR LINK
GENERAL CONSULTANT
GC

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION
(CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJINAGAR INTERCHANGE
UNDER IDENTIFICATION NO MMRDA/ENG/000753

ANNEXURE-5 CONSTRUCTION UPDATED
PROGRAMME_ABSTRACT (PACKAGE 2)

6 of 9

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
309		MODULE-14_MP231 - MP227	42	27-May-20	25-Sep-20	27-Aug-21	10-Nov-21	100%	100%										
310		MAIN BRIDGE PRECAST GIRDER INTERTIDAL 14+800-15+890 FROM MP206 TO MP225	94	12-Sep-20	23-Jan-21	25-Oct-21	11-Apr-22	100%	100%										
311		MODULE-13_MP226 - MP222	39	12-Sep-20	21-Oct-20	25-Oct-21	10-Dec-21	100%	100%										
312		MODULE-12_MP221 - MP217	65	08-Oct-20	20-Nov-20	20-Nov-21	14-Jan-22	100%	100%										
313		MODULE-11_MP216 - MP212	85	09-Nov-20	19-Dec-20	27-Dec-21	27-Feb-22	100%	100%										
314		MODULE-10_MP211 - MP207	84	08-Dec-20	23-Jan-21	31-Jan-22	11-Apr-22	100%	100%										
315		MAIN BRIDGE PRECAST GIRDER MARINE 13+610-14+800 FROM MP187 TO MP205	174	12-Jan-21	10-Jun-21	19-Mar-22	08-May-23	100%	100%										
316	CNLGD.1010	Dismantling of Launching Gentry_2	20	12-May-21	03-Jun-21	04-Oct-22	07-Oct-22	100%	100%										
317	CNLGD.1000	Dismantling of Launching Gentry_1	20	18-May-21	10-Jun-21	14-Sep-22	20-Sep-22	100%	100%										
318		MODULE-09_MP206 - MP202	47	12-Jan-21	17-Feb-21	19-Mar-22	12-May-22	100%	100%										
319		MODULE-08_MP201 - MP197	26	05-Feb-21	19-Mar-21	17-Apr-22	27-Jun-22	100%	100%										
320		MODULE-07_MP196 - MP192	144	08-Mar-21	17-Apr-21	03-Jun-22	08-May-23	100%	100%										
321		MODULE-06_MP191 - MP187	38	12-Apr-21	18-May-21	30-Nov-22	10-Apr-23	100%	100%										
322		MAIN BRIDGE PRECAST GIRDER MARINE 10+380-11+880 FROM MP146 TO MP170	86	04-Jun-21	02-Feb-22	21-Sep-22	19-May-23	100%	100%										
323	CNLGA.1030	Assembling of Launching Gentry_2	20	04-Jun-21	26-Jun-21	07-Oct-22	16-Oct-22	100%	100%										
324	CNLGA.1020	Assembling of Launching Gentry_1	20	10-Jun-21	03-Sep-21	21-Sep-22	10-Oct-22	100%	100%										
325		MODULE-05_MP171 - MP167	20	28-Dec-21	02-Feb-22	02-Apr-23	19-May-23	100%	100%										
326		MODULE-04_MP166 - MP162	61	29-Nov-21	03-Jan-22	21-Feb-23	03-Apr-23	100%	100%										
327		MODULE-03_MP161 - MP157	36	30-Oct-21	04-Dec-21	12-Jan-23	22-Feb-23	100%	100%										
328		MODULE-02_MP156 - MP152	43	29-Sep-21	05-Nov-21	04-Dec-22	16-Jan-23	100%	100%										
329		MODULE-01_MP151 - MP146	47	28-Jun-21	06-Oct-21	17-Oct-22	05-Dec-22	100%	100%										
330		STITCH JOINT CASTING	516	07-Dec-19	12-Feb-22	12-Jan-21	27-Apr-23	0%	0%										
331		MAIN BRIDGE STITCH JOINT CASTING LAND 15+890-17+414 FROM MP251 TO MP266	263	07-Dec-19	16-Mar-20	08-Jul-21	28-Jun-22	0%	0%										
332		MODULE-19_MP254 - MP250	106	10-Feb-20	16-Mar-20	29-Nov-21	28-Jun-22	0%	0%										
333		MODULE-20_MP256 - MP255	156	17-Jan-20	20-Feb-20	10-Nov-21	13-Jun-22	0%	0%										
334		MODULE-21_MP261 - MP257	209	06-Jan-20	08-Feb-20	23-Sep-21	19-May-22	0%	0%										
335		MODULE-22_MP266 - MP262	175	07-Dec-19	10-Jan-20	08-Jul-21	25-Mar-22	0%	0%										
336		MAIN BRIDGE STITCH JOINT CASTING CRZ 15+890-17+414 FROM MP226 TO MP250	206	11-Mar-20	13-Oct-20	12-Jan-21	23-Aug-22	0%	0%										
337		MODULE-14_MP231 - MP227	29	19-Sep-20	13-Oct-20	02-Sep-21	08-Nov-21	0%	0%										
338		MODULE-15_MP236 - MP232	19	02-Jun-20	09-Jul-20	10-Jul-21	20-Sep-21	0%	0%										
339		MODULE-16_MP240 - MP237	19	04-May-20	06-Jun-20	23-Apr-21	31-Jul-21	0%	0%										
340		MODULE-17_MP245 - MP241	41	09-Apr-20	14-May-20	12-Jan-21	12-May-21	0%	0%										
341		MODULE-18_MP249 - MP246	142	11-Mar-20	14-Apr-20	29-Dec-21	23-Aug-22	0%	0%										
342		MAIN BRIDGE STITCH JOINT CASTING INTERTIDAL 14+800-15+890 FROM MP206 TO MP225	155	14-Oct-20	10-Feb-21	27-Oct-21	07-Apr-22	0%	0%										
343		MODULE-10_MP211 - MP207	43	18-Jan-21	10-Feb-21	03-Feb-22	07-Apr-22	0%	0%										
344		MODULE-11_MP216 - MP212	112	14-Dec-20	05-Jan-21	30-Dec-21	25-Feb-22	0%	0%										
345		MODULE-12_MP221 - MP217	97	14-Nov-20	07-Dec-20	24-Nov-21	12-Jan-22	0%	0%										
346		MODULE-13_MP226 - MP222	28	14-Oct-20	06-Nov-20	27-Oct-21	08-Dec-21	0%	0%										
347		MAIN BRIDGE STITCH JOINT CASTING MARINE 13+610-14+800 FROM MP187 TO MP205	178	11-Feb-21	21-Jun-21	21-Mar-22	09-Apr-23	0%	0%										
348		MODULE-06_MP191 - MP187	41	04-Jun-21	21-Jun-21	05-Dec-22	09-Apr-23	0%	0%										
349		MODULE-07_MP196 - MP192	123	17-Apr-21	05-May-21	07-Jun-22	02-Mar-23	0%	0%										
350		MODULE-08_MP201 - MP197	59	13-Mar-21	05-Apr-21	20-Apr-22	25-Jun-22	0%	0%										
351		MODULE-09_MP206 - MP202	34	11-Feb-21	06-Mar-21	21-Mar-22	09-May-22	0%	0%										
352		MAIN BRIDGE STITCH JOINT CASTING MARINE 10+380-11+880 FROM MP146 TO MP170	84	06-Oct-21	12-Feb-22	25-Oct-22	27-Apr-23	0%	0%										
353		MODULE-01_MP151 - MP146	50	06-Oct-21	23-Oct-21	25-Oct-22	03-Dec-22	0%	0%										
354		MODULE-02_MP156 - MP152	52	05-Nov-21	22-Nov-21	08-Dec-22	13-Jan-23	0%	0%										
355		MODULE-03_MP161 - MP157	29	04-Dec-21	21-Dec-21	16-Jan-23	20-Feb-23	0%	0%										
356		MODULE-04_MP166 - MP162	65	03-Jan-22	19-Jan-22	23-Feb-23	01-Apr-23	0%	0%										
357		MODULE-05_MP171 - MP167	23	27-Jan-22	12-Feb-22	04-Apr-23	27-Apr-23	0%	0%										
358		MAIN BRIDGE STEEL GIRDER INSTALLATION	335	03-Oct-20	01-Mar-22	01-Jan-22	05-May-23	100%	100%										
359		MAIN BRIDGE STEEL GIRDER INSTALLATION MARINE 11+880-13+610 FROM MP171 TO MP186	335	03-Oct-20	01-Mar-22	01-Jan-22	05-May-23	100%	100%										
360		STEEL MODULE-01_MP176 - MP171 (INSTALLATION)	76	07-Dec-21	01-Mar-22	28-Dec-22	05-May-23	100%	100%										
361		STEEL MODULE-02_MP182 - MP177 (INSTALLATION)	157	03-Oct-20	30-Sep-21	01-Jan-22	15-Dec-22	100%	100%										
362		STEEL MODULE-03_MP186 - MP183 (INSTALLATION)	96	30-Sep-21	07-Dec-21	22-Nov-22	14-Mar-23	100%	100%										
363		MISCELLANEOUS & FINISHING WORKS	665	16-May-19	24-May-22	30-Mar-21		100%	67.14%										
364		CRASH BARRIER & GUARD RAILS	292	20-Feb-20	07-Mar-22	20-Jul-22		100%	93.46%										
365		WATER PROOFING	177	26-Mar-20	17-Mar-22	16-Jan-23		100%	60.42%										
366		PAVEMENT	303	16-Mar-20	24-May-22	24-Feb-23		100%	44.36%										
367		EXPANSION JOINT	166	27-May-20	21-Apr-22	01-Jun-23		100%	25.33%										
368		SUB STATION	368	16-May-19	15-Apr-21	30-Mar-21	31-Mar-23	100%	100%										
369		NOISE BARRIER	195	16-Mar-20	14-Sep-21	06-Mar-23		100%	1.31%										
		FENDER INSTALLATION	80	24-Jul-21	24-Nov-21	17-Jan-23	17-Apr-23	100%	100%										

Actual Level of Effort █ Critical Remaining Work
Actual Work ◆ Milestone
Remaining Work █ summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
371		DRAINAGE WORKS	204	16-Mar-20	09-Mar-22	21-Feb-23		100%	37.02%										12-Oct-23: DRAINAGE WORKS
372		SIGN BOARDS	60	12-Feb-22	23-Apr-22			100%	0%										06-Dec-23: SIGN BOARDS
373		INTERCHANGE	1402	24-Dec-18	28-Apr-22	09-Oct-19		100%	97.24%										28-Nov-23: INTERCHANGE
374		INTERCHANGE FOUNDATION	590	24-Dec-18	22-Oct-20	09-Oct-19	26-May-21	100%	100%										26-May-21: INTERCHANGE FOUNDATION
375		INTERCHANGE RAMP PILE FOUNDATION	475	24-Dec-18	05-Mar-20	09-Oct-19	13-May-21	100%	100%										13-May-21: INTERCHANGE RAMP PILE FOUNDATION
376		INTERCHANGE RAMP PILE FDN_MA	182	05-Aug-19	03-Jan-20	09-Oct-19	13-May-21	100%	100%										13-May-21: INTERCHANGE RAMP PILE FDN_MA
377		MODULE_23_MAA2-MAP4	75	05-Aug-19	02-Nov-19	13-Jan-20	28-Jun-20	100%	100%										28-Jun-20: MODULE_23: MAA2-MAP4
378		MODULE_24_MAP4-MP246	137	02-Nov-19	03-Jan-20	09-Oct-19	13-May-21	100%	100%										13-May-21: MODULE_24: MAP4-MP246
379		INTERCHANGE RAMP PILE FDN_AC	107	01-Oct-19	05-Mar-20	25-Oct-19	16-Aug-20	100%	100%										16-Aug-20: INTERCHANGE RAMP PILE FDN_AC
380		MODULE_33_ACA2-ACP5	60	01-Oct-19	19-Dec-19	25-Oct-19	16-Aug-20	100%	100%										16-Aug-20: MODULE_33: ACA2-ACP5
381		MODULE_34_ACP5-MP256	62	19-Dec-19	05-Mar-20	02-Nov-19	25-Feb-20	100%	100%										25-Feb-20: MODULE_34: ACP5-MP256
382		INTERCHANGE RAMP PILE FDN_JM	178	03-Jan-19	05-Aug-19	26-Nov-19	07-May-21	100%	100%										07-May-21: INTERCHANGE RAMP PILE FDN_JM
383		MODULE_25_MP245-JMP4	178	22-Apr-19	05-Aug-19	26-Nov-19	23-Apr-21	100%	100%										23-Apr-21: MODULE_25: MP245-JMP4
384		MODULE_26_JMP4-JMP8	88	19-Feb-19	20-Apr-19	01-Dec-20	17-Feb-21	100%	100%										17-Feb-21: MODULE_26: JMP4-JMP8
385		MODULE_27_JMP8-JMA2	64	03-Jan-19	18-Feb-19	23-Mar-21	07-May-21	100%	100%										07-May-21: MODULE_27: JMP8-JMA2
386		INTERCHANGE RAMP PILE FDN_MJ	79	03-Jan-19	01-Oct-19	04-Dec-19	27-Nov-20	100%	100%										27-Nov-20: INTERCHANGE RAMP PILE FDN_MJ
387		MODULE_35_MJA2-MJP9	45	03-Jan-19	21-Mar-19	16-Sep-20	27-Nov-20	100%	100%										27-Nov-20: MODULE_35: MJA2-MJP9
388		MODULE_36_MJP9-MJP4	63	22-Mar-19	10-Jun-19	15-Jan-20	26-Aug-20	100%	100%										26-Aug-20: MODULE_36: MJP9-MJP4
389		MODULE_37_MJP4-MP252	52	11-Jun-19	01-Oct-19	04-Dec-19	20-Mar-20	100%	100%										20-Mar-20: MODULE_37: MJP4-MP252
390		INTERCHANGE RAMP PILE FDN_CA	100	28-May-19	23-Jan-20	01-Nov-19	27-Apr-21	100%	100%										27-Apr-21: INTERCHANGE RAMP PILE FDN_CA
391		MODULE_28_MP249-CAP4	64	08-Nov-19	23-Jan-20	01-Nov-19	27-Apr-21	100%	100%										27-Apr-21: MODULE_28: MP249-CAP4
392		MODULE_29_CAP4-CAP8	62	14-Aug-19	08-Nov-19	21-Nov-20	19-Mar-21	100%	100%										19-Mar-21: MODULE_29: CAP4-CAP8
393		MODULE_30_CAP8-CAA2	49	28-May-19	14-Aug-19	05-Jan-21	24-Feb-21	100%	100%										24-Feb-21: MODULE_30: CAP8-CAA2
394		INTERCHANGE RAMP PILE FDN_AM	290	24-Dec-18	27-May-19	06-Feb-20	04-Jan-21	100%	100%										04-Jan-21: INTERCHANGE RAMP PILE FDN_AM
395		MODULE_31_MAA2-AMP4	187	24-Dec-18	26-Mar-19	07-Feb-20	10-Sep-20	100%	100%										10-Sep-20: MODULE_31: MAA2-AMP4
396		MODULE_32_AMP4-MP259	237	27-Mar-19	27-May-19	06-Feb-20	04-Jan-21	100%	100%										04-Jan-21: MODULE_32: AMP4-MP259
397		INTERCHANGE RAMP PILE CAP INSTALLATION	525	08-Jan-19	22-Oct-20	22-Oct-19	26-May-21	100%	100%										26-May-21: INTERCHANGE RAMP PILE CAP INSTALLATION
398		INTERCHANGE RAMP PILE CAP_MA	182	06-Dec-19	15-May-20	22-Oct-19	26-May-21	100%	100%										26-May-21: INTERCHANGE RAMP PILE CAP_MA
399		MODULE_23_MAA2-MAP4	95	06-Dec-19	24-Feb-20	22-Jan-20	24-Jul-20	100%	100%										24-Jul-20: MODULE_23: MAA2-MAP4
400		MODULE_24_MAP4-MP246	86	24-Feb-20	15-May-20	22-Oct-19	26-May-21	100%	100%										26-May-21: MODULE_24: MAP4-MP246
401		INTERCHANGE RAMP PILE CAP_AC	183	15-Jan-20	22-Oct-20	02-Nov-19	07-Sep-20	100%	100%										07-Sep-20: INTERCHANGE RAMP PILE CAP_AC
402		MODULE_33_ACA2-ACP5	132	15-Jan-20	24-Apr-20	18-Nov-19	07-Sep-20	100%	100%										07-Sep-20: MODULE_33: ACA2-ACP5
403		MODULE_34_ACP5-MP256	114	24-Apr-20	22-Oct-20	02-Nov-19	09-Mar-20	100%	100%										09-Mar-20: MODULE_34: ACP5-MP256
404		INTERCHANGE RAMP PILE CAP_JM	136	18-Jan-19	06-Dec-19	11-Dec-19	25-May-21	100%	100%										25-May-21: INTERCHANGE RAMP PILE CAP_JM
405		MODULE_25_MP245-JMP4	135	18-Jun-19	06-Dec-19	11-Dec-19	15-May-21	100%	100%										15-May-21: MODULE_25: MP245-JMP4
406		MODULE_26_JMP4-JMP8	92	21-Mar-19	17-Jun-19	23-Dec-20	23-Feb-21	100%	100%										23-Feb-21: MODULE_26: JMP4-JMP8
407		MODULE_27_JMP8-JMA2	40	18-Jan-19	20-Mar-19	02-Apr-21	25-May-21	100%	100%										25-May-21: MODULE_27: JMP8-JMA2
408		INTERCHANGE RAMP PILE CAP_MJ	145	18-Jan-19	15-Jan-20	16-Dec-19	19-Dec-20	100%	100%										19-Dec-20: INTERCHANGE RAMP PILE CAP_MJ
409		MODULE_35_MJA2-MJP9	123	18-Jan-19	29-Apr-19	08-Oct-20	19-Dec-20	100%	100%										19-Dec-20: MODULE_35: MJA2-MJP9
410		MODULE_36_MJP9-MJP4	62	30-Apr-19	26-Oct-19	03-Mar-20	03-Sep-20	100%	100%										03-Sep-20: MODULE_36: MJP9-MJP4
411		MODULE_37_MJP4-MP252	58	26-Oct-19	15-Jan-20	16-Dec-19	01-Jun-20	100%	100%										01-Jun-20: MODULE_37: MJP4-MP252
412		INTERCHANGE RAMP PILE CAP_CA	158	15-Oct-19	27-Jun-20	02-Dec-19	05-May-21	100%	100%										05-May-21: INTERCHANGE RAMP PILE CAP_CA
413		MODULE_28_MP249-CAP4	87	05-Mar-20	27-Jun-20	02-Dec-19	05-May-21	100%	100%										05-May-21: MODULE_28: MP249-CAP4
414		MODULE_29_CAP4-CAP8	70	16-Dec-19	05-Mar-20	30-Mar-20	30-Mar-21	100%	100%										30-Mar-21: MODULE_29: CAP4-CAP8
415		MODULE_30_CAP8-CAA2	53	15-Oct-19	16-Dec-19	19-Jan-21	02-Mar-21	100%	100%										02-Mar-21: MODULE_30: CAP8-CAA2
416		INTERCHANGE RAMP PILE CAP_AM	245	08-Jan-19	15-Oct-19	15-Feb-20	13-Jan-21	100%	100%										13-Jan-21: INTERCHANGE RAMP PILE CAP_AM
417		MODULE_31_MAA2-AMP4	176	08-Jan-19	09-May-19	15-Feb-20	21-Sep-20	100%	100%										21-Sep-20: MODULE_31: MAA2-AMP4
418		MODULE_32_AMP4-MP259	89	10-May-19	15-Oct-19	07-Mar-20	13-Jan-21	100%	100%										13-Jan-21: MODULE_32: AMP4-MP259
419		INTERCHANGE SUBSTRUCTURE & BEARING	790	29-Jan-19	31-May-21	24-Dec-19	19-Mar-23	100%	100%										19-Mar-23: INTERCHANGE SUBSTRUCTURE & BEARING
420		INTERCHANGE RAMP PIER INSTALLATION	596	29-Jan-19	27-Apr-21	24-Dec-19	12-Sep-22	100%	100%										12-Sep-22: INTERCHANGE RAMP PIER INSTALLATION
421		INTERCHANGE RAMP PIER_MA	169	18-Mar-20	29-Dec-20	24-Dec-19	18-Sep-21	100%	100%										18-Sep-21: INTERCHANGE RAMP PIER_MA
422		INTERCHANGE RAMP PIER_AC	249	16-May-20	27-Apr-21	19-May-20	18-Dec-21	100%	100%										18-Dec-21: INTERCHANGE RAMP PIER_AC
423		INTERCHANGE RAMP PIER_JM	138	08-Feb-19	18-Mar-20	15-Jan-20	29-Jul-22	100%	100%										29-Jul-22: INTERCHANGE RAMP PIER_JM
424		INTERCHANGE RAMP PIER_MJ	234	08-Feb-19	18-May-20	07-Sep-20	20-Nov-21	100%	100%										20-Nov-21: INTERCHANGE RAMP PIER_MJ
425		INTERCHANGE RAMP PIER_CA	230	08-Jan-20	16-Feb-21	27-Apr-20	02-May-22	100%	100%										02-May-22: INTERCHANGE RAMP PIER_CA
426		INTERCHANGE RAMP PIER_AM	268	29-Jan-19	08-Jan-20	26-Sep-20	12-Sep-22	100%	100%										12-Sep-22: INTERCHANGE RAMP PIER_AM
427		INTERCHANGE BEARING INSTALLATION	447	27-Feb-19	31-May-21	08-Sep-21	19-Mar-23	0%	0%										19-Mar-23: INTERCHANGE BEARING INSTALLATION
428		INTERCHANGE RAMP BEARING_MA	229	16-Apr-20	01-Feb-21	08-Sep-21	18-Jan-22	0%	0%										18-Jan-22: INTERCHANGE RAMP BEARING_MA
429		INTERCHANGE RAMP BEARING_AC	28	24-Jun-20	31-May-21	04-Mar-22	07-Apr-22	0%	0%										07-Apr-22: INTERCHANGE RAMP BEARING_AC
430		INTERCHANGE RAMP BEARING_JM	150	11-Mar-19	20-Apr-20	14-Jul-22	19-Dec-22	0%	0%										19-Dec-22: INTERCHANGE RAMP BEARING_JM
431		INTERCHANGE RAMP BEARING_MJ	63	11-Mar-19	30-Jun-20	22-Mar-22	02-Sep-22	0%	0%										02-Sep-22: INTERCHANGE RAMP BEARING_MJ
432		INTERCHANGE RAMP BEARING_CA	106	06-Feb-20	22-Mar-21	26-Sep-22	30-Dec-22	0%	0%										30-Dec-22: INTERCHANGE RAMP BEARING_CA

Actual Level of Effort Critical Remaining Work
Actual Work Milestone
Remaining Work summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		



#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	27
433		INTERCHANGE RAMP BEARING_AM	105	27-Feb-19	10-Feb-20	05-Jan-23	19-Mar-23	0%	0%										19-Mar-23 A: INTERCHANGE RAMP BEARING_AM
434		INTERCHANGE SUPERSTRUCTURE INSTALLATION	514	20-Sep-19	15-Feb-22	18-Sep-21	12-May-23	100%	100%										12-May-23 A: INTERCHANGE SUPERSTRUCTURE
435		INTERCHANGE BOX GIRDER INSTALLATION_MA	180	09-Jan-21	03-Jan-22	18-Sep-21	22-Apr-22	100%	100%										22-Apr-22 A: INTERCHANGE BOX GIRDER INSTALLATION_MA
436		MODULE_23_MAA2-MAP5-MAP4	134	09-Jan-21	21-Jun-21	18-Sep-21	08-Mar-22	100%	100%										08-Mar-22 A: MODULE_23_MAA2-MAP5-MAP4
437		STAGGING & BOTTOM SLAB	35	09-Jan-21	04-Mar-21	18-Sep-21	31-Dec-21	100%	100%										31-Dec-21 A: STAGGING & BOTTOM SLAB
438		SIDE WALLS & TOP SLAB	57	05-Mar-21	26-Apr-21	22-Dec-21	09-Feb-22	100%	100%										09-Feb-22 A: SIDE WALLS & TOP SLAB
439		STRESSING & DESTAGGING	40	27-Apr-21	21-Jun-21	15-Feb-22	08-Mar-22	100%	100%										08-Mar-22 A: STRESSING & DESTAGGING
440		MODULE_24_MAP4-MAP3-MAP2-MAP1-MP246	61	21-Jun-21	03-Jan-22	01-Oct-21	22-Apr-22	100%	100%										22-Apr-22 A: MODULE_24_MAP4-MAP3-MAP2-MAP1-MP246
441		STAGGING & BOTTOM SLAB	28	21-Jun-21	20-Sep-21	01-Oct-21	28-Mar-22	100%	100%										28-Mar-22 A: STAGGING & BOTTOM SLAB
442		SIDE WALLS & TOP SLAB	45	20-Sep-21	18-Nov-21	22-Jan-22	06-Apr-22	100%	100%										06-Apr-22 A: SIDE WALLS & TOP SLAB
443		STRESSING & DESTAGGING	61	18-Nov-21	03-Jan-22	12-Mar-22	22-Apr-22	100%	100%										22-Apr-22 A: STRESSING & DESTAGGING
444		INTERCHANGE BOX GIRDER INSTALLATION_AC	140	27-Feb-21	27-Dec-21	01-Nov-21	20-Sep-22	100%	100%										20-Sep-22 A: INTERCHANGE BOX GIRDER INSTALLATION_AC
445		MODULE_33_ACA2-ACP8-ACP7-ACP6-ACP5	140	27-Feb-21	08-Sep-21	01-Nov-21	10-Apr-22	100%	100%										10-Apr-22 A: MODULE_33_ACA2-ACP8-ACP7-ACP6-ACP5
446		STAGGING & BOTTOM SLAB	73	27-Feb-21	16-Apr-21	01-Nov-21	21-Mar-22	100%	100%										21-Mar-22 A: STAGGING & BOTTOM SLAB
447		SIDE WALLS & TOP SLAB	57	17-Apr-21	15-Jun-21	23-Feb-22	30-Mar-22	100%	100%										30-Mar-22 A: SIDE WALLS & TOP SLAB
448		STRESSING & DESTAGGING	39	15-Jun-21	08-Sep-21	31-Mar-22	10-Apr-22	100%	100%										10-Apr-22 A: STRESSING & DESTAGGING
449		MODULE_34_ACP5-ACP4-ACP3-ACP2-ACP1-MP256	122	31-May-21	27-Dec-21	07-Apr-22	20-Sep-22	100%	100%										20-Sep-22 A: MODULE_34_ACP5-ACP4-ACP3-ACP2-ACP1-MP256
450		STAGGING & BOTTOM SLAB	36	31-May-21	03-Sep-21	07-Apr-22	26-Aug-22	100%	100%										26-Aug-22 A: STAGGING & BOTTOM SLAB
451		SIDE WALLS & TOP SLAB	45	03-Sep-21	10-Nov-21	11-Jun-22	07-Sep-22	100%	100%										07-Sep-22 A: SIDE WALLS & TOP SLAB
452		STRESSING & DESTAGGING	40	10-Nov-21	27-Dec-21	30-Jun-22	20-Sep-22	100%	100%										20-Sep-22 A: STRESSING & DESTAGGING
453		INTERCHANGE BOX GIRDER INSTALLATION_JM	234	11-Mar-20	26-Feb-21	30-Aug-22	14-Feb-23	100%	100%										14-Feb-23 A: INTERCHANGE BOX GIRDER INSTALLATION_JM
454		MODULE_25_MP245-JMP1-JMP2-JMP3-JMP4	144	19-Aug-20	09-Feb-21	13-Oct-22	14-Feb-23	100%	100%										14-Feb-23 A: MODULE_25_MP245-JMP1-JMP2-JMP3-JMP4
455		STAGGING & BOTTOM SLAB	71	19-Aug-20	30-Oct-20	13-Oct-22	21-Jan-23	100%	100%										21-Jan-23 A: STAGGING & BOTTOM SLAB
456		SIDE WALLS & TOP SLAB	45	31-Oct-20	23-Dec-20	04-Nov-22	31-Jan-23	100%	100%										31-Jan-23 A: SIDE WALLS & TOP SLAB
457		STRESSING & DESTAGGING	28	24-Dec-20	09-Feb-21	15-Nov-22	14-Feb-23	100%	100%										14-Feb-23 A: STRESSING & DESTAGGING
458		MODULE_26_JMP4-JMP5-JMP6-JMP7-JMP8	109	29-Sep-20	26-Feb-21	30-Aug-22	14-Dec-22	100%	100%										14-Dec-22 A: MODULE_26_JMP4-JMP5-JMP6-JMP7-JMP8
459		STAGGING & BOTTOM SLAB	41	29-Sep-20	19-Nov-20	30-Aug-22	19-Sep-22	100%	100%										19-Sep-22 A: STAGGING & BOTTOM SLAB
460		SIDE WALLS & TOP SLAB	45	20-Nov-20	11-Jan-21	09-Sep-22	03-Oct-22	100%	100%										03-Oct-22 A: SIDE WALLS & TOP SLAB
461		STRESSING & DESTAGGING	65	12-Jan-21	26-Feb-21	23-Sep-22	14-Dec-22	100%	100%										14-Dec-22 A: STRESSING & DESTAGGING
462		MODULE_27_JMP8-JMP9-JMP10-JMA2	195	11-Mar-20	29-Sep-20	06-Sep-22	09-Jan-23	100%	100%										09-Jan-23 A: MODULE_27_JMP8-JMP9-JMP10-JMA2
463		STAGGING & BOTTOM SLAB	41	11-Mar-20	28-Apr-20	08-Sep-22	17-Dec-22	100%	100%										17-Dec-22 A: STAGGING & BOTTOM SLAB
464		SIDE WALLS & TOP SLAB	63	28-Apr-20	04-Jul-20	25-Sep-22	23-Dec-22	100%	100%										23-Dec-22 A: SIDE WALLS & TOP SLAB
465		STRESSING & DESTAGGING	65	04-Jul-20	29-Sep-20	10-Oct-22	09-Jan-23	100%	100%										09-Jan-23 A: STRESSING & DESTAGGING
466		INTERCHANGE BOX GIRDER INSTALLATION_MJ	188	20-Sep-19	08-Jan-21	17-Mar-22	13-Oct-22	100%	100%										13-Oct-22 A: INTERCHANGE BOX GIRDER INSTALLATION_MJ
467		MODULE_35_MJA2-MJP12-MJP11-MJP10-MJP9	100	20-Sep-19	16-Mar-20	17-Mar-22	11-Jun-22	100%	100%										11-Jun-22 A: MODULE_35_MJA2-MJP12-MJP11-MJP10-MJP9
468		STAGGING & BOTTOM SLAB	50	20-Sep-19	25-Nov-19	17-Mar-22	21-May-22	100%	100%										21-May-22 A: STAGGING & BOTTOM SLAB
469		SIDE WALLS & TOP SLAB	50	25-Nov-19	22-Jan-20	16-Apr-22	30-May-22	100%	100%										30-May-22 A: SIDE WALLS & TOP SLAB
470		STRESSING & DESTAGGING	45	22-Jan-20	16-Mar-20	30-May-22	11-Jun-22	100%	100%										11-Jun-22 A: STRESSING & DESTAGGING
471		MODULE_36_MJP8-MJP7-MJP6-MJP5-MJP4	171	16-Mar-20	29-Oct-20	28-Mar-22	23-Aug-22	100%	100%										23-Aug-22 A: MODULE_36_MJP8-MJP7-MJP6-MJP5-MJP4
472		STAGGING & BOTTOM SLAB	50	16-Mar-20	14-May-20	28-Mar-22	22-Jul-22	100%	100%										22-Jul-22 A: STAGGING & BOTTOM SLAB
473		SIDE WALLS & TOP SLAB	50	14-May-20	17-Aug-20	27-Apr-22	05-Aug-22	100%	100%										05-Aug-22 A: SIDE WALLS & TOP SLAB
474		STRESSING & DESTAGGING	45	17-Aug-20	29-Oct-20	14-May-22	23-Aug-22	100%	100%										23-Aug-22 A: STRESSING & DESTAGGING
475		MODULE_37_MJP4-MJP3-MJP2-MJP1-MP252	128	30-Jun-20	08-Jan-21	16-Jun-22	13-Oct-22	100%	100%										13-Oct-22 A: MODULE_37_MJP4-MJP3-MJP2-MJP1-MP252
476		STAGGING & BOTTOM SLAB	55	30-Jun-20	29-Sep-20	16-Jun-22	22-Sep-22	100%	100%										22-Sep-22 A: STAGGING & BOTTOM SLAB
477		SIDE WALLS & TOP SLAB	45	29-Sep-20	24-Nov-20	29-Jul-22	30-Sep-22	100%	100%										30-Sep-22 A: SIDE WALLS & TOP SLAB
478		STRESSING & DESTAGGING	60	25-Nov-20	08-Jan-21	12-Aug-22	13-Oct-22	100%	100%										13-Oct-22 A: STRESSING & DESTAGGING
479		INTERCHANGE BOX GIRDER INSTALLATION_CA	390	30-Oct-20	15-Feb-22	12-Oct-22	10-Apr-23	100%	100%										10-Apr-23 A: INTERCHANGE BOX GIRDER INSTALLATION_CA
480		MODULE_28_MP249-CAP1-CAP2-CAP3-CAP4	154	08-Sep-21	15-Feb-22	10-Dec-22	10-Apr-23	100%	100%										10-Apr-23 A: MODULE_28_MP249-CAP1-CAP2-CAP3-CAP4
481		STAGGING & BOTTOM SLAB	105	08-Sep-21	08-Nov-21	10-Dec-22	20-Mar-23	100%	100%										20-Mar-23 A: STAGGING & BOTTOM SLAB
482		SIDE WALLS & TOP SLAB	105	08-Nov-21	30-Dec-21	22-Dec-22	29-Mar-23	100%	100%										29-Mar-23 A: SIDE WALLS & TOP SLAB
483		STRESSING & DESTAGGING	36	30-Dec-21	15-Feb-22	05-Jan-23	10-Apr-23	100%	100%										10-Apr-23 A: STRESSING & DESTAGGING
484		MODULE_29_CAP4-CAP5-CAP6-CAP7-CAP8	161	09-Apr-21	23-Nov-21	29-Oct-22	10-Feb-23	100%	100%										10-Feb-23 A: MODULE_29_CAP4-CAP5-CAP6-CAP7-CAP8
485		STAGGING & BOTTOM SLAB	50	09-Apr-21	11-Jun-21	29-Oct-22	19-Jan-23	100%	100%										19-Jan-23 A: STAGGING & BOTTOM SLAB
486		SIDE WALLS & TOP SLAB	50	11-Jun-21	28-Sep-21	13-Nov-22	30-Jan-23	100%	100%										30-Jan-23 A: SIDE WALLS & TOP SLAB
487		STRESSING & DESTAGGING	161	28-Sep-21	23-Nov-21	26-Nov-22	10-Feb-23	100%	100%										10-Feb-23 A: STRESSING & DESTAGGING
488		MODULE_30_CAP8-CAP9-CAP10-CAA2	159	30-Oct-20	08-Apr-21	12-Oct-22	26-Dec-22	100%	100%										26-Dec-22 A: MODULE_30_CAP8-CAP9-CAP10-CAA2
489		STAGGING & BOTTOM SLAB	73	30-Oct-20	24-Dec-20	12-Oct-22	01-Dec-22	100%	100%										01-Dec-22 A: STAGGING & BOTTOM SLAB
490		SIDE WALLS & TOP SLAB	48	25-Dec-20	19-Feb-21	23-Oct-22	07-Dec-22	100%	100%										07-Dec-22 A: SIDE WALLS & TOP SLAB
491		STRESSING & DESTAGGING	38	20-Feb-21	08-Apr-21	04-Nov-22	26-Dec-22	100%	100%										26-Dec-22 A: STRESSING & DESTAGGING
492		INTERCHANGE BOX GIRDER INSTALLATION_AM	207	14-Oct-19	19-Aug-20	12-Jan-23	12-May-23	100%	100%										12-May-23 A: INTERCHANGE BOX GIRDER INSTALLATION_AM
493		MODULE_31_AMA2-AMP8-AMP7-AMP6-AMP5-AMP4	178	14-Oct-19	11-Mar-20	12-Jan-23	12-May-23	100%	100%										12-May-23 A: MODULE_31_AMA2-AMP8-AMP7-AMP6-AMP5-AMP4
494		STAGGING & BOTTOM SLAB	67	14-Oct-19	03-Dec-19	12-Jan-23	14-Apr-23	100%	100%										14-Apr-23 A: STAGGING & BOTTOM SLAB

Actual Level of Effort
Actual Work
Remaining Work

Critical Remaining Work
Milestone
summary

EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

#	Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Actual Start	Actual Finish	Schedule % Complete	Performance % Complete	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
495		SIDE WALLS & TOP SLAB	45	03-Dec-19	24-Jan-20	30-Jan-23	24-Apr-23	100%	100%										
496		STRESSING & DESTAGGING	66	24-Jan-20	11-Mar-20	09-Feb-23	12-May-23	100%	100%										
497		MODULE_32 AMP4-AMP3-AMP2-AMP1-MP259	181	10-Feb-20	19-Aug-20	21-Jan-23	08-May-23	100%	100%										
498		STAGGING & BOTTOM SLAB	45	10-Feb-20	03-Apr-20	21-Jan-23	11-Apr-23	100%	100%										
499		SIDE WALLS & TOP SLAB	45	03-Apr-20	27-May-20	13-Feb-23	21-Apr-23	100%	100%										
500		STRESSING & DESTAGGING	91	27-May-20	19-Aug-20	22-Feb-23	08-May-23	100%	100%										
501		INTERCHANGE RETAINING STRUCTURE	352	11-Mar-19	06-Nov-20	15-May-21	22-Feb-23	100%	100%										
502		INTERCHANGE RETAINING STRUCTURE_MA	0					0%	0%										
503		INTERCHANGE RETAINING STRUCTURE_AC	69	24-Jun-20	06-Nov-20	15-May-21	25-Mar-22	100%	100%										
504		INTERCHANGE RETAINING STRUCTURE_JM	89	11-Mar-19	08-May-19	24-Feb-22	30-Dec-22	100%	100%										
505		INTERCHANGE RETAINING STRUCTURE_MJ	101	09-May-19	11-Jul-19	18-Oct-21	06-Aug-22	100%	100%										
506		INTERCHANGE RETAINING STRUCTURE_CA	39	06-Feb-20	24-Mar-20	28-Dec-21	08-Sep-22	100%	100%										
507		INTERCHANGE RETAINING STRUCTURE_AM	67	12-Jul-19	24-Oct-19	15-Oct-22	22-Feb-23	100%	100%										
508		MISCELLANEOUS & FINISHING WORKS	336	19-Aug-20	28-Apr-22	15-Nov-22		100%	31.03%										
509		EXPANSION JOINT	38	01-Oct-20	22-Apr-22			0%	0%										
510		CRASH BARRIER & GUARD RAILS	336	19-Aug-20	21-Feb-22	15-Nov-22	15-Jun-23	100%	100%										
511		WATER PROOFING	120	10-Sep-20	08-Mar-22	25-May-23		100%	46.83%										
512		PAVEMENT	51	07-Sep-20	28-Apr-22			100%	0%										
513		DRAINAGE WORKS	5	28-Aug-20	26-Feb-22			100%	0%										
514		PROJECT HANDINGOVER	65	24-May-22	22-Sep-22			100%	0%										
515		CHECKLIST	65	24-May-22	22-Sep-22			100%	0%										
516		DEFECT LIABILITY PERIOD (DLP)	911	22-Sep-22	21-Sep-24			0%	0%										
517		PRICE SCHEDULE	2619	23-Mar-18	21-Mar-23	23-Mar-18		100%	48.53%										
518		SCHEDULE-1	2619	23-Mar-18	21-Mar-23	23-Mar-18		100%	94.5%										
519		SCHEDULE-2	1644	23-Mar-18	22-Sep-22	23-Mar-18		100%	100%										
520		SCHEDULE-3	1644	23-Mar-18	22-Sep-22	23-Mar-18		100%	100%										
521		SCHEDULE-12	1644	23-Mar-18	22-Sep-22	23-Mar-18		100%	100%										
522		SCHEDULE-13	1644	23-Mar-18	22-Sep-22	23-Mar-18		100%	1.86%										
523		MTHL-PKG2-RAMBOLL DESIGN PROGRAMME_25092023_APPROVED_MPR.66	1534	15-Jan-18	17-Jun-22	16-Dec-17		100%	94.66%										



■ Actual Level of Effort ■ Critical Remaining Work
■ Actual Work ◆ Milestone
■ Remaining Work ─ summary

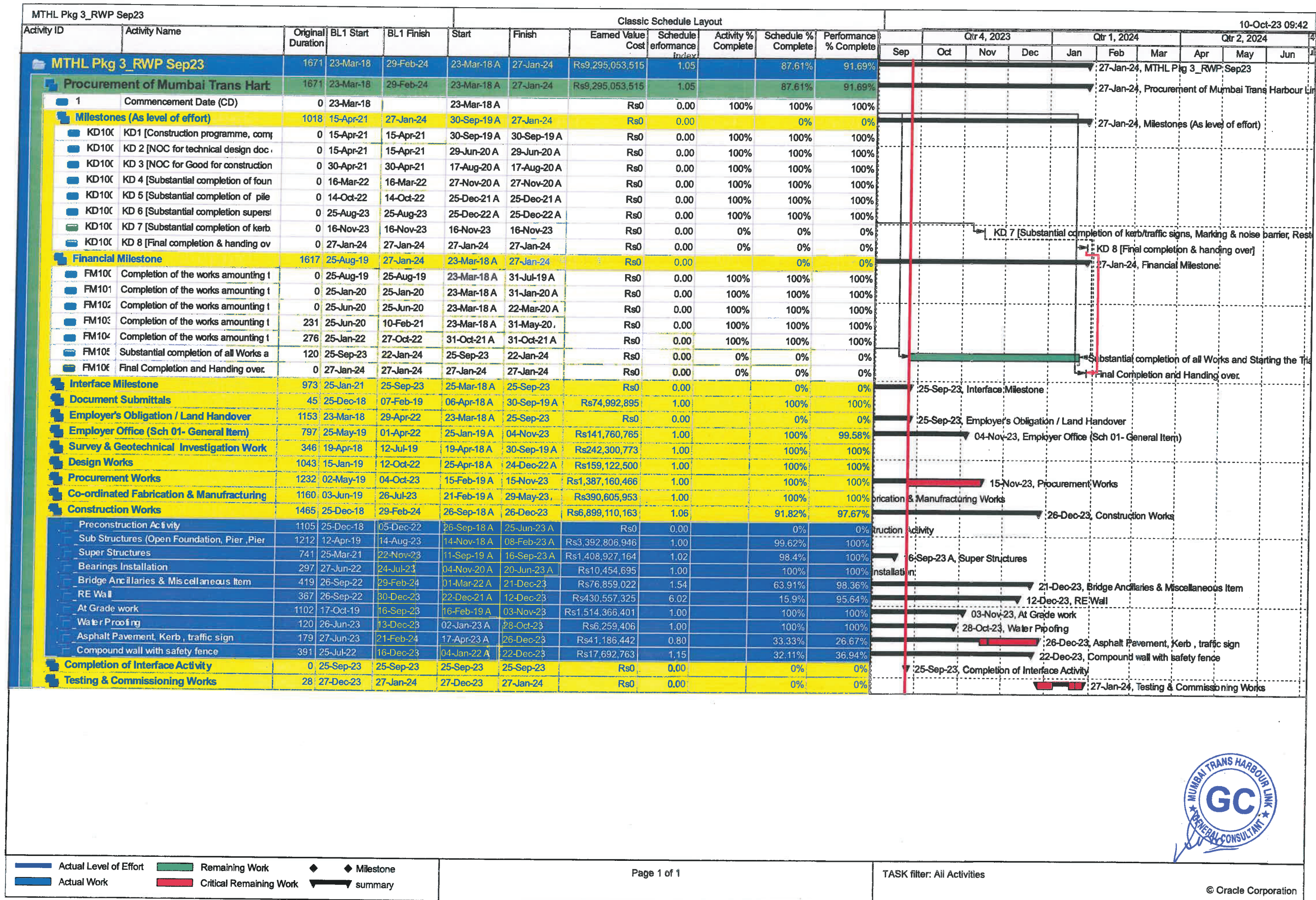
EMPLOYER:
MUMBAI METROPOLITAN REGION DEVELOPMENT
AUTHORITY

CONTRACTOR:
DAEWOO-TPL JV

Date	Revision	Checked	Approved
25-Sep-23	R0		

**Attachment 8- Package-3's Construction Programme
Updated as of 25th Sept 2023**





**Attachment 9- Package-4's Construction Programme
Updated as of 25th Sept 2023**



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:29	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MTHL RWP Till Sep		853	06-May-22	30-Sep-23	06-May-22 A	07-Nov-24	
Contract Award		52	06-May-22	26-Jun-22	06-May-22 A	26-Jun-22 A	
MMRDA_PG4_6220	Recipet of LOA	0	06-May-22		06-May-22 A		100%
MMRDA_PG4_6221	Award of Contract (Effective Date)	52	06-May-22	26-Jun-22	06-May-22 A	26-Jun-22 A	100%
Phase Wise Activity Completion Key Dates		292	04-Nov-22	30-Sep-23	30-Nov-23	07-Nov-24	
MMRDA_PG4_7300	KD-1_Design Completion (04-Nov-22)	0		04-Nov-22		30-Nov-23	0%
MMRDA_PG4_7310	KD-2_Procurement Completion (19-Jun-23)	0		19-Jun-23		06-Jun-24	0%
MMRDA_PG4_7330	KD-3_Construction Completion (11-Aug-23)	0		22-Aug-23		27-Sep-24	0%
MMRDA_PG4_7340	KD-4_Testing & Commissioning Completion (31-Aug-23)	0		06-Sep-23		08-Oct-24	0%
MMRDA_PG4_7430	KD-5_Project Handover (30-Sep-23)	0		30-Sep-23		07-Nov-24	0%
Shared Access Dates		877	27-Jun-22	26-Jun-23	06-May-22 A	28-Sep-24	
MMRDA_PG4_6020	AD1_Allow the Contractor's unobstructed access to ROW by Pkg -01 Contractor on Marine side (28 days from ED)	28	27-Jun-22	24-Jul-22	30-Sep-23	27-Oct-23	0%
MMRDA_PG4_6030	AD2_Allow the Contractor's unobstructed access to ROW by Pkg -01 Contractor on Land side (56 days from ED)	56	27-Jun-22	21-Aug-22	30-Sep-23	24-Nov-23	0%
MMRDA_PG4_6040	AD3_Allow the Contractor's unobstructed access to ROW by Pkg -02 Contractor on Marine side (28 days from ED)	28	27-Jun-22	24-Jul-22	30-Sep-23	27-Oct-23	0%
MMRDA_PG4_6050	AD4_Allow the Contractor's unobstructed access to ROW by Pkg -02 Contractor on Land side (56 days from ED)	56	27-Jun-22	21-Aug-22	30-Sep-23	24-Nov-23	0%
MMRDA_PG4_6070	AD5_Allow the Contractor's unobstructed access to ROW by Pkg -03 Contractor (28 days from ED)	28	27-Jun-22	24-Jul-22	06-May-22 A	22-May-23 A	100%
MMRDA_PG4_6080	AD6_Allow to all Foundations with box out for fixing of VMS, CCTV, ITS and Traffic signal gantry/pole (365 days from ED)	365	27-Jun-22	26-Jun-23	30-Sep-23	28-Sep-24	0%
MMRDA_PG4_6090	AD7_Allow unobstructed access to the area of Toll Plaza by Pkg-01 & 02 Contractors (28 days from ED)	28	27-Jun-22	24-Jul-22	30-Sep-23	27-Oct-23	0%
MMRDA_PG4_6100	AD8_Allow the Contractor's unobstructed access to the area of connection with Eastern Freeway (365 days from ED)	365	27-Jun-22	26-Jun-23	30-Sep-23	28-Sep-24	0%
MMRDA_PG4_6120	AD9_Allow the Contractor's unobstructed access to area of connection with NH4 & SH54 by NHAI/State/Pkg-03 Cont (365 Day	365	27-Jun-22	26-Jun-23	30-Sep-23	28-Sep-24	0%
Project Mobilization		41	06-May-22	23-Jun-22	06-May-22 A	23-Jun-22 A	
Proposal		29	06-May-22	09-Jun-22	06-May-22 A	09-Jun-22 A	
Submission by STRABAG		8	06-May-22	16-May-22	06-May-22 A	16-May-22 A	
MMRDA_PG4_8940	Submission-Particular uses of Site	4	06-May-22	11-May-22	06-May-22 A	11-May-22 A	100%
MMRDA_PG4_8950	Submission-Proposal for construction of Site Office	4	11-May-22	16-May-22	11-May-22 A	16-May-22 A	100%
Review & Comments by MMRDA/GC		12	16-May-22	30-May-22	16-May-22 A	30-May-22 A	
MMRDA_PG4_8960	Review-Particular uses of Site	11	17-May-22	30-May-22	17-May-22 A	30-May-22 A	100%
MMRDA_PG4_8970	Review-Proposal for construction of Site Office	11	16-May-22	28-May-22	16-May-22 A	28-May-22 A	100%
Resubmission by STRABAG		9	28-May-22	08-Jun-22	28-May-22 A	08-Jun-22 A	
MMRDA_PG4_8980	Resubmission-Particular uses of Site	7	31-May-22	08-Jun-22	31-May-22 A	08-Jun-22 A	100%
MMRDA_PG4_8990	Resubmission-Proposal for construction of Site Office	6	28-May-22	03-Jun-22	28-May-22 A	03-Jun-22 A	100%
Receipt of NONO from MMRDA/GC		2	06-Jun-22	09-Jun-22	06-Jun-22 A	09-Jun-22 A	
MMRDA_PG4_9000	NONO-Particular uses of Site	1	08-Jun-22	09-Jun-22	08-Jun-22 A	09-Jun-22 A	100%
MMRDA_PG4_9020	NONO-Proposal for construction of Site Office	1	06-Jun-22	07-Jun-22	06-Jun-22 A	07-Jun-22 A	100%
Construction of Site Office		12	09-Jun-22	23-Jun-22	09-Jun-22 A	23-Jun-22 A	
MMRDA_PG4_9050	Finalization of Contractors & Suppliers	3	09-Jun-22	13-Jun-22	09-Jun-22 A	13-Jun-22 A	100%
MMRDA_PG4_9060	Supply of material	3	13-Jun-22	16-Jun-22	13-Jun-22 A	16-Jun-22 A	100%
MMRDA_PG4_9070	Construction of Site Office	4	16-Jun-22	21-Jun-22	16-Jun-22 A	21-Jun-22 A	100%
MMRDA_PG4_9080	Inauguration & Operation of Site office	1	22-Jun-22	23-Jun-22	22-Jun-22 A	23-Jun-22 A	100%
Site Mobilization		8	23-Jun-22	02-Jul-22	23-Jun-22 A	02-Jul-22 A	
MMRDA_PG4_9082	Site Stores Set up	4	23-Jun-22	28-Jun-22	23-Jun-22 A	28-Jun-22 A	100%
MMRDA_PG4_9090	Site Office Set up	4	28-Jun-22	02-Jul-22	28-Jun-22 A	02-Jul-22 A	100%
Project Organization & Key Personnels		7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	
Mobilization of Key Personnels		7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	
MMRDA_PG4_7670	Mobilization of Design Manager	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%
MMRDA_PG4_7690	Mobilization of Construction Manager ITS & TMS	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%
MMRDA_PG4_7700	Mobilization of Construction Manager Electrical Works	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:29	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
MMRDA_PG4_7720	Mobilization of Dy. Project Manager	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
MMRDA_PG4_7730	Mobilization of HSE Manager	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
MMRDA_PG4_7740	Mobilization of Planner	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
MMRDA_PG4_7750	Mobilization of Project Manager	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
MMRDA_PG4_7760	Mobilization of QA/QC Manager	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
MMRDA_PG4_7762	Mobilization of Construction Manager Civil & Buildings	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
MMRDA_PG4_7764	Mobilization of Admin Incharge	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
MMRDA_PG4_7766	Mobilization of Contracts Manager	7	02-Jul-22	11-Jul-22	02-Jul-22 A	11-Jul-22 A	100%	
Contractual Document Submission		106	27-Jun-22	05-Nov-22	27-Jun-22 A	05-Nov-22 A		
Bank Gaurantees		15	27-Jun-22	13-Jul-22	27-Jun-22 A	13-Jul-22 A		
MMRDA_PG4_7880	Preperation & submission of Performance Bank Gaurantee	15	27-Jun-22	13-Jul-22	27-Jun-22 A	13-Jul-22 A	100%	
MMRDA_PG4_7890	Preperation & submission of Advance Bank Gaurantee	15	27-Jun-22	13-Jul-22	27-Jun-22 A	13-Jul-22 A	100%	
Insurance Policies		12	14-Jul-22	27-Jul-22	14-Jul-22 A	27-Jul-22 A		
MMRDA_PG4_7900	Preperation & submission of Cargo Insurance Policy	12	14-Jul-22	27-Jul-22	14-Jul-22 A	27-Jul-22 A	100%	
MMRDA_PG4_7910	Preperation & submission of Insurance All Risk Policy	12	14-Jul-22	27-Jul-22	14-Jul-22 A	27-Jul-22 A	100%	
MMRDA_PG4_7940	Preperation & submission of Worker's Compensation Insurance	12	14-Jul-22	27-Jul-22	14-Jul-22 A	27-Jul-22 A	100%	
MMRDA_PG4_7950	Preperation & submission of Professional Indemnity Insurance	12	14-Jul-22	27-Jul-22	14-Jul-22 A	27-Jul-22 A	100%	
Deliverables		81	04-Jul-22	15-Oct-22	04-Jul-22 A	15-Oct-22 A		
Submission		19	04-Jul-22	02-Aug-22	04-Jul-22 A	02-Aug-22 A		
MMRDA_PG4_7980	Preparation & Submission - Safety Plan	8	11-Jul-22	20-Jul-22	11-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_7990	Preparation & Submission - Design Plan	12	11-Jul-22	25-Jul-22	11-Jul-22 A	25-Jul-22 A	100%	
MMRDA_PG4_8000	Preparation & Submission - Mobilization Programme	6	11-Jul-22	16-Jul-22	11-Jul-22 A	16-Jul-22 A	100%	
MMRDA_PG4_8010	Preparation & Submission - Design Submission Programme	5	11-Jul-22	16-Jul-22	11-Jul-22 A	16-Jul-22 A	100%	
MMRDA_PG4_8020	Preparation & Submission - Detailed Version of Work Program	6	04-Jul-22	12-Jul-22	04-Jul-22 A	12-Jul-22 A	100%	
MMRDA_PG4_8030	Preparation & Submission - Dispute Board	7	12-Jul-22	21-Jul-22	12-Jul-22 A	21-Jul-22 A	100%	
MMRDA_PG4_8060	Preparation & Submission - Project document control procedure	8	11-Jul-22	20-Jul-22	11-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8070	Preparation & Submission - Initial version of the Works Program	8	11-Jul-22	20-Jul-22	11-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8080	Preparation & Submission - Drawings showing the formation works & the layout within the Site	8	12-Jul-22	21-Jul-22	12-Jul-22 A	21-Jul-22 A	100%	
MMRDA_PG4_8090	Preparation & Submission - Interface Management Plan	8	11-Jul-22	20-Jul-22	11-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8100	Preparation & Submission - Manufacturing Testing Program	8	11-Jul-22	20-Jul-22	11-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8110	Preparation & Submission - Material Control Schedule	8	12-Jul-22	21-Jul-22	12-Jul-22 A	21-Jul-22 A	100%	
MMRDA_PG4_8120	Preparation & Submission - Other Plans & Deliverables	6	11-Jul-22	18-Jul-22	11-Jul-22 A	18-Jul-22 A	100%	
MMRDA_PG4_8130	Preparation & Submission - Particular Uses of Site	6	11-Jul-22	18-Jul-22	11-Jul-22 A	18-Jul-22 A	100%	
MMRDA_PG4_8140	Preparation & Submission - Procurement, Manufacturing and Manufacturing Testing Delivery Plan	6	11-Jul-22	18-Jul-22	11-Jul-22 A	18-Jul-22 A	100%	
MMRDA_PG4_8160	Preparation & Submission - Project Management Plan	6	12-Jul-22	20-Jul-22	12-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8180	Preparation & Submission - Proposals for the construction of the Project Manager's Site Offices	6	11-Jul-22	18-Jul-22	11-Jul-22 A	18-Jul-22 A	100%	
MMRDA_PG4_8190	Preparation & Submission - QMS documentation	6	12-Jul-22	20-Jul-22	12-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8200	Preparation & Submission - Quality Plan and associated procedures	6	13-Jul-22	20-Jul-22	13-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8210	Preparation & Submission - Site Environmental Plan	6	11-Jul-22	18-Jul-22	11-Jul-22 A	18-Jul-22 A	100%	
MMRDA_PG4_8220	Preparation & Submission - System Safety Assurance Plan	2	11-Jul-22	13-Jul-22	11-Jul-22 A	13-Jul-22 A	100%	
MMRDA_PG4_8230	Preparation & Submission - Testing & Commissioning Program	6	11-Jul-22	18-Jul-22	11-Jul-22 A	18-Jul-22 A	100%	
MMRDA_PG4_8240	Preparation & Submission - Risk Management Plan	6	11-Jul-22	18-Jul-22	11-Jul-22 A	18-Jul-22 A	100%	
MMRDA_PG4_8250	Preparation & Submission - Three Month Rolling Programme (Initial)	6	12-Jul-22	20-Jul-22	12-Jul-22 A	20-Jul-22 A	100%	
MMRDA_PG4_8260	Completion Of Submission	6	25-Jul-22	02-Aug-22	25-Jul-22 A	02-Aug-22 A	100%	
Review & Comments by GC/MMRDA		54	13-Jul-22	14-Sep-22	13-Jul-22 A	14-Sep-22 A		
MMRDA_PG4_9110	Comments - Detailed Version of Work Program	24	02-Aug-22	30-Aug-22	02-Aug-22 A	30-Aug-22 A	100%	
MMRDA_PG4_9120	Comments - Drawings showing the formation works & the layout within the Site	24	21-Jul-22	18-Aug-22	21-Jul-22 A	18-Aug-22 A	100%	
MMRDA_PG4_9150	Comments - Interface Management Plan	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9160	Comments - Manufacturing Testing Program	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9170	Comments - Material Control Schedule	24	21-Jul-22	18-Aug-22	21-Jul-22 A	18-Aug-22 A	100%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
MMRDA_PG4_9180	Comments - Other Plans & Deliverables	24	18-Jul-22	15-Aug-22	18-Jul-22 A	15-Aug-22 A	100%	
MMRDA_PG4_9190	Comments - Proposals for the construction of the Project Manager's Site Offices	24	18-Jul-22	15-Aug-22	18-Jul-22 A	15-Aug-22 A	100%	
MMRDA_PG4_9200	Comments - QMS documentation	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9210	Comments - System Safety Assurance Plan	24	13-Jul-22	10-Aug-22	13-Jul-22 A	10-Aug-22 A	100%	
MMRDA_PG4_9220	Comments - Testing & Commissioning Program	24	18-Jul-22	15-Aug-22	18-Jul-22 A	15-Aug-22 A	100%	
MMRDA_PG4_9230	Comments - Project document control procedure	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9340	Comments- Safety Plan	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9350	Comments- Design Plan	24	17-Aug-22	14-Sep-22	17-Aug-22 A	14-Sep-22 A	100%	
MMRDA_PG4_9370	Comments- Mobilization Programme	24	16-Jul-22	13-Aug-22	16-Jul-22 A	13-Aug-22 A	100%	
MMRDA_PG4_9390	Comments- Design Submission Programme	24	16-Jul-22	13-Aug-22	16-Jul-22 A	13-Aug-22 A	100%	
MMRDA_PG4_9400	Comments- Dispute Board	24	21-Jul-22	18-Aug-22	21-Jul-22 A	18-Aug-22 A	100%	
MMRDA_PG4_9410	Comments- Three months Rolling Programme (initial submission)	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9420	Comments- Initial version of the Works Program	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9430	Comments- Particular Uses of Site	24	18-Jul-22	15-Aug-22	18-Jul-22 A	15-Aug-22 A	100%	
MMRDA_PG4_9440	Comments- Procurement, Manufacturing and Manufacturing Testing Delivery Plan	24	18-Jul-22	15-Aug-22	18-Jul-22 A	15-Aug-22 A	100%	
MMRDA_PG4_9450	Comments- Project Management Plan	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9460	Comments- Quality Plan and associated procedures	24	20-Jul-22	17-Aug-22	20-Jul-22 A	17-Aug-22 A	100%	
MMRDA_PG4_9480	Comments- Risk Management Plan	24	18-Jul-22	15-Aug-22	18-Jul-22 A	15-Aug-22 A	100%	
MMRDA_PG4_9490	Comments- Site Environmental Plan	24	18-Jul-22	15-Aug-22	18-Jul-22 A	15-Aug-22 A	100%	
Resubmission by STRABAG		32	10-Aug-22	16-Sep-22	10-Aug-22 A	16-Sep-22 A		
MMRDA_PG4_8560	Resubmission - Interface Management Plan	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
MMRDA_PG4_8570	Resubmission - Manufacturing Testing Program	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
MMRDA_PG4_8580	Resubmission - QMS documentation	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
MMRDA_PG4_8600	Resubmission- Safety Plan	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
MMRDA_PG4_8610	Resubmission- Design Plan	2	14-Sep-22	16-Sep-22	14-Sep-22 A	16-Sep-22 A	100%	
MMRDA_PG4_8620	Resubmission- Mobilization Programme	2	13-Aug-22	17-Aug-22	13-Aug-22 A	17-Aug-22 A	100%	
MMRDA_PG4_8630	Resubmission- Design Submission Programme	2	13-Aug-22	16-Aug-22	13-Aug-22 A	16-Aug-22 A	100%	
MMRDA_PG4_8640	Resubmission- Detailed Version of Work Program	2	30-Aug-22	01-Sep-22	30-Aug-22 A	01-Sep-22 A	100%	
MMRDA_PG4_8660	Resubmission- Dispute Board	2	18-Aug-22	20-Aug-22	18-Aug-22 A	20-Aug-22 A	100%	
MMRDA_PG4_8670	Resubmission- Project document control procedure	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
MMRDA_PG4_8680	Resubmission- Initial version of the Works Program	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
MMRDA_PG4_8690	Resubmission- Drawings showing the formation works & the layout within the Site	2	18-Aug-22	22-Aug-22	18-Aug-22 A	22-Aug-22 A	100%	
MMRDA_PG4_8710	Resubmission- Material Control Schedule	2	18-Aug-22	22-Aug-22	18-Aug-22 A	22-Aug-22 A	100%	
MMRDA_PG4_8720	Resubmission- Other Plans & Deliverables	2	15-Aug-22	18-Aug-22	15-Aug-22 A	18-Aug-22 A	100%	
MMRDA_PG4_8730	Resubmission- Particular Uses of Site	2	15-Aug-22	18-Aug-22	15-Aug-22 A	18-Aug-22 A	100%	
MMRDA_PG4_8740	Resubmission- Procurement, Manufacturing and Manufacturing Testing Delivery Plan	2	15-Aug-22	18-Aug-22	15-Aug-22 A	18-Aug-22 A	100%	
MMRDA_PG4_8750	Resubmission- Project Management Plan	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
MMRDA_PG4_8760	Resubmission- Proposals for the construction of the Project Manager's Site Offices	2	15-Aug-22	18-Aug-22	15-Aug-22 A	18-Aug-22 A	100%	
MMRDA_PG4_8780	Resubmission- Quality Plan and associated procedures	2	17-Aug-22	20-Aug-22	17-Aug-22 A	20-Aug-22 A	100%	
MMRDA_PG4_8790	Resubmission- Risk Management Plan	2	15-Aug-22	18-Aug-22	15-Aug-22 A	18-Aug-22 A	100%	
MMRDA_PG4_8800	Resubmission- Site Environmental Plan	2	15-Aug-22	18-Aug-22	15-Aug-22 A	18-Aug-22 A	100%	
MMRDA_PG4_8820	Resubmission- System Safety Assurance Plan	2	10-Aug-22	13-Aug-22	10-Aug-22 A	13-Aug-22 A	100%	
MMRDA_PG4_8830	Resubmission- Testing & Commissioning Program	2	15-Aug-22	18-Aug-22	15-Aug-22 A	18-Aug-22 A	100%	
MMRDA_PG4_8840	Resubmission- Three Month Rolling Programme (Initial)	2	17-Aug-22	19-Aug-22	17-Aug-22 A	19-Aug-22 A	100%	
Receipt of NONO from GC/ MMRDA		54	13-Aug-22	15-Oct-22	13-Aug-22 A	15-Oct-22 A		
MMRDA_PG4_8270	Receipt of NONO- Safety Plan	24	19-Aug-22	16-Sep-22	19-Aug-22 A	16-Sep-22 A	100%	
MMRDA_PG4_8280	Receipt of NONO- Design Plan	24	16-Sep-22	15-Oct-22	16-Sep-22 A	15-Oct-22 A	100%	
MMRDA_PG4_8300	Receipt of NONO- Mobilization Programme	24	17-Aug-22	14-Sep-22	17-Aug-22 A	14-Sep-22 A	100%	
MMRDA_PG4_8310	Receipt of NONO- Detailed Submission Programme	24	02-Sep-22	29-Sep-22	02-Sep-22 A	29-Sep-22 A	100%	
MMRDA_PG4_8320	Receipt of NONO- Project document control procedure	24	19-Aug-22	16-Sep-22	19-Aug-22 A	16-Sep-22 A	100%	
MMRDA_PG4_8340	Receipt of NONO- Material Control Schedule	24	22-Aug-22	19-Sep-22	22-Aug-22 A	19-Sep-22 A	100%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_8350	Receipt of NONO- Project Management Plan	24	19-Aug-22	16-Sep-22	19-Aug-22 A	16-Sep-22 A	100%
MMRDA_PG4_8360	Receipt of NONO- Proposals for the construction of the Project Manager 's Site Offices	24	18-Aug-22	15-Sep-22	18-Aug-22 A	15-Sep-22 A	100%
MMRDA_PG4_8380	Receipt of NONO- QMS documentation	24	19-Aug-22	16-Sep-22	19-Aug-22 A	16-Sep-22 A	100%
MMRDA_PG4_8390	Receipt of NONO- Quality Plan and associated procedures	24	20-Aug-22	17-Sep-22	20-Aug-22 A	17-Sep-22 A	100%
MMRDA_PG4_8400	Receipt of NONO- Testing & Commissioning Program	24	18-Aug-22	15-Sep-22	18-Aug-22 A	15-Sep-22 A	100%
MMRDA_PG4_8420	Receipt of NONO- Manufacturing Testing Program	24	19-Aug-22	16-Sep-22	19-Aug-22 A	16-Sep-22 A	100%
MMRDA_PG4_8430	Receipt of NONO-Design Verification and Validation Plan	24	16-Aug-22	13-Sep-22	16-Aug-22 A	13-Sep-22 A	100%
MMRDA_PG4_8440	Receipt of NONO-Dispute Board	24	20-Aug-22	17-Sep-22	20-Aug-22 A	17-Sep-22 A	100%
MMRDA_PG4_8450	Receipt of NONO- Drawings showing the formation works & the layout within the Site	24	22-Aug-22	19-Sep-22	22-Aug-22 A	19-Sep-22 A	100%
MMRDA_PG4_8460	Receipt of NONO-Interface Management Plan	24	19-Aug-22	16-Sep-22	19-Aug-22 A	16-Sep-22 A	100%
MMRDA_PG4_8470	Receipt of NONO-Other Plans & Deliverables	24	18-Aug-22	15-Sep-22	18-Aug-22 A	15-Sep-22 A	100%
MMRDA_PG4_8490	Receipt of NONO-Particular Uses of Site	24	18-Aug-22	15-Sep-22	18-Aug-22 A	15-Sep-22 A	100%
MMRDA_PG4_8500	Receipt of NONO-Procurement, Manufacturing and Manufacturing Testing Delivery Plan	24	18-Aug-22	15-Sep-22	18-Aug-22 A	15-Sep-22 A	100%
MMRDA_PG4_8510	Receipt of NONO-Risk Management Plan	24	18-Aug-22	15-Sep-22	18-Aug-22 A	15-Sep-22 A	100%
MMRDA_PG4_8520	Receipt of NONO-Site Environmental Plan	24	20-Aug-22	17-Sep-22	20-Aug-22 A	17-Sep-22 A	100%
MMRDA_PG4_8540	Receipt of NONO-System Safety Assurance Plan	24	13-Aug-22	10-Sep-22	13-Aug-22 A	10-Sep-22 A	100%
MMRDA_PG4_8550	Receipt of NONO-Three Month Rolling Programme (Initial)	24	19-Aug-22	16-Sep-22	19-Aug-22 A	16-Sep-22 A	100%
Advance payment by the Employer		85	28-Jul-22	05-Nov-22	28-Jul-22 A	05-Nov-22 A	
MMRDA_PG4_100	Submission of Invoice for 1st Advance (5%of the contract value) payment by the Contractor	11	28-Jul-22	10-Aug-22	28-Jul-22 A	10-Aug-22 A	100%
MMRDA_PG4_110	Release of Advance by the Employer (5% of the Contract Value)	17	15-Oct-22	05-Nov-22	15-Oct-22 A	05-Nov-22 A	100%
MMRDA_PG4_130	Submission of Invoice for 2nd Advance(5% of the contract value) payment by the Contractor	11	28-Jul-22	10-Aug-22	28-Jul-22 A	10-Aug-22 A	100%
MRDA_PG4_140	Release of Advance by the Employer (5% of the Contract Value)	10	15-Oct-22	28-Oct-22	15-Oct-22 A	28-Oct-22 A	100%
Design		98	11-Jul-22	04-Nov-22	11-Jul-22 A	26-Dec-23	
Initial Design Deliverables		19	11-Jul-22	02-Aug-22	11-Jul-22 A	02-Aug-22 A	
P4IDD1350	Design Quality Plans	5	11-Jul-22	16-Jul-22	11-Jul-22 A	16-Jul-22 A	100%
P4IDD1360	Review of Outline Drawings Criteria	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1370	Initial Submission of the Design Manual Including the Identification of Design Codes and Standard	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1380	Submission of Proposed Software	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1390	Initial GAD of Buildings & Road Furnitures	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1400	Initial Off-Site Testing Recommendations	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1410	Submission of Specifications Proposed for the Works	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1420	CAD and Documents Control Procedure	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1430	Initial Design of Interface Requirements	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1440	Alignment Review	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1450	Initial Construction Methodologies and Temporary Work Requirements	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1460	Updated Design Submission Programme	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1470	Initial Traffic Management Plan	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1480	Proposed Site Surveys and Other Field Surveys Including Geotechnical Surveys	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1490	Review of Permanent Land Requirements	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1500	Initial Ground Treatment and Building Protection Proposals	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1510	Initial Reinstatement Drawings	14	16-Jul-22	02-Aug-22	16-Jul-22 A	02-Aug-22 A	100%
P4IDD1520	Initial Construction Utilization Plan Including Segment Casting Yard Details	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1530	Bridge Electrical Drwaings	14	11-Jul-22	27-Jul-22	11-Jul-22 A	27-Jul-22 A	100%
P4IDD1540	Design Document For bridge	14	16-Jul-22	02-Aug-22	16-Jul-22 A	02-Aug-22 A	100%
P4IDD1550	Design Doc Aesthetic Lighting	14	16-Jul-22	02-Aug-22	16-Jul-22 A	02-Aug-22 A	100%
Technical Design		89	21-Jul-22	04-Nov-22	21-Jul-22 A	26-Dec-23	
Initial Design		53	21-Jul-22	21-Sep-22	21-Jul-22 A	12-Dec-23	
Civil		48	27-Jul-22	21-Sep-22	27-Jul-22 A	12-Dec-23	
Gavan		47	28-Jul-22	21-Sep-22	28-Jul-22 A	12-Dec-23	
P4ADG1820	Main Administration and Command Control Centre Building (G+2) - Civil Layout	24	28-Jul-22	25-Aug-22	28-Jul-22 A	10-Oct-23	70%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:29	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4ADG1830	Lane Tol Plaza with Underground Toll Tunnel - Civil Layout	24	28-Jul-22	25-Aug-22	28-Jul-22 A	10-Oct-23	70%	
P4ADG1840	Food Plaza - 1 - Civil Layout	24	24-Aug-22	21-Sep-22	24-Aug-22 A	17-Oct-23	70%	
P4ADG1850	Food Plaza - 2 - Civil Layout	24	24-Aug-22	21-Sep-22	24-Aug-22 A	17-Oct-23	70%	
P4ADG1860	Landscape Layout	24	24-Aug-22	21-Sep-22	24-Aug-22 A	12-Dec-23	0%	
Shivaji Nagar		24	27-Jul-22	24-Aug-22	27-Jul-22 A	18-Oct-23		
P4ADSH1600	Administration and Command Control Centre Building (G+1) - Civil Layout	24	27-Jul-22	24-Aug-22	27-Jul-22 A	12-Oct-23	60%	
P4ADSH1610	Porta Cabins - Civil Layout	24	27-Jul-22	24-Aug-22	27-Jul-22 A	14-Oct-23	50%	
P4ADSH1620	Ramp Toll Plaza - Civil Layout	24	27-Jul-22	24-Aug-22	27-Jul-22 A	14-Oct-23	50%	
P4ADSH1630	Static Weigh Bridge- Civil Layout	24	27-Jul-22	24-Aug-22	27-Jul-22 A	18-Oct-23	40%	
Sewri		24	27-Jul-22	24-Aug-22	27-Jul-22 A	12-Oct-23		
P4ADSE1348	Administration and Command Control Centre Building (G+1) - Civil Layout	24	27-Jul-22	24-Aug-22	27-Jul-22 A	12-Oct-23	60%	
P4ADSE1358	Switching Station - Civil Layout	24	27-Jul-22	24-Aug-22	27-Jul-22 A	12-Oct-23	60%	
Miscellaneous Drawings		20	27-Jul-22	19-Aug-22	27-Jul-22 A	07-Oct-23		
P4ADMD1490	High Mast Foundation Details	15	27-Jul-22	13-Aug-22	27-Jul-22 A	07-Oct-23	60%	
P4ADMD1500	CCTV Pole Foundation Details on Crash Barrier	15	27-Jul-22	13-Aug-22	27-Jul-22 A	03-Aug-22 A	100%	
P4ADMD1510	Light Pole Foundation Details	15	02-Aug-22	19-Aug-22	02-Aug-22 A	19-Aug-22 A	100%	
P4ADMD1520	Gantry Foundation Details	10	02-Aug-22	13-Aug-22	02-Aug-22 A	05-Oct-23	60%	
P4ADMD1530	Detailed Drawing of Road	15	27-Jul-22	13-Aug-22	27-Jul-22 A	06-Oct-23	70%	
MEP		43	27-Jul-22	15-Sep-22	27-Jul-22 A	22-Nov-23		
Gavan		43	27-Jul-22	15-Sep-22	27-Jul-22 A	22-Nov-23		
P4ADG1340	Main Administration and Command Control Centre Building (G+2) - Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay	14	05-Aug-22	22-Aug-22	05-Aug-22 A	11-Oct-23	40%	
P4ADG1342	Main Administration and Command Control Centre Building (G+2) - Plumbing Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	09-Oct-23	50%	
P4ADG1344	Main Administration and Command Control Centre Building (G+2) - Drainage Layout	14	28-Jul-22	13-Aug-22	28-Jul-22 A	11-Oct-23	40%	
P4ADG1346	Main Administration and Command Control Centre Building (G+2) - HVAC Layout	14	28-Jul-22	13-Aug-22	28-Jul-22 A	11-Oct-23	40%	
P4ADG1348	Main Administration and Command Control Centre Building (G+2) - FF Layout	14	28-Jul-22	13-Aug-22	28-Jul-22 A	11-Oct-23	40%	
P4ADG1350	Lane Tol Plaza with Underground Toll Tunnel - Electrical Layout	14	04-Aug-22	20-Aug-22	04-Aug-22 A	11-Oct-23	40%	
P4ADG1352	Lane Tol Plaza with Underground Toll Tunnel - Plumbing Layout	14	09-Aug-22	25-Aug-22	09-Aug-22 A	11-Oct-23	40%	
P4ADG1354	Lane Tol Plaza with Underground Toll Tunnel - Drainage Layout	14	15-Aug-22	31-Aug-22	15-Aug-22 A	09-Oct-23	50%	
P4ADG1356	Lane Tol Plaza with Underground Toll Tunnel - HVAC Layout	14	20-Aug-22	06-Sep-22	20-Aug-22 A	09-Oct-23	50%	
P4ADG1358	Lane Tol Plaza with Underground Toll Tunnel - FF Layout	14	26-Aug-22	12-Sep-22	26-Aug-22 A	09-Oct-23	50%	
P4ADG1360	Food Plaza - 1 - Electrical Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1362	Food Plaza - 1 - Plumbing Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1364	Food Plaza - 1 - Drainage Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1366	Food Plaza - 1 - HVAC Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1368	Food Plaza - 1 - FF Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1370	Food Plaza - 2 - Electrical Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1372	Food Plaza - 2 - Plumbing Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1374	Food Plaza - 2 - Drainage Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1376	Food Plaza - 2 - HVAC Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1378	Food Plaza - 2 - FF Layout	12	27-Jul-22	10-Aug-22	27-Jul-22 A	07-Oct-23	50%	
P4ADG1380	Landscape Layout	14	30-Aug-22	15-Sep-22	30-Aug-22 A	22-Nov-23	50%	
P4ADG1390	Design Basis Report Gavhan	14	04-Aug-22	20-Aug-22	04-Aug-22 A	09-Oct-23	50%	
Shivaji Nagar		20	27-Jul-22	18-Aug-22	27-Jul-22 A	11-Oct-23		
P4ADSH1232	Administration and Command Control Centre Building (G+2) -Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	
P4ADSH1233	Administration and Command Control Centre Building (G+2) - Plumbing Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	
P4ADSH1234	Administration and Command Control Centre Building (G+2) - Drainage Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	
P4ADSH1235	Administration and Command Control Centre Building (G+2) - HVAC Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	
P4ADSH1236	Administration and Command Control Centre Building (G+2) - FF Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	
P4ADSH1242	Porta Cabins - Electrical Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	
P4ADSH1243	Porta Cabins - Plumbing Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	
P4ADSH1244	Porta Cabins - Drainage Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:29	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4ADSH1245	Porta Cabins - HVAC Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%
P4ADSH1246	Porta Cabins - FF Layout	14	02-Aug-22	18-Aug-22	02-Aug-22 A	11-Oct-23	40%
P4ADSH125	Ramp Toll Plaza - Electrical Layout	14	01-Aug-22	17-Aug-22	01-Aug-22 A	11-Oct-23	40%
P4ADSH1252	Ramp Toll Plaza - Plumbing Layout	14	01-Aug-22	17-Aug-22	01-Aug-22 A	11-Oct-23	40%
P4ADSH1253	Ramp Toll Plaza - Drainage Layout	14	01-Aug-22	17-Aug-22	01-Aug-22 A	11-Oct-23	40%
P4ADSH1254	Ramp Toll Plaza - HVAC Layout	14	01-Aug-22	17-Aug-22	01-Aug-22 A	11-Oct-23	40%
P4ADSH1255	Ramp Toll Plaza - FF Layout	14	01-Aug-22	17-Aug-22	01-Aug-22 A	11-Oct-23	40%
P4ADSH1262	Static Weigh Bridge	14	01-Aug-22	17-Aug-22	01-Aug-22 A	11-Oct-23	40%
P4ADSH1272	Design Basis Report Shivaji Nagar	14	27-Jul-22	12-Aug-22	27-Jul-22 A	11-Oct-23	40%
Sewri		16	27-Jul-22	15-Aug-22	27-Jul-22 A	17-Oct-23	
P4ADSE1120	Administration and Command Control Centre Building (G+1) - Electrical, Equipmenet, Lighting, Power, Cable& Lighting Lay	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1121	Administration and Command Control Centre Building (G+1) - Plumbing Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1122	Administration and Command Control Centre Building (G+1) - Drainage Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1123	Administration and Command Control Centre Building (G+1) - HVAC Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1125	Administration and Command Control Centre Building (G+1) - FF Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1130	Switching Station - Electrical Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1132	Switching Station - Plumbing Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1134	Switching Station - Drainage Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1136	Switching Station - HVAC Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1138	Switching Station - FF Layout	14	29-Jul-22	15-Aug-22	29-Jul-22 A	17-Oct-23	0%
P4ADSE1148	Design Basis Report Sewri	14	27-Jul-22	12-Aug-22	27-Jul-22 A	17-Oct-23	0%
Design Document For Bridge		14	02-Aug-22	18-Aug-22	02-Aug-22 A	09-Oct-23	
A1730	Design Document For bridge	14	02-Aug-22	18-Aug-22	02-Aug-22 A	09-Oct-23	50%
A1750	Design Doc Lighting	14	02-Aug-22	18-Aug-22	02-Aug-22 A	09-Oct-23	50%
Advanced Traffic Management System (ATMS)		24	21-Jul-22	18-Aug-22	21-Jul-22 A	18-Aug-22 A	
A1010	Advanced Traffic Management System Layout	24	21-Jul-22	18-Aug-22	21-Jul-22 A	18-Aug-22 A	100%
Electrical Bridge		15	12-Aug-22	30-Aug-22	12-Aug-22 A	10-Oct-23	
A1700	Bridge Electrical Layout	15	12-Aug-22	30-Aug-22	12-Aug-22 A	10-Oct-23	50%
Toll Management System (TMS)		10	27-Jul-22	08-Aug-22	27-Jul-22 A	08-Aug-22 A	
A1000	Toll Management System Layout	10	27-Jul-22	08-Aug-22	27-Jul-22 A	08-Aug-22 A	100%
Detailed Design		67	29-Jul-22	17-Oct-22	29-Jul-22 A	26-Dec-23	
Civil		54	13-Aug-22	17-Oct-22	13-Aug-22 A	26-Dec-23	
Architectural Drawings		41	24-Aug-22	12-Oct-22	24-Aug-22 A	26-Dec-23	
Gavan		40	25-Aug-22	12-Oct-22	25-Aug-22 A	26-Dec-23	
P4ADG1000	Main Administration and Command Control Centre Building (G+3) - Architectural Drawing - Gavan	17	25-Aug-22	14-Sep-22	25-Aug-22 A	13-Oct-23	80%
P4ADG1020	Lane Tol Plaza with Underground Toll Tunnel - Architectural Drawing - Gavan	17	25-Aug-22	14-Sep-22	25-Aug-22 A	13-Oct-23	80%
P4ADG1040	Food Plaza - 1 - Architectural Drawing - Gavan	17	29-Aug-22	17-Sep-22	29-Aug-22 A	09-Jun-23 A	100%
P4ADG1060	Food Plaza - 2 - Architectural Drawing - Gavan	17	29-Aug-22	17-Sep-22	29-Aug-22 A	17-Oct-23	60%
P4ADG1080	Landscape Layout - Architectural Drawing - Gavan	17	21-Sep-22	12-Oct-22	21-Sep-22 A	26-Dec-23	40%
Shivaji Nagar		17	24-Aug-22	13-Sep-22	24-Aug-22 A	28-Oct-23	
P4ADSH1000	Administration and Command Control Centre Building (G+1) - Architectural Drawing - Shivaji Nagar	17	24-Aug-22	13-Sep-22	24-Aug-22 A	26-Nov-22 A	100%
P4ADSH1020	Porta Cabins - Architectural Drawing - Shivaji Nagar	17	24-Aug-22	13-Sep-22	24-Aug-22 A	26-Oct-23	50%
P4ADSH1040	Ramp Toll Plaza - Architectural Drawing - Shivaji Nagar	17	24-Aug-22	13-Sep-22	24-Aug-22 A	26-Oct-23	50%
P4ADSH1042	Static Weigh Bridge - Architectural Drawing - Shivaji Nagar	17	24-Aug-22	13-Sep-22	24-Aug-22 A	28-Oct-23	50%
Sewri		11	25-Aug-22	07-Sep-22	25-Aug-22 A	17-Oct-23	
P4ADSE1000	Administration and Command Control Centre Building (G+1) - Sewri	11	25-Aug-22	07-Sep-22	25-Aug-22 A	19-Nov-22 A	100%
P4ADSE1002	Switching Station - Architectural Drawing	11	25-Aug-22	07-Sep-22	25-Aug-22 A	17-Oct-23	70%
Structural & G.A. Drawings - MTHL Pkg. IV		44	25-Aug-22	17-Oct-22	25-Aug-22 A	31-Oct-23	
Gavan		44	25-Aug-22	17-Oct-22	25-Aug-22 A	17-Oct-23	
Main Administration and Command Control Centre Building (G+2) - Structural - Gavan		20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	
P4DGMAB1	MAB Footing Drawings	20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	70%

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TASK filter: All Activities

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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4DGMAB1	MAB Plinth Beam Drawing	20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	70%	
P4DGMAB1	MAB Column Drawing	20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	70%	
P4DGMAB1	MAB Slab Drawing	20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	70%	
P4DGMAB1	MAB First Floor Structural - Gavan	20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	70%	
P4DGMAB1	MAB Second Floor Structural - Gavan	20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	70%	
P4DGMAB1	MAB Third Floor Structural - Gavan	20	25-Aug-22	17-Sep-22	25-Aug-22 A	17-Oct-23	70%	
Food Plaza - 1 - Structural - Gavan		43	26-Aug-22	17-Oct-22	26-Aug-22 A	17-Feb-23 A		
P4DGFP11C	Food Plaza 1 Footing Drawings	18	26-Aug-22	16-Sep-22	26-Aug-22 A	16-Sep-22 A	100%	
P4DGFP11C	Food Plaza 1 Plinth Beam Drawing	18	16-Sep-22	08-Oct-22	16-Sep-22 A	08-Oct-22 A	100%	
P4DGFP11C	Food Plaza 1 Column Drawing	18	19-Sep-22	11-Oct-22	19-Sep-22 A	11-Oct-22 A	100%	
P4DGFP11C	Food Plaza 1 Slab Drawing	18	22-Sep-22	14-Oct-22	22-Sep-22 A	14-Oct-22 A	100%	
P4DGFP11C	Food Plaza 1 First Floor Structural - Gavan	18	24-Sep-22	17-Oct-22	24-Sep-22 A	17-Feb-23 A	100%	
Food Plaza - 2 - Structural - Gavan		31	02-Sep-22	10-Oct-22	02-Sep-22 A	07-Feb-23 A		
P4DSFP22C	Food Plaza 2 Footing Drawings	21	02-Sep-22	27-Sep-22	02-Sep-22 A	27-Sep-22 A	100%	
P4DSFP22C	Food Plaza 2 Plinth Beam Drawing	21	03-Sep-22	28-Sep-22	03-Sep-22 A	28-Sep-22 A	100%	
P4DSFP22C	Food Plaza 2 Column Drawing	21	06-Sep-22	30-Sep-22	06-Sep-22 A	30-Sep-22 A	100%	
P4DSFP22C	Food Plaza 2 Slab Drawing	21	09-Sep-22	04-Oct-22	09-Sep-22 A	04-Oct-22 A	100%	
P4DSFP22C	Food Plaza 2 First Floor Structural - Gavan	21	14-Sep-22	10-Oct-22	14-Sep-22 A	07-Feb-23 A	100%	
Shivaji Nagar		30	29-Aug-22	01-Oct-22	29-Aug-22 A	31-Oct-23		
P4ADSH1060	Administration and Command Control Centre Building (G+1) - Structural - Shivaji Nagar	21	29-Aug-22	22-Sep-22	29-Aug-22 A	23-Feb-23 A	100%	
P4ADSH1080	Porta Cabins - Structural & G.A. Drawing - Shivaji Nagar	21	29-Aug-22	22-Sep-22	29-Aug-22 A	28-Oct-23	50%	
P4ADSH1100	Ramp Toll Plaza - Structural & G.A. Drawing - Shivaji Nagar	21	29-Aug-22	22-Sep-22	29-Aug-22 A	26-Oct-23	60%	
P4ADSH1102	Static Weigh Bridge - Structural & G.A. Drawing - Shivaji Nagar	21	29-Aug-22	22-Sep-22	29-Aug-22 A	31-Oct-23	50%	
Administration and Command Control Centre Building (G+1) - Structural - Shivaji Nagar		30	29-Aug-22	01-Oct-22	29-Aug-22 A	23-Feb-23 A		
P4DGSAB1	SAB Footing Drawings	21	29-Aug-22	22-Sep-22	29-Aug-22 A	22-Sep-22 A	100%	
P4DGSAB1	SAB Plinth Beam Drawing	21	31-Aug-22	24-Sep-22	31-Aug-22 A	24-Sep-22 A	100%	
P4DGSAB1	SAB Column Drawing	21	03-Sep-22	28-Sep-22	03-Sep-22 A	28-Sep-22 A	100%	
P4DGSAB1	SAB Slab Drawing	21	06-Sep-22	30-Sep-22	06-Sep-22 A	30-Sep-22 A	100%	
P4DGSAB1	SAB First Floor Structural & G.A. Drawing - Gavan	20	08-Sep-22	01-Oct-22	08-Sep-22 A	23-Feb-23 A	100%	
Sewri		32	25-Aug-22	01-Oct-22	25-Aug-22 A	28-Oct-23		
P4ADSE1040	Administration and Command Control Centre Building (G+1) - Structural & G.A. Drawing - Sewri	21	25-Aug-22	19-Sep-22	25-Aug-22 A	12-Apr-23 A	100%	
P4ADSE1060	Switching Station - Structural & G.A. Drawing - Sewri	21	07-Sep-22	01-Oct-22	07-Sep-22 A	28-Oct-23	60%	
Administration and Command Control Centre Building (G+1) - Structural - Sewri		20	29-Aug-22	20-Sep-22	29-Aug-22 A	12-Apr-23 A		
P4DSFSAB	SABCC Footing Drawings	10	29-Aug-22	09-Sep-22	29-Aug-22 A	09-Sep-22 A	100%	
P4DSFSAB	SABCC Plinth Beam Drawing	10	31-Aug-22	12-Sep-22	31-Aug-22 A	12-Sep-22 A	100%	
P4DSFSAB	SABCC Column Drawing	10	03-Sep-22	15-Sep-22	03-Sep-22 A	15-Sep-22 A	100%	
P4DSFSAB	SABCC Slab Drawing	10	06-Sep-22	17-Sep-22	06-Sep-22 A	17-Sep-22 A	100%	
P4DSFSAB	SABCC First Floor Structural - Gavan	10	08-Sep-22	20-Sep-22	08-Sep-22 A	12-Apr-23 A	100%	
Miscellaneous Drawings		31	13-Aug-22	19-Sep-22	13-Aug-22 A	17-Nov-23		
P4ADMD1100	High Mast Foundation Details - Structural & G.A. Drawing - Miscellaneous	17	30-Aug-22	19-Sep-22	30-Aug-22 A	17-Nov-23	0%	
P4ADMD1120	CCTV Pole Foundation Details on Crash Barrier - Structural & G.A. Drawing - Miscellaneous	17	30-Aug-22	19-Sep-22	30-Aug-22 A	20-Oct-23	0%	
P4ADMD1140	Light Pole Foundation Details - Structural & G.A. Drawing - Miscellaneous	17	19-Aug-22	08-Sep-22	19-Aug-22 A	20-Oct-23	0%	
P4ADMD1160	Gantry Foundation Details - Structural & G.A. Drawing - Miscellaneous	17	13-Aug-22	02-Sep-22	13-Aug-22 A	02-Sep-22 A	100%	
P4ADMD1180	Detailed Drawing of Road - Structural & G.A. Drawing - Miscellaneous	17	13-Aug-22	02-Sep-22	13-Aug-22 A	27-Oct-23	0%	
MEP		64	29-Jul-22	14-Oct-22	29-Jul-22 A	05-Dec-23		
Gavan		52	10-Aug-22	11-Oct-22	10-Aug-22 A	05-Dec-23		
P4ADG1596	Landscape Layout - Technical Drawing - Technical Drawing - Gavan	21	15-Sep-22	11-Oct-22	15-Sep-22 A	05-Dec-23	50%	
P4ADG1606	Underground Tunnel Plumbing,HVAC ,FF - Technical Drawing - Gavan	21	15-Sep-22	11-Oct-22	15-Sep-22 A	05-Dec-23	50%	
P4ADG1616	Design Basis Report Gavhan	21	15-Sep-22	11-Oct-22	15-Sep-22 A	05-Dec-23	50%	
Main Admin Bldg & Control Centre Building - Electrical Layout - Technical Drawing		15	16-Sep-22	04-Oct-22	16-Sep-22 A	01-Dec-23		
P4ADGEL1680	MAB-Electrical,Power Lighting,Cable,Earthing & Ligting protection Layouts - Technical Drawing Ground Floor	14	16-Sep-22	03-Oct-22	16-Sep-22 A	30-Nov-23	50%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4ADGEL1690	MAB-Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay Technical Drawing First Floor	15	16-Sep-22	04-Oct-22	16-Sep-22 A	01-Dec-23	50%	
P4ADGEL1700	MAB-Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay - Technical Drawing Second Floor	15	16-Sep-22	04-Oct-22	16-Sep-22 A	01-Dec-23	50%	
P4ADGEL1710	MAB-Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay - Technical Drawing Third Floor	15	16-Sep-22	04-Oct-22	16-Sep-22 A	01-Dec-23	50%	
Main Admin Bldg & Control Centre Building - Plumbing Layout - Technical Drawing		43	13-Aug-22	03-Oct-22	13-Aug-22 A	03-Nov-23		
P4MABPL1680	MAB-Plumbing Layout - Technical Drawing Ground Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	20-Oct-23	50%	
P4MABPL1690	MAB-Plumbing Layout - Technical Drawing First Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	20-Oct-23	50%	
P4MABPL1700	MAB-Plumbing Layout - Technical Drawing Second Floor	21	07-Sep-22	01-Oct-22	07-Sep-22 A	02-Nov-23	50%	
P4MABPL1710	MAB-Plumbing Layout - Technical Drawing Third Floor	21	08-Sep-22	03-Oct-22	08-Sep-22 A	03-Nov-23	50%	
Main Admin Bldg & Control Centre Building - Drainage Layout - Technical Drawing		43	13-Aug-22	03-Oct-22	13-Aug-22 A	07-Nov-23		
P4MABDL1680	MAB-Drainage Layout - Technical Drawing Ground Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	23-Oct-23	50%	
P4MABDL1690	MAB-Drainage Layout - Technical Drawing First Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	23-Oct-23	50%	
P4MABDL1700	MAB-Drainage Layout - Technical Drawing Second Floor	21	07-Sep-22	01-Oct-22	07-Sep-22 A	06-Nov-23	50%	
P4MABDL1710	MAB-Drainage Layout - Technical Drawing Third Floor	21	08-Sep-22	03-Oct-22	08-Sep-22 A	07-Nov-23	50%	
Main Admin Bldg & Control Centre Building - HVAC Layout - Technical Drawing		43	13-Aug-22	03-Oct-22	13-Aug-22 A	07-Nov-23		
P4MABHV1680	MAB-HVAC Layout - Technical Drawing Ground Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	23-Oct-23	50%	
P4MABHV1690	MAB-HVAC Layout - Technical Drawing First Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	23-Oct-23	50%	
P4MABHV1700	MAB-HVAC Layout - Technical Drawing Second Floor	21	07-Sep-22	01-Oct-22	07-Sep-22 A	06-Nov-23	50%	
P4MABHV1710	MAB-HVAC Layout - Technical Drawing Third Floor	21	08-Sep-22	03-Oct-22	08-Sep-22 A	07-Nov-23	50%	
Main Admin Bldg & Control Centre Building - Fire Fighting Layout - Technical Drawing		43	13-Aug-22	03-Oct-22	13-Aug-22 A	07-Nov-23		
P4MABFFL168	MAB-Fire Fighting Layout- Technical Drawing Ground Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	23-Oct-23	50%	
P4MABFFL169	MAB-Fire Fighting Layout - Technical Drawing First Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	23-Oct-23	50%	
P4MABFFL170	MAB-Fire Fighting Layout - Technical Drawing Second Floor	21	07-Sep-22	01-Oct-22	07-Sep-22 A	06-Nov-23	50%	
P4MABFFL171	MAB-Fire Fighting Layout - Technical Drawing Third Floor	21	08-Sep-22	03-Oct-22	08-Sep-22 A	07-Nov-23	50%	
Food Plaza 1- Electrical Layout - Technical Drawing		22	10-Aug-22	05-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP1EL1680	Food Plaza 1-Electrical Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP1EL1690	Food Plaza 1-Electrical Layout - Technical Drawing First Floor	21	11-Aug-22	05-Sep-22	11-Aug-22 A	20-Oct-23	50%	
Food Plaza 1- Plumbing Layout - Technical Drawing		22	10-Aug-22	05-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP1PL1680	Food Plaza 1-Plumbing Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP1PL1690	Food Plaza 1-Plumbing Layout - Technical Drawing First Floor	21	11-Aug-22	05-Sep-22	11-Aug-22 A	20-Oct-23	50%	
Food Plaza 1- Drainage Layout - Technical Drawing		22	10-Aug-22	05-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP1DLL1680	Food Plaza 1 Drainage Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP1DLL1690	Food Plaza 1-Drainage Layout - Technical Drawing First Floor	21	11-Aug-22	05-Sep-22	11-Aug-22 A	20-Oct-23	50%	
Food Plaza 1- HVAC Layout - Technical Drawing		22	10-Aug-22	05-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP1HVL168	Food Plaza 1-HVAC Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP1HVL169	Food Plaza 1-HVAC Layout - Technical Drawing First Floor	21	11-Aug-22	05-Sep-22	11-Aug-22 A	20-Oct-23	50%	
Food Plaza 1 - Fire Fighting Layout - Technical Drawing		22	10-Aug-22	05-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP1FF1680	Food Plaza 1-Fire Fighting Layout- Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP1FF1690	Food Plaza 1 Fire Fighting Layout - Technical Drawing First Floor	21	11-Aug-22	05-Sep-22	11-Aug-22 A	20-Oct-23	50%	
Food Plaza 2- Electrical Layout - Technical Drawing		22	10-Aug-22	05-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP2EL1680	Food Plaza 2-Electrical Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP2EL1690	Food Plaza 2-Electrical Layout - Technical Drawing First Floor	21	11-Aug-22	05-Sep-22	11-Aug-22 A	20-Oct-23	50%	
Food Plaza 2- Plumbing Layout - Technical Drawing		22	10-Aug-22	05-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP2PL1680	Food Plaza 2-Plumbing Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP2PL1690	Food Plaza 2-Plumbing Layout - Technical Drawing First Floor	21	11-Aug-22	05-Sep-22	11-Aug-22 A	20-Oct-23	50%	
Food Plaza 2- Drainage Layout - Technical Drawing-1		23	10-Aug-22	06-Sep-22	10-Aug-22 A	20-Oct-23		
P4FP2DL1680	Food Plaza 2-Drainage Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP2DL1690	Food Plaza 2-Drainage Layout - Technical Drawing First Floor	21	12-Aug-22	06-Sep-22	12-Aug-22 A	20-Oct-23	50%	
Food Plaza 2- HVAC Layout - Technical Drawing-1		46	10-Aug-22	03-Oct-22	10-Aug-22 A	07-Nov-23		
P4FP2HV1680	Food Plaza 2-HVAC Layout - Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%	
P4FP2HV1690	Food Plaza 2-HVAC Layout - Technical Drawing First Floor	21	08-Sep-22	03-Oct-22	08-Sep-22 A	07-Nov-23	50%	
Food Plaza 2 - Fire Fighting Layout - Technical Drawing		25	10-Aug-22	08-Sep-22	10-Aug-22 A	20-Oct-23		

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P4FP2FF1680	Food Plaza 2-Fire Fighting Layout- Technical Drawing Ground Floor	21	10-Aug-22	03-Sep-22	10-Aug-22 A	20-Oct-23	50%
P4FP2FF1690	Food Plaza 2-Fire Fighting Layout - Technical Drawing First Floor	21	15-Aug-22	08-Sep-22	15-Aug-22 A	20-Oct-23	50%
Shivaji Nagar		60	02-Aug-22	12-Oct-22	02-Aug-22 A	10-Nov-23	
P4ADSH1350	Porta Cabins - Electrical Layout - Technical Drawing - Shivaji Nagar	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4ADSH1352	Porta Cabins - Plumbing Layout - Technical Drawing - Shivaji Nagar	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4ADSH1362	Porta Cabins - Drainage Layout - Technical Drawing - Shivaji Nagar	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4ADSH1372	Porta Cabins - HVAC Layout - Technical Drawing - Shivaji Nagar	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4ADSH1382	Porta Cabins - FF Layout - Technical Drawing - Shivaji Nagar	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4ADSH1388	Ramp Toll Plaza - Electrical Layout - Technical Drawing - Shivaji Nagar	21	17-Aug-22	10-Sep-22	17-Aug-22 A	23-Oct-23	50%
P4ADSH1390	Ramp Toll Plaza - Plumbing Layout - Technical Drawing - Shivaji Nagar	21	17-Aug-22	10-Sep-22	17-Aug-22 A	23-Oct-23	50%
P4ADSH1392	Ramp Toll Plaza - Drainage Layout - Technical Drawing - Shivaji Nagar	21	17-Aug-22	10-Sep-22	17-Aug-22 A	23-Oct-23	50%
P4ADSH1402	Ramp Toll Plaza - HVAC Layout - Technical Drawing - Shivaji Nagar	21	17-Aug-22	10-Sep-22	17-Aug-22 A	23-Oct-23	50%
P4ADSH1422	Ramp Toll Plaza - FF Layout - Technical Drawing - Shivaji Nagar	21	17-Aug-22	10-Sep-22	17-Aug-22 A	23-Oct-23	50%
P4ADSH1430	Static Weigh Bridge - Technical Drawing - Shivaji Nagar	21	17-Aug-22	10-Sep-22	17-Aug-22 A	23-Oct-23	50%
P4ADSH1440	Design Basis Report Shivaji Nagar	21	02-Aug-22	26-Aug-22	02-Aug-22 A	13-Oct-23	50%
Shivaji Nagar Admin Bldg & Control Centre Building - Electrical Layout - Technical Drawing		22	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	
P4SABEL1680	SAB-Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay- Technical Drawing Ground Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4SABEL1690	SAB-Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay- Technical Drawing First Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
Shivaji Nagar Admin Bldg & Control Centre Building - Plumbing Layout - Technical Drawing		22	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	
P4SABPL1680	SAB-Plumbing Layout - Technical Drawing Ground Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4SABPL1690	SAB-Plumbing Layout - Technical Drawing First Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
Shivaji Nagar Admin Bldg & Control Centre Building - Drainage Layout - Technical Drawing		22	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	
P4SABDL1680	SAB-Drainage Layout - Technical Drawing Ground Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4SABDL1690	SAB-Drainage Layout - Technical Drawing First Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
Shivaji Nagar Admin Bldg & Control Centre Building - HVAC Layout - Technical Drawing		22	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	
P4SABHV1680	SAB-HVAC Layout - Technical Drawing Ground Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4SABHV1690	SAB-HVAC Layout - Technical Drawing First Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
Shivaji Nagar Admin Bldg & Control Centre Building - Fire Fighting Layout - Technical Drawing		46	18-Aug-22	12-Oct-22	18-Aug-22 A	10-Nov-23	
P4SABFF1680	SAB- Fire Fighting Layout - Technical Drawing Ground Floor	21	18-Aug-22	12-Sep-22	18-Aug-22 A	23-Oct-23	50%
P4SABFF1690	SAB-Fire Fighting Layout - Technical Drawing First Floor	21	16-Sep-22	12-Oct-22	16-Sep-22 A	10-Nov-23	50%
Sewri		36	29-Jul-22	09-Sep-22	29-Jul-22 A	31-Oct-23	
P4ADSE1200	Switching Station - Electrical Layout - Technical Drawing - Sewri	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4ADSE1208	Switching Station - Plumbing Layout - Technical Drawing - Sewri	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4ADSE1218	Switching Station - Drainage Layout - Technical Drawing - Sewri	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4ADSE1228	Switching Station - HVAC Layout - Technical Drawing - Sewri	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4ADSE1238	Switching Station - FF Layout - Technical Drawing - Sewri	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4ADSE1248	Design Basis Report Sewri	21	29-Jul-22	23-Aug-22	29-Jul-22 A	13-Oct-23	50%
Sewri- Command Control Centre Building - Electrical Layout - Technical Drawing		22	15-Aug-22	09-Sep-22	15-Aug-22 A	31-Oct-23	
P4SCCEL1680	SCC-Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay- Technical Drawing Ground Floor	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4SCCEL1690	SCC-Electrical,Equipmenet,Lighting,Power,Cable& Lighting Lay - Technical Drawing First Floor	21	16-Aug-22	09-Sep-22	16-Aug-22 A	31-Oct-23	50%
Sewri- Command Control Centre Building - Plumbing Layout - Technical Drawing		22	15-Aug-22	09-Sep-22	15-Aug-22 A	31-Oct-23	
P4SCCPL1680	SCC-Plumbing Layout - Technical Drawing Ground Floor	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4SCCPL1690	SCC-Plumbing Layout - Technical Drawing First Floor	21	16-Aug-22	09-Sep-22	16-Aug-22 A	31-Oct-23	50%
Sewri- Command Control Centre Building - Drainage Layout - Technical Drawing		22	15-Aug-22	09-Sep-22	15-Aug-22 A	31-Oct-23	
P4SCCDL1680	SCC-Drainage Layout - Technical Drawing Ground Floor	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4SCCDL1690	SCC-Drainage Layout - Technical Drawing First Floor	21	16-Aug-22	09-Sep-22	16-Aug-22 A	31-Oct-23	50%
Sewri- Command Control Centre Building - HVAC Layout - Technical Drawing		22	15-Aug-22	09-Sep-22	15-Aug-22 A	31-Oct-23	
P4SCCHV1680	SCC-HVAC Layout - Technical Drawing Ground Floor	21	15-Aug-22	08-Sep-22	15-Aug-22 A	31-Oct-23	50%
P4SCCHV1690	SCC-HVAC Layout - Technical Drawing First Floor	21	16-Aug-22	09-Sep-22	16-Aug-22 A	31-Oct-23	50%
Sewri- Command Control Centre Building - Fire Fighting Layout - Technical Drawing		22	29-Jul-22	24-Aug-22	29-Jul-22 A	13-Oct-23	
P4SCCFF1680	SCC- Fire Fighting Layout - Technical Drawing Ground Floor	21	29-Jul-22	23-Aug-22	29-Jul-22 A	13-Oct-23	50%



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P4SCFF1690	SCC-Fire Fighting Layout - Technical Drawing First Floor	21	30-Jul-22	24-Aug-22	30-Jul-22 A	13-Oct-23	50%
Miscellaneous Drawings		52	13-Aug-22	14-Oct-22	13-Aug-22 A	30-Nov-23	
P4ADMD1390	High Mast Foundation Details - Technical Drawing - Miscellaneous	21	19-Sep-22	14-Oct-22	19-Sep-22 A	30-Nov-23	50%
P4ADMD1400	CCTV Pole Foundation Details on Crash Barrier - Technical Drawing - Miscellaneous	21	30-Aug-22	23-Sep-22	30-Aug-22 A	13-Oct-23	50%
P4ADMD1410	Light Pole Foundation Details - Technical Drawing - Miscellaneous	21	19-Aug-22	13-Sep-22	19-Aug-22 A	13-Oct-23	50%
P4ADMD1420	Gantry Foundation Details - Technical Drawing - Miscellaneous	21	13-Aug-22	07-Sep-22	13-Aug-22 A	18-Oct-23	50%
P4ADMD1430	Detailed Drawing of Road - Technical Drawing - Miscellaneous	21	13-Aug-22	07-Sep-22	13-Aug-22 A	18-Oct-23	50%
Design Document For Bridge		21	18-Aug-22	12-Sep-22	18-Aug-22 A	21-Oct-23	
A1740	Design Document For bridge	21	18-Aug-22	12-Sep-22	18-Aug-22 A	21-Oct-23	50%
A1760	Design Doc Aesthetic Lighting	21	18-Aug-22	12-Sep-22	18-Aug-22 A	21-Oct-23	50%
Advanced Traffic Management System (ATMS)		21	18-Aug-22	12-Sep-22	18-Aug-22 A	09-Oct-23	
A1050	Advanced Traffic Management System Layout - Technical Drawing	21	18-Aug-22	12-Sep-22	18-Aug-22 A	09-Oct-23	70%
Electrical Bridge		14	12-Sep-22	28-Sep-22	12-Sep-22 A	30-Oct-23	
A1710	Electrical Bridge Layout - Technical Drawing	14	12-Sep-22	28-Sep-22	12-Sep-22 A	30-Oct-23	60%
Toll Management System (TMS)		30	08-Aug-22	12-Sep-22	08-Aug-22 A	18-Oct-23	
A1040	Toll Management System Layout - Technical Drawing	30	08-Aug-22	12-Sep-22	08-Aug-22 A	18-Oct-23	50%
Construction Drawings		69	13-Aug-22	04-Nov-22	13-Aug-22 A	30-Nov-23	
Civil		69	13-Aug-22	04-Nov-22	13-Aug-22 A	16-Nov-23	
Gavan		38	31-Aug-22	15-Oct-22	31-Aug-22 A	30-Oct-23	
P4ADG1230	Road Work, Undergrnd Tunnel & Landscape Layout - Construction Drawing - Gavan	15	31-Aug-22	17-Sep-22	31-Aug-22 A	18-Oct-23	50%
Main Administration and Command Control Centre Building (G+3) - Construction Drawing - Gavan		34	05-Sep-22	15-Oct-22	05-Sep-22 A	30-Oct-23	
P4CDMAB117	MAB Footing Drawings	21	05-Sep-22	29-Sep-22	05-Sep-22 A	16-Oct-23	50%
P4CDMAB117	MAB Plinth Beam Drawing	21	07-Sep-22	01-Oct-22	07-Sep-22 A	16-Oct-23	50%
P4CDMAB117	MAB Column Drawing	21	17-Sep-22	13-Oct-22	17-Sep-22 A	30-Oct-23	50%
P4CDMAB117	MAB Slab Drawing	21	20-Sep-22	15-Oct-22	20-Sep-22 A	30-Oct-23	50%
P4CDMAB117	MAB First Floor Structural - Gavan	14	22-Sep-22	10-Oct-22	22-Sep-22 A	26-Oct-23	50%
P4CDMAB117	MAB Second Floor Structural Gavan	14	22-Sep-22	10-Oct-22	22-Sep-22 A	26-Oct-23	50%
P4CDMAB117	MAB Second Floor Structural Gavan	14	27-Sep-22	14-Oct-22	27-Sep-22 A	26-Oct-23	50%
Food Plaza - 1 - Construction Drawing - Gavan		34	02-Sep-22	13-Oct-22	02-Sep-22 A	25-Oct-23	
P4CDFP11417	Food Plaza 1 Footing Drawings	21	02-Sep-22	27-Sep-22	02-Sep-22 A	21-Oct-23	50%
P4CDFP11417	Food Plaza 1 Plinth Beam Drawing	21	05-Sep-22	29-Sep-22	05-Sep-22 A	21-Oct-23	50%
P4CDFP11417	Food Plaza 1 Column Drawing	20	08-Sep-22	01-Oct-22	08-Sep-22 A	21-Oct-23	50%
P4CDFP11417	Food Plaza 1 Slab Drawing	14	26-Sep-22	13-Oct-22	26-Sep-22 A	25-Oct-23	50%
P4CDFP11417	Food Plaza 1 First Floor Structural Gavan	14	26-Sep-22	13-Oct-22	26-Sep-22 A	25-Oct-23	50%
Food Plaza - 2 - Construction Drawing - Gavan		31	02-Sep-22	10-Oct-22	02-Sep-22 A	28-Oct-23	
P4CDFP21172	Food Plaza 2 Footing Drawings	14	02-Sep-22	19-Sep-22	02-Sep-22 A	18-Oct-23	50%
P4CDFP21173	Food Plaza 2 Plinth Beam Drawing	14	05-Sep-22	21-Sep-22	05-Sep-22 A	18-Oct-23	50%
P4CDFP21174	Food Plaza 2 Column Drawing	14	07-Sep-22	23-Sep-22	07-Sep-22 A	18-Oct-23	50%
P4CDFP21175	Food Plaza 2 Slab Drawing	14	14-Sep-22	30-Sep-22	14-Sep-22 A	18-Oct-23	50%
P4CDFP21176	Food Plaza 2 First Floor Structural Gavan	14	22-Sep-22	10-Oct-22	22-Sep-22 A	28-Oct-23	50%
Shivaji Nagar		21	22-Sep-22	18-Oct-22	22-Sep-22 A	16-Nov-23	
P4ADSH1112	Administration and Command Control Centre Building (G+2) - Construction Drawing - Shivaji Nagar	21	22-Sep-22	18-Oct-22	22-Sep-22 A	09-Nov-23	50%
P4ADSH1122	Porta Cabins - Construction Drawing - Shivaji Nagar	21	22-Sep-22	18-Oct-22	22-Sep-22 A	09-Nov-23	50%
P4ADSH1132	Ramp Toll Plaza - Construction Drawing - Shivaji Nagar	21	22-Sep-22	18-Oct-22	22-Sep-22 A	07-Nov-23	50%
P4ADSH1172	Static Weigh Bridge - Construction Drawing - Shivaji Nagar	21	22-Sep-22	18-Oct-22	22-Sep-22 A	16-Nov-23	50%
Administration and Command Control Centre Building (G+2) - Construction Drawing - Shivaji Nagar		21	22-Sep-22	18-Oct-22	22-Sep-22 A	08-Nov-23	
P4SABCD720	SAB Footing Drawings	14	22-Sep-22	10-Oct-22	22-Sep-22 A	08-Nov-23	50%
P4SABCD730	SAB Plinth Beam Drawing	14	24-Sep-22	12-Oct-22	24-Sep-22 A	08-Nov-23	50%
P4SABCD740	SAB Column Drawing	14	28-Sep-22	15-Oct-22	28-Sep-22 A	08-Nov-23	50%
P4SABCD750	SAB Slab Drawing	14	30-Sep-22	18-Oct-22	30-Sep-22 A	08-Nov-23	50%
P4SABCD760	SAB First Floor Structural & G.A. Drawing - Gavan	12	01-Oct-22	17-Oct-22	01-Oct-22 A	07-Nov-23	50%



Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
Sewri							
P4ADSE1070	Administration and Command Control Centre Building (G+1) - Construction Drawing - Sewri	41	15-Sep-22	04-Nov-22	15-Sep-22 A	08-Nov-23	
P4ADSE1080	Switching Station - Construction Drawing - Sewri	14	19-Sep-22	06-Oct-22	19-Sep-22 A	21-Oct-23	50%
P4ADSE1080	Switching Station - Construction Drawing - Sewri	14	15-Sep-22	01-Oct-22	15-Sep-22 A	26-Oct-23	50%
Administration and Command Control Centre Building (G+1) - Construction Drawing - Sewri							
P4DSFP2100	SABCC Footing Drawings	27	01-Oct-22	04-Nov-22	01-Oct-22 A	08-Nov-23	
P4DSFP2101	SABCC Plinth Beam Drawing	18	01-Oct-22	25-Oct-22	01-Oct-22 A	06-Nov-23	50%
P4DSFP2101	SABCC Plinth Beam Drawing	21	04-Oct-22	31-Oct-22	04-Oct-22 A	08-Nov-23	50%
P4DSFP2102	SABCC Column Drawing	21	08-Oct-22	03-Nov-22	08-Oct-22 A	08-Nov-23	50%
P4DSFP2103	SABCC Slab Drawing	20	11-Oct-22	04-Nov-22	11-Oct-22 A	07-Nov-23	50%
P4DSFP2104	SABCC First Floor Structural - Gavan	18	12-Oct-22	03-Nov-22	12-Oct-22 A	06-Nov-23	50%
Miscellaneous Drawings							
P4ADMD1290	High Mast Foundation Details - Construction Drawing - Miscellaneous	44	13-Aug-22	04-Oct-22	13-Aug-22 A	11-Nov-23	
P4ADMD1300	CCTV Pole Foundation Details on Crash Barrier - Construction Drawing - Miscellaneous	30	30-Aug-22	04-Oct-22	30-Aug-22 A	11-Nov-23	50%
P4ADMD1310	Light Pole Foundation Details - Construction Drawing - Miscellaneous	30	30-Aug-22	04-Oct-22	30-Aug-22 A	18-Oct-23	50%
P4ADMD1310	Light Pole Foundation Details - Construction Drawing - Miscellaneous	30	19-Aug-22	23-Sep-22	19-Aug-22 A	18-Oct-23	50%
P4ADMD1320	Gantry Foundation Details - Construction Drawing - Miscellaneous	30	13-Aug-22	17-Sep-22	13-Aug-22 A	23-Oct-23	50%
P4ADMD1330	Detailed Drawing of Road - Construction Drawing - Miscellaneous	30	13-Aug-22	17-Sep-22	13-Aug-22 A	25-Oct-23	50%
MEP							
MEP							
Gavan							
Main Admin Bldg & Control Centre Building - Electrical Layout - Construction Drawing							
P4MABCDE	MAB-Electrical Layout- Construction Drawing Ground Floor	69	13-Aug-22	04-Nov-22	13-Aug-22 A	30-Nov-23	
P4MABCDE	MAB-Electrical Layout- Construction Drawing First Floor	17	22-Sep-22	13-Oct-22	22-Sep-22 A	30-Nov-23	
P4MABCDE	MAB-Electrical Layout- Construction Drawing Second Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	30-Nov-23	50%
P4MABCDE	MAB-Electrical Layout- Construction Drawing Third Floor	14	26-Sep-22	13-Oct-22	26-Sep-22 A	30-Nov-23	50%
P4MABCDE	MAB-Electrical Layout- Construction Drawing Third Floor	14	26-Sep-22	13-Oct-22	26-Sep-22 A	30-Nov-23	50%
Main Admin Bldg & Control Centre Building - Plumbing Layout - Construction Drawing							
P4MABCDF	MAB-Plumbing Layout- Construction Drawing Ground Floor	53	13-Aug-22	15-Oct-22	13-Aug-22 A	08-Nov-23	
P4MABCDF	MAB-Plumbing Layout- Construction Drawing First Floor	21	13-Aug-22	07-Sep-22	13-Aug-22 A	20-Oct-23	50%
P4MABCDF	MAB-Plumbing Layout- Construction Drawing First Floor	14	07-Sep-22	23-Sep-22	07-Sep-22 A	30-Oct-23	50%
P4MABCDF	MAB-Plumbing Layout- Construction Drawing Second Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	08-Nov-23	50%
P4MABCDF	MAB-Plumbing Layout- Construction Drawing Third Floor	14	28-Sep-22	15-Oct-22	28-Sep-22 A	08-Nov-23	50%
Main Admin Bldg & Control Centre Building - Drainage Layout - Construction Drawing							
P4MABCDI	MAB-Drainage Layout- Construction Drawing Ground Floor	23	07-Sep-22	04-Oct-22	07-Sep-22 A	01-Nov-23	
P4MABCDI	MAB-Drainage Layout- Construction Drawing First Floor	14	07-Sep-22	23-Sep-22	07-Sep-22 A	01-Nov-23	50%
P4MABCDI	MAB-Drainage Layout- Construction Drawing First Floor	14	10-Sep-22	27-Sep-22	10-Sep-22 A	01-Nov-23	50%
P4MABCDI	MAB-Drainage Layout- Construction Drawing Second Floor	14	14-Sep-22	30-Sep-22	14-Sep-22 A	01-Nov-23	50%
P4MABCDI	MAB-Drainage Layout- Construction Drawing Third Floor	14	17-Sep-22	04-Oct-22	17-Sep-22 A	01-Nov-23	50%
Main Admin Bldg & Control Centre Building - HVAC Layout - Construction Drawing							
P4MABCDI	MAB-HVAC Layout- Construction Drawing Ground Floor	55	13-Aug-22	18-Oct-22	13-Aug-22 A	08-Nov-23	
P4MABCDI	MAB-HVAC Layout- Construction Drawing First Floor	14	13-Aug-22	30-Aug-22	13-Aug-22 A	19-Oct-23	50%
P4MABCDI	MAB-HVAC Layout- Construction Drawing First Floor	14	30-Aug-22	15-Sep-22	30-Aug-22 A	28-Oct-23	50%
P4MABCDI	MAB-HVAC Layout- Construction Drawing Second Floor	14	16-Sep-22	03-Oct-22	16-Sep-22 A	07-Nov-23	50%
P4MABCDI	MAB-HVAC Layout- Construction Drawing Third Floor	17	27-Sep-22	18-Oct-22	27-Sep-22 A	08-Nov-23	50%
Main Admin Bldg & Control Centre Building - Fire Fighting Layout - Construction Drawing							
P4MABCDF	MAB-Fire Fighting Layout- Construction Drawing Ground Floor	55	13-Aug-22	18-Oct-22	13-Aug-22 A	08-Nov-23	
P4MABCDF	MAB-Fire Fighting Layout- Construction Drawing Ground Floor	14	13-Aug-22	30-Aug-22	13-Aug-22 A	19-Oct-23	50%
P4MABCDF	MAB-Fire Fighting Layout- Construction Drawing First Floor	14	30-Aug-22	15-Sep-22	30-Aug-22 A	28-Oct-23	50%
P4MABCDF	MAB-Fire Fighting Layout- Construction Drawing Second Floor	14	16-Sep-22	03-Oct-22	16-Sep-22 A	07-Nov-23	50%
P4MABCDF	MAB-Fire Fighting Layout- Construction Drawing Third Floor	16	28-Sep-22	18-Oct-22	28-Sep-22 A	08-Nov-23	50%
Food Plaza 1- Electrical Layout - Construction Drawing							
P4FP1CDEI	Food Plaza 1-Electrical Layout- Construction Drawing Ground Floor	30	17-Aug-22	21-Sep-22	17-Aug-22 A	26-Oct-23	
P4FP1CDEI	Food Plaza 1-Electrical Layout- Construction Drawing Ground Floor	10	17-Aug-22	29-Aug-22	17-Aug-22 A	13-Oct-23	50%
P4FP1CDEI	Food Plaza 1-Electrical Layout- Construction Drawing First Floor	10	29-Aug-22	09-Sep-22	29-Aug-22 A	19-Oct-23	50%
P4FP1CDEI	Food Plaza 1-Electrical Layout- Construction Drawing Second Floor	10	09-Sep-22	21-Sep-22	09-Sep-22 A	26-Oct-23	50%
P4FP1CDEI	Food Plaza 1-Electrical Layout- Construction Drawing Third Floor	10	09-Sep-22	21-Sep-22	09-Sep-22 A	26-Oct-23	50%
Food Plaza 1- Plumbing Layout - Construction Drawing							
P4FP1CDPI	Food Plaza 1-Plumbing Layout- Construction Drawing Ground Floor	28	09-Sep-22	13-Oct-22	09-Sep-22 A	08-Nov-23	
P4FP1CDPI	Food Plaza 1-Plumbing Layout- Construction Drawing Ground Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	31-Oct-23	50%
P4FP1CDPI	Food Plaza 1-Plumbing Layout- Construction Drawing First Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	31-Oct-23	50%



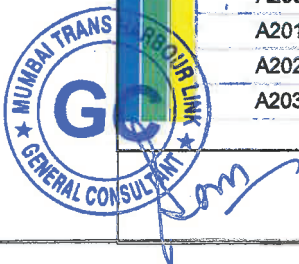
MTHL RWP Till Sep		Classic Schedule Layout						12-Oct-23 12:29
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4FP1CDPI	Food Plaza 1 Plumbing Layout- Construction Drawing Second Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	31-Oct-23	50%	
P4FP1CDPI	Food Plaza 1-Plumbing Layout- Construction Drawing Third Floor	14	26-Sep-22	13-Oct-22	26-Sep-22 A	08-Nov-23	50%	
Food Plaza 1- Drainage Layout - Construction Drawing		28	26-Sep-22	31-Oct-22	26-Sep-22 A	20-Nov-23		
P4FP1CDD	Food Plaza 1 Drainage Layout- Construction Drawing Ground Floor	14	26-Sep-22	13-Oct-22	26-Sep-22 A	08-Nov-23	50%	
P4FP1CDD	Food Plaza 1-Drainage Layout- Construction DrawingFirst Floor	14	13-Oct-22	31-Oct-22	13-Oct-22 A	20-Nov-23	50%	
P4FP1CDD	Food Plaza 1 -Drainage Layout- Construction Drawing Second Floor	14	13-Oct-22	31-Oct-22	13-Oct-22 A	20-Nov-23	50%	
P4FP1CDD	Food Plaza 1 -Drainage Layout- Construction Drawing Third Floor	14	13-Oct-22	31-Oct-22	13-Oct-22 A	20-Nov-23	50%	
Food Plaza 1- HVAC Layout - Construction Drawing		28	13-Sep-22	17-Oct-22	13-Sep-22 A	10-Nov-23		
P4FP1CDH	Food Plaza 1-HVAC Layout- Construction Drawing Ground Floor	14	13-Sep-22	29-Sep-22	13-Sep-22 A	02-Nov-23	50%	
P4FP1CDH	Food Plaza 1-HVAC Layout- Construction Drawing First Floor	14	13-Sep-22	29-Sep-22	13-Sep-22 A	02-Nov-23	50%	
P4FP1CDH	Food Plaza 1 HVAC Layout- Construction Drawing Second Floor	14	13-Sep-22	29-Sep-22	13-Sep-22 A	02-Nov-23	50%	
P4FP1CDH	Food Plaza 1 -HVAC Layout- Construction Drawing Third Floor	14	29-Sep-22	17-Oct-22	29-Sep-22 A	10-Nov-23	50%	
Food Plaza 1 - Fire Fighting Layout - Construction Drawing		28	13-Sep-22	17-Oct-22	13-Sep-22 A	10-Nov-23		
P4FP1CDFI	Food Plaza 1-Fire Fighting Layout- Construction Drawing Ground Floor	14	13-Sep-22	29-Sep-22	13-Sep-22 A	02-Nov-23	50%	
P4FP1CDFI	Food Plaza 1 Fire Fighting Layout- Construction Drawing First Floor	14	13-Sep-22	29-Sep-22	13-Sep-22 A	02-Nov-23	50%	
P4FP1CDFI	Food Plaza 1 Fighting Layout- Construction Drawing Second Floor	14	13-Sep-22	29-Sep-22	13-Sep-22 A	02-Nov-23	50%	
P4FP1CDFI	Food Plaza 1-Fire Fighting Layout- Construction DrawingThird Floor	14	29-Sep-22	17-Oct-22	29-Sep-22 A	10-Nov-23	50%	
Food Plaza 2- Electrical Layout - Construction Drawing		28	08-Sep-22	12-Oct-22	08-Sep-22 A	11-Nov-23		
P4FP2CDEI	Food Plaza 2-Electrical Layout- Construction Drawing Ground Floor	14	08-Sep-22	24-Sep-22	08-Sep-22 A	03-Nov-23	50%	
P4FP2CDEI	Food Plaza 2 -Electrical Layout- Construction Drawing First Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23	50%	
P4FP2CDEI	Food Plaza 2-Electrical Layout- Construction DrawingSecond Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23	50%	
P4FP2CDEI	Food Plaza 2-Electrical Layout- Construction DrawingThird Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23	50%	
Food Plaza 2- Plumbing Layout - Construction Drawing		28	08-Sep-22	12-Oct-22	08-Sep-22 A	11-Nov-23		
P4FP2CDPI	Food Plaza 2-Plumbing Layout- Construction Drawing Ground Floor	14	08-Sep-22	24-Sep-22	08-Sep-22 A	03-Nov-23	50%	
P4FP2CDPI	Food Plaza 2-Plumbing Layout- Construction Drawing First Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23	50%	
P4FP2CDPI	Food Plaza 2-Plumbing Layout- Construction Drawing Second Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23	50%	
P4FP2CDPI	Food Plaza 2-Plumbing Layout- Construction Drawing Third Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23*	50%	
Food Plaza 2- Drainage Layout - Construction Drawing		28	08-Sep-22	12-Oct-22	08-Sep-22 A	11-Nov-23		
P4FP2CDD	Food Plaza 2-Drainage Layout- Construction Drawing Ground Floor	14	08-Sep-22	24-Sep-22	08-Sep-22 A	03-Nov-23	50%	
P4FP2CDD	Food Plaza 2-Drainage Layout- Construction Drawing First Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23	50%	
P4FP2CDD	Food Plaza 2-Drainage Layout- Construction Drawing Second Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23	50%	
P4FP2CDD	Food Plaza 2-Drainage Layout- Construction DrawingThird Floor	14	24-Sep-22	12-Oct-22	24-Sep-22 A	11-Nov-23*	50%	
Food Plaza 2- HVAC Layout - Construction Drawing		19	20-Sep-22	13-Oct-22	20-Sep-22 A	03-Nov-23		
P4FP2CDH	Food Plaza 2-HVAC Layout- Construction DrawingGround Floor	14	20-Sep-22	07-Oct-22	20-Sep-22 A	03-Nov-23	50%	
P4FP2CDH	Food Plaza 2-HVAC Layout- Construction Drawing First Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	03-Nov-23	50%	
P4FP2CDH	Food Plaza 2-HVAC Layout- Construction Drawing Second Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	03-Nov-23	50%	
P4FP2CDH	Food Plaza 2-HVAC Layout- Construction DrawingThird Floor	14	26-Sep-22	13-Oct-22	26-Sep-22 A	03-Nov-23	50%	
Food Plaza 2 - Fire Fighting Layout - Construction Drawing		27	01-Oct-22	04-Nov-22	01-Oct-22 A	10-Nov-23		
P4FP2CDFI	Food Plaza 2-Fire Fighting Layout- Construction Drawing Ground Floor	14	01-Oct-22	19-Oct-22	01-Oct-22 A	03-Nov-23	50%	
P4FP2CDFI	Food Plaza 2-Fire Fighting Layout- Construction Drawing First Floor	14	18-Oct-22	04-Nov-22	18-Oct-22 A	10-Nov-23	50%	
P4FP2CDFI	Food Plaza 2-Fire Fighting Layout- Construction Drawing Second Floor	14	18-Oct-22	04-Nov-22	18-Oct-22 A	10-Nov-23	50%	
P4FP2CDFI	Food Plaza 2-Fire Fighting Layout- Construction Drawing Third Floor	14	18-Oct-22	04-Nov-22	18-Oct-22 A	10-Nov-23	50%	
Shivaji Nagar		52	18-Aug-22	19-Oct-22	18-Aug-22 A	06-Nov-23		
P4ADSH1510	Porta Cabins - Electrical Layout - Construction Drawing - Shivaji Nagar	14	23-Aug-22	08-Sep-22	23-Aug-22 A	19-Oct-23	50%	
P4ADSH1512	Porta Cabins - Plumbing Layout - Construction Drawing - Shivaji Nagar	14	23-Aug-22	08-Sep-22	23-Aug-22 A	19-Oct-23	50%	
P4ADSH1522	Porta Cabins - Drainage Layout - Construction Drawing - Shivaji Nagar	14	23-Aug-22	08-Sep-22	23-Aug-22 A	19-Oct-23	50%	
P4ADSH1532	Porta Cabins - HVAC Layout - Construction Drawing - Shivaji Nagar	14	23-Aug-22	08-Sep-22	23-Aug-22 A	19-Oct-23	50%	
P4ADSH1542	Porta Cabins - FF Layout - Construction Drawing - Shivaji Nagar	14	23-Aug-22	08-Sep-22	23-Aug-22 A	19-Oct-23	50%	
P4ADSH1548	Ramp Toll Plaza - Electrical Layout - Construction Drawing - Shivaji Nagar	14	22-Aug-22	07-Sep-22	22-Aug-22 A	19-Oct-23	50%	
P4ADSH1550	Ramp Toll Plaza - Plumbing Layout - Construction Drawing - Shivaji Nagar	14	22-Aug-22	07-Sep-22	22-Aug-22 A	19-Oct-23	50%	
P4ADSH1552	Ramp Toll Plaza - Drainage Layout - Construction Drawing - Shivaji Nagar	14	22-Aug-22	07-Sep-22	22-Aug-22 A	19-Oct-23	50%	



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:29	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4ADSH1562	Ramp Toll Plaza - HVAC Layout - Construction Drawing - Shivaji Nagar	14	22-Aug-22	07-Sep-22	22-Aug-22 A	19-Oct-23	50%	
P4ADSH1582	Ramp Toll Plaza - FF Layout - Construction Drawing - Shivaji Nagar	14	22-Aug-22	07-Sep-22	22-Aug-22 A	19-Oct-23	50%	
P4ADSH1590	Static Weigh Bridge - Construction Drawing - Shivaji Nagar	14	22-Aug-22	07-Sep-22	22-Aug-22 A	19-Oct-23	50%	
Shivaji Nagar Admin Bldg & Control Centre Building - Electrical Layout - Construction Drawing		12	18-Aug-22	01-Sep-22	18-Aug-22 A	18-Oct-23		
P4SABCD E	SAB-Electrical Layout- Construction Drawing Ground Floor	10	18-Aug-22	30-Aug-22	18-Aug-22 A	17-Oct-23	50%	
P4SABCD E	SAB-Electrical Layout- Construction Drawing First Floor	10	18-Aug-22	30-Aug-22	18-Aug-22 A	17-Oct-23	50%	
P4SABCD E	SAB-Electrical Layout- Construction Drawing Second Floor	12	18-Aug-22	01-Sep-22	18-Aug-22 A	18-Oct-23	50%	
P4SABCD E	SAB-Electrical Layout- Construction DrawingThird Floor	12	18-Aug-22	01-Sep-22	18-Aug-22 A	18-Oct-23	50%	
Shivaji Nagar Admin Bldg & Control Centre Building - Plumbing Layout -Construction Drawing		23	18-Aug-22	14-Sep-22	18-Aug-22 A	19-Oct-23		
P4SABCDP	SAB-Plumbing Layout- Construction Drawing Ground Floor	14	18-Aug-22	03-Sep-22	18-Aug-22 A	19-Oct-23	50%	
P4SABCDP	SAB-Plumbing Layout- Construction Drawing First Floor	14	18-Aug-22	03-Sep-22	18-Aug-22 A	19-Oct-23	50%	
P4SABCDP	SAB-Plumbing Layout- Construction Drawing Second Floor	14	18-Aug-22	03-Sep-22	18-Aug-22 A	19-Oct-23	50%	
P4SABCDP	SAB-Plumbing Layout- Construction DrawingThird Floor	14	29-Aug-22	14-Sep-22	29-Aug-22 A	19-Oct-23	50%	
Shivaji Nagar Admin Bldg & Control Centre Building - Drainage Layout -Construction Drawing		23	12-Sep-22	10-Oct-22	12-Sep-22 A	01-Nov-23		
P4SABCD D	SAB-Drainage Layout- Construction Drawing Ground Floor	14	12-Sep-22	28-Sep-22	12-Sep-22 A	01-Nov-23	50%	
P4SABCD D	SAB-Drainage Layout- Construction Drawing First Floor	14	12-Sep-22	28-Sep-22	12-Sep-22 A	01-Nov-23	50%	
P4SABCD D	SAB-DrainageLayout- Construction Drawing Second Floor	14	12-Sep-22	28-Sep-22	12-Sep-22 A	01-Nov-23	50%	
P4SABCD D	SAB-Drainage Layout- Construction DrawingThird Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	01-Nov-23	50%	
Shivaji Nagar Admin Bldg & Control Centre Building - HVAC Layout - Construction Drawing		23	18-Aug-22	14-Sep-22	18-Aug-22 A	19-Oct-23		
P4SABCD H	SAB-HVAC Layout- Construction Drawing Ground Floor	14	18-Aug-22	03-Sep-22	18-Aug-22 A	19-Oct-23	50%	
P4SABCD H	SAB-HVAC Layout- Construction Drawing First Floor	14	18-Aug-22	03-Sep-22	18-Aug-22 A	19-Oct-23	50%	
P4SABCD H	SAB-HVAC Layout- Construction DrawingSecond Floor	14	19-Aug-22	05-Sep-22	19-Aug-22 A	19-Oct-23	50%	
P4SABCD H	SAB-HVAC Layout- Construction Drawing Third Floor	13	30-Aug-22	14-Sep-22	30-Aug-22 A	18-Oct-23	50%	
Shivaji Nagar Admin Bldg & Control Centre Building - Fire Fighting Layout - Construction Drawing		23	22-Sep-22	19-Oct-22	22-Sep-22 A	06-Nov-23		
P4SABCD F	SAB- Fire Fighting Layout- Construction Drawing Ground Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	06-Nov-23	50%	
P4SABCD F	SAB-Fire Fighting Layout- Construction Drawing First Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	06-Nov-23	50%	
P4SABCD F	SAB- Fire Fighting Layout- Construction Drawing Second Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	06-Nov-23	50%	
P4SABCD F	SAB- Fire Fighting Layout- Construction Drawing Third Floor	13	03-Oct-22	19-Oct-22	03-Oct-22 A	06-Nov-23	50%	
Sewri		44	19-Aug-22	11-Oct-22	19-Aug-22 A	08-Nov-23		
P4ADSE1300	Switching Station - Electrical Layout - Construction Drawing - Sewri	14	19-Aug-22	05-Sep-22	19-Aug-22 A	26-Oct-23	50%	
P4ADSE1308	Switching Station - Plumbing Layout - Construction Drawing - Sewri	14	19-Aug-22	05-Sep-22	19-Aug-22 A	26-Oct-23	50%	
P4ADSE1318	Switching Station - Drainage Layout - Construction Drawing - Sewri	14	19-Aug-22	05-Sep-22	19-Aug-22 A	26-Oct-23	50%	
P4ADSE1328	Switching Station - HVAC Layout - Construction Drawing - Sewri	14	19-Aug-22	05-Sep-22	19-Aug-22 A	26-Oct-23	50%	
P4ADSE1338	Switching Station - FF Layout - Construction Drawing - Sewri	14	19-Aug-22	05-Sep-22	19-Aug-22 A	26-Oct-23	50%	
Sewri- Command Control Centre Building - Electrical Layout - Construction Drawing		26	09-Sep-22	11-Oct-22	09-Sep-22 A	08-Nov-23		
P4SCCCDE	SCC-Electrical Layout- Construction Drawing Ground Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%	
P4SCCCDE	SCC-Electrical Layout- Construction Drawing First Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%	
P4SCCCDE	SCC-Electrical Layout- Construction DrawingSecond Floor	14	10-Sep-22	27-Sep-22	10-Sep-22 A	08-Nov-23	50%	
P4SCCCDE	SCC-Electrical Layout- Construction Drawing Third Floor	14	23-Sep-22	11-Oct-22	23-Sep-22 A	08-Nov-23	50%	
Sewri- Command Control Centre Building - Plumbing Layout - Construction Drawing		26	09-Sep-22	11-Oct-22	09-Sep-22 A	08-Nov-23		
P4SCCCDF	SCC-Plumbing Layout- Construction DrawingGround Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%	
P4SCCCDF	SCC-Plumbing Layout- Construction Drawing First Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%	
P4SCCCDF	SCC-Plumbing Layout- Construction Drawing Second Floor	14	10-Sep-22	27-Sep-22	10-Sep-22 A	08-Nov-23	50%	
P4SCCCDF	SCC-Plumbing Layout- Construction Drawing Third Floor	14	23-Sep-22	11-Oct-22	23-Sep-22 A	08-Nov-23	50%	
Sewri- Command Control Centre Building - Drainage Layout - Construction Drawing		26	09-Sep-22	11-Oct-22	09-Sep-22 A	08-Nov-23		
P4SCCCDI	SCC-Drainage Layout- Construction Drawing Ground Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%	
P4SCCCDI	SCC-Drainage Layout- Construction DrawingFirst Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%	
P4SCCCDI	SCC-Drainage Layout- Construction Drawing Second Floor	14	10-Sep-22	27-Sep-22	10-Sep-22 A	08-Nov-23	50%	
P4SCCCDI	SCC-Drainage Layout- Construction Drawing Third Floor	14	23-Sep-22	11-Oct-22	23-Sep-22 A	08-Nov-23	50%	
Sewri- Command Control Centre Building - HVAC Layout - Construction Drawing		25	09-Sep-22	10-Oct-22	09-Sep-22 A	08-Nov-23		
P4SCCCDI	SCC-HVAC Layout- Construction Drawing Ground Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4SCCCD1	SCC-HVAC Layout- Construction Drawing First Floor	14	09-Sep-22	26-Sep-22	09-Sep-22 A	08-Nov-23	50%
P4SCCCD1	SCC-HVAC Layout- Construction Drawing Second Floor	14	10-Sep-22	27-Sep-22	10-Sep-22 A	08-Nov-23	50%
P4SCCCD1	SCC-HVAC Layout- Construction Drawing Third Floor	14	22-Sep-22	10-Oct-22	22-Sep-22 A	08-Nov-23	50%
Sewri- Command Control Centre Building - Fire Fighting Layout - Construction Drawing		16	24-Aug-22	12-Sep-22	24-Aug-22 A	21-Oct-23	
P4SCCCDF	SCC- Fire Fighting Layout- Construction Drawing Ground Floor	14	24-Aug-22	09-Sep-22	24-Aug-22 A	21-Oct-23	50%
P4SCCCDF	SCC- Fire Fighting Layout- Construction Drawing First Floor	14	24-Aug-22	09-Sep-22	24-Aug-22 A	21-Oct-23	50%
P4SCCCDF	SCC- Fire Fighting Layout- Construction Drawing Second Floor	14	25-Aug-22	10-Sep-22	25-Aug-22 A	21-Oct-23	50%
P4SCCCDF	SCC- Fire Fighting Layout- Construction Drawing Third Floor	14	26-Aug-22	12-Sep-22	26-Aug-22 A	21-Oct-23	50%
Miscellaneous Drawings		52	18-Aug-22	19-Oct-22	18-Aug-22 A	30-Nov-23	
P4ADMD1440	High Mast Foundation Details - Construction Drawing - Miscellaneous	21	23-Sep-22	19-Oct-22	23-Sep-22 A	30-Nov-23	50%
P4ADMD1450	CCTV Pole Foundation Details on Crash Barrier - Construction Drawing - Miscellaneous	28	03-Sep-22	07-Oct-22	03-Sep-22 A	17-Oct-23	50%
P4ADMD1460	Light Pole Foundation Details - Construction Drawing - Miscellaneous	28	24-Aug-22	26-Sep-22	24-Aug-22 A	17-Oct-23	50%
P4ADMD1470	Gantry Foundation Details - Construction Drawing - Miscellaneous	28	18-Aug-22	20-Sep-22	18-Aug-22 A	21-Oct-23	50%
P4ADMD1480	Detailed Drawing of Road - Construction Drawing - Miscellaneous	28	18-Aug-22	20-Sep-22	18-Aug-22 A	23-Oct-23	50%
Toll Management System (TMS)		26	12-Sep-22	13-Oct-22	12-Sep-22 A	03-Nov-23	
A1080	Toll Management System Layout - Construction Drawing	26	12-Sep-22	13-Oct-22	12-Sep-22 A	03-Nov-23	50%
Advanced Traffic Management System (ATMS)		25	12-Sep-22	12-Oct-22	12-Sep-22 A	23-Oct-23	
A1090	Advanced Traffic Management System Layout - Construction Drawing	25	12-Sep-22	12-Oct-22	12-Sep-22 A	23-Oct-23	50%
Electrical Bridge		50	18-Aug-22	17-Oct-22	18-Aug-22 A	27-Nov-23	
A1720	Electrical Bridge Laypout With Asthetic Lighting -Construction Drawing	15	28-Sep-22	17-Oct-22	28-Sep-22 A	27-Nov-23	50%
A1770	Design Doc.Aesthetic Lighting	15	18-Aug-22	05-Sep-22	18-Aug-22 A	18-Oct-23	50%
Method Statement		105	20-Jul-22	22-Nov-22	20-Jul-22 A	28-Dec-23	
Civil		97	29-Jul-22	22-Nov-22	29-Jul-22 A	28-Dec-23	
A1780	Geotech Investigation	14	05-Nov-22	22-Nov-22	18-Oct-22 A	02-Nov-22 A	100%
A1790	Topographic Survey Work	14	29-Jul-22	15-Aug-22	29-Jul-22 A	09-Oct-23	50%
A1800	Control Blasting	10	25-Aug-22	06-Sep-22	25-Aug-22 A	22-Oct-23 A	100%
A1810	Earthwork	14	29-Jul-22	15-Aug-22	29-Jul-22 A	10-Jan-23 A	100%
A1820	Formwork Reinforcement & concreting work (For all Structural Work)	14	29-Jul-22	15-Aug-22	29-Jul-22 A	22-Dec-23 A	100%
A1830	Road work	10	25-Aug-22	06-Sep-22	25-Aug-22 A	26-Nov-23 A	100%
A1840	Masonry work	10	03-Sep-22	15-Sep-22	03-Sep-22 A	25-Nov-23 A	100%
A1850	Erection of Scaffolding	14	29-Jul-22	15-Aug-22	29-Jul-22 A	28-Dec-23 A	100%
A1860	Rockfilling Embankment	14	29-Jul-22	15-Aug-22	29-Jul-22 A	10-Jan-23 A	100%
A1870	MS for Cast in Situ bored pile	14	29-Jul-22	15-Aug-22	29-Jul-22 A	24-Jan-23 A	100%
A1880	METHOD STATEMENT FOR PILE LOAD TEST	14	29-Jul-22	15-Aug-22	29-Jul-22 A	07-Oct-23	60%
A1890	Finishing of Structures	14	29-Jul-22	15-Aug-22	29-Jul-22 A	07-Oct-23	60%
A1900	Structural Crack Repair	14	29-Jul-22	15-Aug-22	29-Jul-22 A	01-Feb-23 A	100%
A1910	False Ceiling & False Flooring	14	29-Jul-22	15-Aug-22	29-Jul-22 A	09-Oct-23	50%
A1920	Facade Fixing	14	29-Jul-22	15-Aug-22	29-Jul-22 A	09-Oct-23	50%
A1930	Flooring for Structure	14	29-Jul-22	15-Aug-22	29-Jul-22 A	09-Oct-23	50%
A1940	Water Proofing for terrace	14	29-Jul-22	15-Aug-22	29-Jul-22 A	09-Oct-23	50%
A1950	MS FOR PILE INTEGRITY TEST	14	29-Jul-22	15-Aug-22	29-Jul-22 A	15-Feb-23 A	100%
A1960	M S FOR POLYSULPHIDE SEALANT	18	25-Aug-22	15-Sep-22	25-Aug-22 A	28-Jul-23 A	100%
Mep		54	20-Jul-22	21-Sep-22	20-Jul-22 A	09-Oct-23	
A1978	Method Statement - Cable trays, Cable Laying, Glanding, Termination and Testing.	14	05-Sep-22	21-Sep-22	05-Sep-22 A	09-Oct-23	50%
A1980	Method Statement - of LHDS System	14	24-Aug-22	09-Sep-22	24-Aug-22 A	09-Oct-23	50%
A1990	Splicing Procedure and Testing of OFC	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%
A2000	Method Statement - Earthing & Lightning protection system	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%
A2010	Method Statement - Compact Substations.	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%
A2020	Method Statement - LT Panels and HT Ppanels.	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%
A2030	Method Statement - Indoor & Outdoor Lightening	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
A2040	Method Statement - UPS System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2050	Method Statement - DG Set	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2060	Method Statement - Solar PV Generation Plant	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2070	Method Statement - Building wiring system	14	20-Jul-22	05-Aug-22	20-Jul-22 A	29-Sep-23 A	100%	
A2080	Method Statement - Elevator/Lift	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2090	Method Statement - HVAC System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2100	Method Statement - Fire Detection and Alarm System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2110	Method Statement - Fire-Fighting System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2120	Method Statement - SCADA System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2130	Method Statement - Access Control, PA System, BMS and CCTV System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2140	Method Statement - Building Plumbing System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2150	Method Statement - Toll Management System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
A2160	Method Statement - Advance Traffic Management System	14	20-Jul-22	05-Aug-22	20-Jul-22 A	09-Oct-23	50%	
Installation Test Plan (ITP)		79	10-Feb-23	18-May-23	10-Feb-23 A	20-May-23 A		
First Submission by STRABAG		14	10-Feb-23	28-Feb-23	10-Feb-23 A	28-Feb-23 A		
MMRDA_PG4_11890	ITP (Installation Test Plan) Submission	14	10-Feb-23	28-Feb-23	10-Feb-23 A	28-Feb-23 A	100%	
Review & Comments of GC/MMRDA		15	28-Feb-23	17-Mar-23	28-Feb-23 A	17-Mar-23 A		
MMRDA_PG4_13100	ITP (Installation Test Plan) Review	15	28-Feb-23	17-Mar-23	28-Feb-23 A	17-Mar-23 A	100%	
Resubmission by STRABAG		15	17-Mar-23	04-Apr-23	17-Mar-23 A	04-Apr-23 A		
MMRDA_PG4_14310	ITP (Installation Test Plan) Resubmission	15	17-Mar-23	04-Apr-23	17-Mar-23 A	04-Apr-23 A	100%	
Receipt of NONO from GC/ MMRDA		15	29-Apr-23	18-May-23	29-Apr-23 A	20-May-23 A		
MMRDA_PG4_15520	ITP (Installation Test Plan) NONO	15	29-Apr-23	18-May-23	29-Apr-23 A	20-May-23 A	100%	
Procurement		643	25-Aug-22	19-Jun-23	25-Aug-22 A	06-Jun-24		
Material/Technical Submittals		419	25-Aug-22	28-Dec-22	25-Aug-22 A	12-Feb-24		
Heat, Ventilation and Air Conditioning		339	04-Nov-22	20-Dec-22	04-Nov-22 A	17-Jan-24		
Duct & Insulation		30	04-Nov-22	09-Dec-22	04-Nov-22 A	09-Dec-22 A		
MMRDA_PG4_18730	Duct_Insulation-Submission of Technical Submittal	4	04-Nov-22	09-Nov-22	04-Nov-22 A	09-Nov-22 A	100%	
MMRDA_PG4_18840	Duct_Insulation-Review & Comments from PM	17	09-Nov-22	29-Nov-22	09-Nov-22 A	29-Nov-22 A	100%	
MMRDA_PG4_18950	Duct_Insulation- Incorporation of comments & Resubmission	4	29-Nov-22	03-Dec-22	29-Nov-22 A	03-Dec-22 A	100%	
MMRDA_PG4_19060	Duct_Insulation-Receipt of NONO from PM	6	03-Dec-22	09-Dec-22	03-Dec-22 A	09-Dec-22 A	100%	
Pipe & Insulation		330	15-Nov-22	20-Dec-22	15-Nov-22 A	17-Jan-24		
MMRDA_PG4_19170	Pipe_Insulation-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	15-Dec-23	70%	
MMRDA_PG4_19280	Pipe_Insulation-Review & Comments from PM	17	19-Nov-22	09-Dec-22	15-Dec-23	05-Jan-24	0%	
MMRDA_PG4_19390	Pipe_Insulation- Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	05-Jan-24	10-Jan-24	0%	
MMRDA_PG4_19500	Pipe_Insulation-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	10-Jan-24	17-Jan-24	0%	
VRF, Dx Coil & PAC		30	15-Nov-22	20-Dec-22	15-Nov-22 A	20-Dec-22 A		
MMRDA_PG4_19610	VRF, Dx Coil & PAC Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	19-Nov-22 A	100%	
MMRDA_PG4_19720	VRF, Dx Coil & PAC Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%	
MMRDA_PG4_19830	VRF, Dx Coil & PAC Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%	
MMRDA_PG4_19940	VRF, Dx Coil & PAC Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	14-Dec-22 A	20-Dec-22 A	100%	
Fire Sealant		330	15-Nov-22	20-Dec-22	15-Nov-22 A	17-Jan-24		
MMRDA_PG4_24890	FS-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	15-Dec-23	70%	
MMRDA_PG4_25000	FS-Review & Comments from PM	17	19-Nov-22	09-Dec-22	15-Dec-23	05-Jan-24	0%	
MMRDA_PG4_25110	FS- Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	05-Jan-24	10-Jan-24	0%	
MMRDA_PG4_25220	FS-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	10-Jan-24	17-Jan-24	0%	
Grills & Diffusers		330	15-Nov-22	20-Dec-22	15-Nov-22 A	17-Jan-24		
MMRDA_PG4_25330	GD-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	15-Dec-23	70%	
MMRDA_PG4_25340	GD-Review & Comments from PM	17	19-Nov-22	09-Dec-22	15-Dec-23	05-Jan-24	0%	
MMRDA_PG4_25344	GD- Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	05-Jan-24	10-Jan-24	0%	
MMRDA_PG4_25348	GD-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	10-Jan-24	17-Jan-24	0%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
Exhaust & Ventilation Sysytem		330	15-Nov-22	20-Dec-22	15-Nov-22 A	17-Jan-24	
Ventilation Fans		330	15-Nov-22	20-Dec-22	15-Nov-22 A	17-Jan-24	
MMRDA_PG4_1390	TVF-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	15-Dec-23	70%
MMRDA_PG4_1510	TVF-Review & Comments from PM	17	19-Nov-22	09-Dec-22	15-Dec-23	05-Jan-24	0%
MMRDA_PG4_1630	TVF- Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	05-Jan-24	10-Jan-24	0%
MMRDA_PG4_1750	TVF-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	10-Jan-24	17-Jan-24	0%
Exhaust Fans		330	15-Nov-22	20-Dec-22	15-Nov-22 A	17-Jan-24	
MMRDA_PG4_1870	Exhaust Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	15-Dec-23	70%
MMRDA_PG4_2000	Exhaust Review & Comments from PM	17	19-Nov-22	09-Dec-22	15-Dec-23	05-Jan-24	0%
MMRDA_PG4_2120	Exhaust Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	05-Jan-24	10-Jan-24	0%
MMRDA_PG4_2240	Exhaust Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	10-Jan-24	17-Jan-24	0%
GI Duct		330	15-Nov-22	20-Dec-22	15-Nov-22 A	17-Jan-24	
MMRDA_PG4_3330	GI Duct-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	15-Dec-23	70%
MMRDA_PG4_3450	GI Duct-Review & Comments from PM	17	19-Nov-22	09-Dec-22	15-Dec-23	05-Jan-24	0%
MMRDA_PG4_3570	GI Duct-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	05-Jan-24	10-Jan-24	0%
MMRDA_PG4_3690	GI Duct-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	10-Jan-24	17-Jan-24	0%
Electrical		381	10-Oct-22	27-Dec-22	10-Oct-22 A	12-Feb-24	
Cable Tray		30	15-Nov-22	21-Dec-22	15-Nov-22 A	21-Dec-22 A	
MMRDA_PG4_4780	CT-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	19-Nov-22 A	100%
MMRDA_PG4_4900	CT-Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%
MMRDA_PG4_5020	CT-Incorporation of Comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%
MMRDA_PG4_5140	CT-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	14-Dec-22 A	21-Dec-22 A	100%
Cable		30	15-Nov-22	21-Dec-22	15-Nov-22 A	21-Dec-22 A	
MMRDA_PG4_5260	Cable-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	19-Nov-22 A	100%
MMRDA_PG4_5380	Cable-Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%
MMRDA_PG4_5500	Cable-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%
MMRDA_PG4_5631	Cable-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	14-Dec-22 A	21-Dec-22 A	100%
Conduit		30	12-Nov-22	19-Dec-22	12-Nov-22 A	19-Dec-22 A	
MMRDA_PG4_33370	CD-Submission of Technical Submittal	4	12-Nov-22	17-Nov-22	12-Nov-22 A	17-Nov-22 A	100%
MMRDA_PG4_33380	CD-Review & Comments from PM	17	17-Nov-22	07-Dec-22	17-Nov-22 A	07-Dec-22 A	100%
MMRDA_PG4_33390	CD-Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	07-Dec-22 A	12-Dec-22 A	100%
MMRDA_PG4_33940	CD-Receipt of NONO from PM	6	12-Dec-22	19-Dec-22	12-Dec-22 A	19-Dec-22 A	100%
Distribution Boards		30	18-Nov-22	24-Dec-22	18-Nov-22 A	24-Dec-22 A	
MMRDA_PG4_33410	DB-Submission of Technical Submittal	4	18-Nov-22	23-Nov-22	18-Nov-22 A	23-Nov-22 A	100%
MMRDA_PG4_33420	DB-Review & Comments from PM	17	23-Nov-22	13-Dec-22	23-Nov-22 A	13-Dec-22 A	100%
MMRDA_PG4_33430	DB-Incorporation of comments & Resubmission	4	13-Dec-22	17-Dec-22	13-Dec-22 A	17-Dec-22 A	100%
MMRDA_PG4_33950	DB-Receipt of NONO from PM	6	17-Dec-22	24-Dec-22	17-Dec-22 A	24-Dec-22 A	100%
Feeder Pillars		30	21-Nov-22	27-Dec-22	21-Nov-22 A	27-Dec-22 A	
MMRDA_PG4_33450	Federr Pillars-Submission of Technical Submittal	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%
MMRDA_PG4_33460	Federr Pillars-Review & Comments from PM	17	25-Nov-22	15-Dec-22	25-Nov-22 A	15-Dec-22 A	100%
MMRDA_PG4_33470	Federr Pillars-Incorporation of comments & Resubmission	4	15-Dec-22	20-Dec-22	15-Dec-22 A	20-Dec-22 A	100%
MMRDA_PG4_33960	Federr Pillars-Receipt of NONO from PM	6	20-Dec-22	27-Dec-22	20-Dec-22 A	27-Dec-22 A	100%
UPS		30	15-Nov-22	21-Dec-22	15-Nov-22 A	21-Dec-22 A	
MMRDA_PG4_33490	UPS-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	19-Nov-22 A	100%
MMRDA_PG4_33500	UPS-Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%
MMRDA_PG4_33510	UPS-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%
MMRDA_PG4_33970	UPS-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	14-Dec-22 A	21-Dec-22 A	100%
VFD		30	10-Oct-22	16-Nov-22	10-Oct-22 A	16-Nov-22 A	
MMRDA_PG4_33530	VFD-Submission of Technical Submittal	4	10-Oct-22	14-Oct-22	10-Oct-22 A	14-Oct-22 A	100%
MMRDA_PG4_33540	VFD-Review & Comments from PM	17	14-Oct-22	04-Nov-22	14-Oct-22 A	04-Nov-22 A	100%
MMRDA_PG4_33550	VFD-Incorporation of comments & Resubmission	4	04-Nov-22	09-Nov-22	04-Nov-22 A	09-Nov-22 A	100%



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MMRDA_PG4_33980	VFD-Receipt of NONO from PM	6	09-Nov-22	16-Nov-22	09-Nov-22 A	16-Nov-22 A	100%
Inverter & Batteries		30	15-Nov-22	21-Dec-22	15-Nov-22 A	21-Dec-22 A	
MMRDA_PG4_33570	IAB-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	19-Nov-22 A	100%
MMRDA_PG4_33580	IAB-Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%
MMRDA_PG4_33590	IAB-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%
MMRDA_PG4_33990	IAB-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	14-Dec-22 A	21-Dec-22 A	100%
Solar Panel		30	15-Nov-22	21-Dec-22	06-Jan-24	12-Feb-24	
MMRDA_PG4_33610	Solar Panel-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	06-Jan-24	10-Jan-24	0%
MMRDA_PG4_33620	Solar Panel-Review & Comments from PM	17	19-Nov-22	09-Dec-22	11-Jan-24	31-Jan-24	0%
MMRDA_PG4_33630	Solar Panel-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	31-Jan-24	05-Feb-24	0%
MMRDA_PG4_34000	Solar Panel-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	05-Feb-24	12-Feb-24	0%
BMS System		349	16-Nov-22	22-Dec-22	16-Nov-22 A	10-Feb-24	
MMRDA_PG4_33650	BMS-Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	16-Nov-22 A	09-Jan-24	50%
MMRDA_PG4_33660	BMS-Review & Comments from PM	17	21-Nov-22	10-Dec-22	10-Jan-24	30-Jan-24	0%
MMRDA_PG4_33670	BMS-Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	30-Jan-24	03-Feb-24	0%
MMRDA_PG4_34010	BMS-Receipt of NONO from PM	6	15-Dec-22	22-Dec-22	03-Feb-24	10-Feb-24	0%
Elevator		30	19-Nov-22	26-Dec-22	19-Nov-22 A	26-Dec-22 A	
MMRDA_PG4_33690	Elevator-Submission of Technical Submittal	4	19-Nov-22	24-Nov-22	19-Nov-22 A	22-Nov-22 A	100%
MMRDA_PG4_33700	Elevator-Review & Comments from PM	17	24-Nov-22	14-Dec-22	24-Nov-22 A	14-Dec-22 A	100%
MMRDA_PG4_33710	Elevator-Incorporation of comments & Resubmission	4	14-Dec-22	19-Dec-22	14-Dec-22 A	19-Dec-22 A	100%
MMRDA_PG4_34020	Elevator-Receipt of NONO from PM	6	19-Dec-22	26-Dec-22	19-Dec-22 A	26-Dec-22 A	100%
Public Address System		349	17-Nov-22	23-Dec-22	17-Nov-22 A	12-Feb-24	
MMRDA_PG4_33730	PAS-Submission of Technical Submittal	4	17-Nov-22	22-Nov-22	17-Nov-22 A	10-Jan-24	50%
MMRDA_PG4_33740	PAS-Review & Comments from PM	17	22-Nov-22	12-Dec-22	11-Jan-24	31-Jan-24	0%
MMRDA_PG4_33750	PAS-Incorporation of comments & Resubmission	4	12-Dec-22	16-Dec-22	31-Jan-24	05-Feb-24	0%
MMRDA_PG4_34030	PAS-Receipt of NONO from PM	6	16-Dec-22	23-Dec-22	05-Feb-24	12-Feb-24	0%
Diesel Generator		30	17-Nov-22	23-Dec-22	17-Nov-22 A	23-Dec-22 A	
MMRDA_PG4_33770	DG-Submission of Technical Submittal	4	17-Nov-22	22-Nov-22	17-Nov-22 A	22-Nov-22 A	100%
MMRDA_PG4_33780	DG-Review & Comments from PM	17	22-Nov-22	12-Dec-22	22-Nov-22 A	12-Dec-22 A	100%
MMRDA_PG4_33790	DG-Incorporation of comments & Resubmission	4	12-Dec-22	16-Dec-22	12-Dec-22 A	16-Dec-22 A	100%
MMRDA_PG4_34040	DG-Receipt of NONO from PM	6	16-Dec-22	23-Dec-22	16-Dec-22 A	23-Dec-22 A	100%
Electrical Panels		30	18-Nov-22	24-Dec-22	18-Nov-22 A	24-Dec-22 A	
MMRDA_PG4_5750	Electrical Panels-Submission of Technical Submittal	4	18-Nov-22	23-Nov-22	18-Nov-22 A	23-Nov-22 A	100%
MMRDA_PG4_5870	Electrical Panels-Review & Comments from PM	17	23-Nov-22	13-Dec-22	23-Nov-22 A	13-Dec-22 A	100%
MMRDA_PG4_5990	Electrical Panels-Incorporation of comments & Resubmission	4	13-Dec-22	17-Dec-22	13-Dec-22 A	17-Dec-22 A	100%
MMRDA_PG4_6111	Electrical Panels-Receipt of NONO from PM	6	17-Dec-22	24-Dec-22	17-Dec-22 A	24-Dec-22 A	100%
Earthing Strips		343	14-Nov-22	19-Dec-22	14-Nov-22 A	01-Feb-24	
MMRDA_PG4_6230	Earthing Strips-Submission of Technical Submittal	4	14-Nov-22	18-Nov-22	14-Nov-22 A	01-Jan-24	50%
MMRDA_PG4_6350	Earthing Strips-Review & Comments from PM	17	18-Nov-22	08-Dec-22	01-Jan-24	20-Jan-24	0%
MMRDA_PG4_6470	Earthing Strips-Incorporation of comments & Resubmission	4	08-Dec-22	13-Dec-22	20-Jan-24	25-Jan-24	0%
MMRDA_PG4_6591	Earthing Strips-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	25-Jan-24	01-Feb-24	0%
Earthing Cable		349	15-Nov-22	21-Dec-22	15-Nov-22 A	09-Feb-24	
MMRDA_PG4_33810	Earthing Cable-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	08-Jan-24	50%
MMRDA_PG4_33820	Earthing Cable-Review & Comments from PM	17	19-Nov-22	09-Dec-22	09-Jan-24	29-Jan-24	0%
MMRDA_PG4_33830	Earthing Cable-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	29-Jan-24	02-Feb-24	0%
MMRDA_PG4_34070	Earthing Cable-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	02-Feb-24	09-Feb-24	0%
Earthing Electrode		349	15-Nov-22	21-Dec-22	15-Nov-22 A	09-Feb-24	
MMRDA_PG4_33850	Earthing Electrode-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	08-Jan-24	50%
MMRDA_PG4_33860	Earthing Electrode-Review & Comments from PM	17	19-Nov-22	09-Dec-22	09-Jan-24	29-Jan-24	0%
MMRDA_PG4_33870	Earthing Electrode-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	29-Jan-24	02-Feb-24	0%
MMRDA_PG4_34080	Earthing Electrode-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	02-Feb-24	09-Feb-24	0%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
Lighting Arrester Materials		30	15-Nov-22	21-Dec-22	15-Nov-22 A	21-Dec-22 A		
MMRDA_PG4_33890	Lighting Arrester-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	19-Nov-22 A	100%	
MMRDA_PG4_33900	Lighting Arrester-Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%	
MMRDA_PG4_33910	Lighting Arrester-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%	
MMRDA_PG4_34090	Lighting Arrester-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	14-Dec-22 A	21-Dec-22 A	100%	
Building Monitoring System		345	15-Nov-22	21-Dec-22	15-Nov-22 A	05-Feb-24		
MMRDA_PG4_7200	CMS-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	04-Jan-24	70%	
MMRDA_PG4_7320	CMS-Review & Comments from PM	17	19-Nov-22	09-Dec-22	04-Jan-24	23-Jan-24	0%	
MMRDA_PG4_7440	CMS-Incorporation of comments & Resubmission	4	09-Dec-22	14-Dec-22	24-Jan-24	29-Jan-24	0%	
MMRDA_PG4_7560	CMS-Receipt of NONO from PM	6	14-Dec-22	21-Dec-22	30-Jan-24	05-Feb-24	0%	
Civil		32	25-Aug-22	01-Oct-22	25-Aug-22 A	01-Oct-22 A		
Cement		21	25-Aug-22	19-Sep-22	25-Aug-22 A	19-Sep-22 A		
MMRDA_PG4_7000	C-Submission of Technical Submittal	4	25-Aug-22	30-Aug-22	25-Aug-22 A	30-Aug-22 A	100%	
MMRDA_PG4_7010	C-Review & Comments from PM	17	30-Aug-22	19-Sep-22	30-Aug-22 A	19-Sep-22 A	100%	
MMRDA_PG4_7020	C-Incorporation of Comments & Resubmission	4	01-Sep-22	06-Sep-22	01-Sep-22 A	06-Sep-22 A	100%	
MMRDA_PG4_7030	C-Receipt of NONO from PM	6	01-Sep-22	07-Sep-22	01-Sep-22 A	07-Sep-22 A	100%	
Sand		23	25-Aug-22	21-Sep-22	25-Aug-22 A	21-Sep-22 A		
MMRDA_PG4_25350	S-Submission of Lab Test Re	4	25-Aug-22	30-Aug-22	25-Aug-22 A	30-Aug-22 A	100%	
MMRDA_PG4_25370	S-Review & Comments from PM	17	01-Sep-22	21-Sep-22	01-Sep-22 A	21-Sep-22 A	100%	
MMRDA_PG4_25390	S-Incorporation of Comments & Resubmission	4	01-Sep-22	06-Sep-22	01-Sep-22 A	06-Sep-22 A	100%	
MMRDA_PG4_25410	S-Receipt of NONO from PM	6	01-Sep-22	08-Sep-22	01-Sep-22 A	08-Sep-22 A	100%	
Aggregate		30	26-Aug-22	01-Oct-22	26-Aug-22 A	01-Oct-22 A		
MMRDA_PG4_25430	A-Submission of Lab Test Report	4	26-Aug-22	31-Aug-22	26-Aug-22 A	31-Aug-22 A	100%	
MMRDA_PG4_25450	A-Review & Comments from PM	17	31-Aug-22	20-Sep-22	31-Aug-22 A	20-Sep-22 A	100%	
MMRDA_PG4_25470	A-Incorporation of Comments & Resubmission	4	20-Sep-22	24-Sep-22	20-Sep-22 A	24-Sep-22 A	100%	
MMRDA_PG4_25490	A-Receipt of NONO from PM	6	24-Sep-22	01-Oct-22	24-Sep-22 A	01-Oct-22 A	100%	
Steel		21	30-Aug-22	23-Sep-22	30-Aug-22 A	23-Sep-22 A		
MMRDA_PG4_25510	S-Submission of Technical Submittal	4	30-Aug-22	03-Sep-22	30-Aug-22 A	03-Sep-22 A	100%	
MMRDA_PG4_25530	S-Review & Comments from PM	17	03-Sep-22	23-Sep-22	03-Sep-22 A	23-Sep-22 A	100%	
MMRDA_PG4_25550	S-Incorporation of Comments & Resubmission	4	03-Sep-22	08-Sep-22	03-Sep-22 A	08-Sep-22 A	100%	
MMRDA_PG4_25570	S-Receipt of NONO from PM	6	03-Sep-22	09-Sep-22	03-Sep-22 A	09-Sep-22 A	100%	
Electrical Bridge		341	16-Nov-22	24-Dec-22	16-Nov-22 A	01-Feb-24		
Compact Sub Station		30	19-Nov-22	24-Dec-22	19-Nov-22 A	24-Dec-22 A		
MMRDA_PG4_34230	Compact Sub Station - Submission of Technical Submittal	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_34240	Compact Sub Station -Review & Comments from PM	17	24-Nov-22	14-Dec-22	24-Nov-22 A	14-Dec-22 A	100%	
MMRDA_PG4_34250	Compact Sub Station -Incorporation of comments & Resubmission	4	14-Dec-22	19-Dec-22	14-Dec-22 A	19-Dec-22 A	100%	
MMRDA_PG4_34260	Compact Sub Station -Receipt of NONO from PM	6	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%	
HV Cables		30	16-Nov-22	21-Dec-22	16-Nov-22 A	21-Dec-22 A		
MMRDA_PG4_34270	HV- Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	16-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_34280	HV- -Review & Comments from PM	17	21-Nov-22	10-Dec-22	21-Nov-22 A	10-Dec-22 A	100%	
MMRDA_PG4_34290	HV-Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	10-Dec-22 A	15-Dec-22 A	100%	
MMRDA_PG4_34300	HV- -Receipt of NONO from PM	6	15-Dec-22	21-Dec-22	15-Dec-22 A	21-Dec-22 A	100%	
Street Light Fixtures		30	16-Nov-22	21-Dec-22	16-Nov-22 A	21-Dec-22 A		
MMRDA_PG4_34310	Street Light Fixtures- Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	16-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_34320	Street Light Fixtures-Review & Comments from PM	17	21-Nov-22	10-Dec-22	21-Nov-22 A	10-Dec-22 A	100%	
MMRDA_PG4_34330	Street Light Fixtures -Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	10-Dec-22 A	15-Dec-22 A	100%	
MMRDA_PG4_34340	Street Light Fixtures -Receipt of NONO from PM	6	15-Dec-22	21-Dec-22	15-Dec-22 A	21-Dec-22 A	100%	
Street Light Poles/High Mast		30	16-Nov-22	21-Dec-22	16-Nov-22 A	21-Dec-22 A		
MMRDA_PG4_34350	Street Light Poles - Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	16-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_34360	Street Light Poles -Review & Comments from PM	17	21-Nov-22	10-Dec-22	21-Nov-22 A	10-Dec-22 A	100%	
MMRDA_PG4_34370	Street Light Poles -Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	10-Dec-22 A	15-Dec-22 A	100%	



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
MMRDA_PG4_34380	Street Light Poles Receipt of NONO from PM	6	15-Dec-22	21-Dec-22	15-Dec-22 A	21-Dec-22 A	100%	
Box Girder Light Fixture		30	16-Nov-22	21-Dec-22	16-Nov-22 A	21-Dec-22 A		
MMRDA_PG4_34390	Box Girder Light Fixture- Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	16-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_34400	Box Girder Light Fixture- Review & Comments from PM	17	21-Nov-22	10-Dec-22	21-Nov-22 A	10-Dec-22 A	100%	
MMRDA_PG4_34410	Box Girder Light Fixture- Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	10-Dec-22 A	15-Dec-22 A	100%	
MMRDA_PG4_34420	Box Girder Light Fixture-Receipt of NONO from PM	6	15-Dec-22	21-Dec-22	15-Dec-22 A	21-Dec-22 A	100%	
CCMS		30	16-Nov-22	21-Dec-22	16-Nov-22 A	21-Dec-22 A		
MMRDA_PG4_34430	CCMS- Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	16-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_34440	CCMS-Review & Comments from PM	17	21-Nov-22	10-Dec-22	21-Nov-22 A	10-Dec-22 A	100%	
MMRDA_PG4_34450	CCMS-Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	10-Dec-22 A	15-Dec-22 A	100%	
MMRDA_PG4_34460	CCMS-Receipt of NONO from PM	6	15-Dec-22	21-Dec-22	15-Dec-22 A	21-Dec-22 A	100%	
SCADA control System		339	16-Nov-22	21-Dec-22	16-Nov-22 A	30-Jan-24		
MMRDA_PG4_34470	SCADA - Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	16-Nov-22 A	29-Dec-23	50%	
MMRDA_PG4_34480	SCADA-Review & Comments from PM	17	21-Nov-22	10-Dec-22	29-Dec-23	18-Jan-24	0%	
MMRDA_PG4_34490	SCADA -Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	18-Jan-24	23-Jan-24	0%	
MMRDA_PG4_34500	SCADA-Receipt of NONO from PM	6	15-Dec-22	21-Dec-22	23-Jan-24	30-Jan-24	0%	
Aesthetic lighting		30	16-Nov-22	21-Dec-22	27-Dec-23	01-Feb-24		
MMRDA_PG4_34510	Aesthetic- Submission of Technical Submittal	4	16-Nov-22	21-Nov-22	27-Dec-23	01-Jan-24	0%	
MMRDA_PG4_34520	Aesthetic-Review & Comments from PM	17	21-Nov-22	10-Dec-22	01-Jan-24	20-Jan-24	0%	
MMRDA_PG4_34530	Aesthetic-Incorporation of comments & Resubmission	4	10-Dec-22	15-Dec-22	20-Jan-24	25-Jan-24	0%	
MMRDA_PG4_34540	Aesthetic-Receipt of NONO from PM	6	15-Dec-22	21-Dec-22	25-Jan-24	01-Feb-24	0%	
Plumbing & Fire Fighting System		348	01-Nov-22	28-Dec-22	01-Nov-22 A	23-Jan-24		
Sanitary Fittings		30	15-Nov-22	20-Dec-22	15-Nov-22 A	20-Dec-22 A		
MMRDA_PG4_25750	SF-Submission of Technical Submittal	4	15-Nov-22	19-Nov-22	15-Nov-22 A	19-Nov-22 A	100%	
MMRDA_PG4_25770	SF-Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%	
MMRDA_PG4_25790	SF-Incorporation of Comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%	
MMRDA_PG4_25810	SF-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	14-Dec-22 A	20-Dec-22 A	100%	
LHDS System		38	14-Nov-22	28-Dec-22	14-Nov-22 A	28-Dec-22 A		
MMRDA_PG4_34119	LHDS-Submission of Technical Submittal	4	14-Nov-22	18-Nov-22	14-Nov-22 A	18-Nov-22 A	100%	
MMRDA_PG4_34120	LHDS-Review & Comments from PM	17	24-Nov-22	14-Dec-22	24-Nov-22 A	14-Dec-22 A	100%	
MMRDA_PG4_34130	LHDS-Incorporation of Comments & Resubmission	4	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%	
MMRDA_PG4_34140	LHDS-Receipt of NONO from PM	6	22-Dec-22	28-Dec-22	22-Dec-22 A	28-Dec-22 A	100%	
Fire Alarm System		35	09-Nov-22	20-Dec-22	09-Nov-22 A	20-Dec-22 A		
MMRDA_PG4_34150	Fire Alarm-Submission of Technical Submittal	4	09-Nov-22	14-Nov-22	09-Nov-22 A	14-Nov-22 A	100%	
MMRDA_PG4_34160	Fire Alarm-Review & Comments from PM	17	19-Nov-22	09-Dec-22	19-Nov-22 A	09-Dec-22 A	100%	
MMRDA_PG4_34170	Fire Alarm-Incorporation of Comments & Resubmission	4	09-Dec-22	14-Dec-22	09-Dec-22 A	14-Dec-22 A	100%	
MMRDA_PG4_34180	Fire Alarm-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	14-Dec-22 A	20-Dec-22 A	100%	
Pipes		30	01-Nov-22	06-Dec-22	01-Nov-22 A	06-Dec-22 A		
MMRDA_PG4_25670	P-Submission of Technical Submittal	4	01-Nov-22	05-Nov-22	01-Nov-22 A	05-Nov-22 A	100%	
MMRDA_PG4_25690	P-Review & Comments from PM	17	05-Nov-22	25-Nov-22	05-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_25710	P-Incorporation of Comments & Resubmission	4	25-Nov-22	30-Nov-22	25-Nov-22 A	30-Nov-22 A	100%	
MMRDA_PG4_25730	P-Receipt of NONO from PM	6	30-Nov-22	06-Dec-22	30-Nov-22 A	06-Dec-22 A	100%	
Plumbing Accessories		342	08-Nov-22	19-Dec-22	08-Nov-22 A	23-Jan-24		
MMRDA_PG4_25590	PA-Submission of Technical Submittal	4	08-Nov-22	12-Nov-22	08-Nov-22 A	16-Dec-23	50%	
MMRDA_PG4_25610	PA-Review & Comments from PM	17	18-Nov-22	08-Dec-22	22-Dec-23	12-Jan-24	0%	
MMRDA_PG4_25630	PA-Incorporation of Comments & Resubmission	4	08-Dec-22	13-Dec-22	12-Jan-24	17-Jan-24	0%	
MMRDA_PG4_25650	PA-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	17-Jan-24	23-Jan-24	0%	
Plumbing pump		342	08-Nov-22	19-Dec-22	08-Nov-22 A	23-Jan-24		
MMRDA_PG4_34190	Plumbing Pump-Submission of Technical Submittal	4	08-Nov-22	12-Nov-22	08-Nov-22 A	16-Dec-23	50%	
MMRDA_PG4_34200	Plumbing Pump-Review & Comments from PM	17	18-Nov-22	08-Dec-22	22-Dec-23	12-Jan-24	0%	
MMRDA_PG4_34210	Plumbing Pump-Incorporation of Comments & Resubmission	4	08-Dec-22	13-Dec-22	12-Jan-24	17-Jan-24	0%	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_34220	Plumbing Pump-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	17-Jan-24	23-Jan-24	0%
TMS - Toll Management Sysstem		57	13-Oct-22	20-Dec-22	04-Nov-23	15-Jan-24	
Conduit/Cable Tray - TMS		36	07-Nov-22	19-Dec-22	01-Dec-23	13-Jan-24	
MMRDA_PG4_26100	Cable Tray-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
MMRDA_PG4_26110	Cable Tray-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
MMRDA_PG4_26120	Cable Tray- Incorporation of comments & Resubmission	5	07-Dec-22	13-Dec-22	01-Jan-24	06-Jan-24	0%
MMRDA_PG4_26130	Cable Tray-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	06-Jan-24	13-Jan-24	0%
Cables - TMS		37	07-Nov-22	20-Dec-22	01-Dec-23	15-Jan-24	
MMRDA_PG4_26140	Cables-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
MMRDA_PG4_26150	Cables-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
MMRDA_PG4_26160	Cables- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
MMRDA_PG4_26170	Cables-Receipt of NONO from PM	6	14-Dec-22	20-Dec-22	08-Jan-24	15-Jan-24	0%
Poles - TMS		30	13-Oct-22	18-Nov-22	04-Nov-23	13-Dec-23	
MMRDA_PG4_26180	Poles-Submission of Technical Submittal	4	13-Oct-22	18-Oct-22	04-Nov-23	08-Nov-23	0%
MMRDA_PG4_26190	Poles-Review & Comments from PM	17	18-Oct-22	08-Nov-22	09-Nov-23	01-Dec-23	0%
MMRDA_PG4_26200	Poles- Incorporation of comments & Resubmission	4	08-Nov-22	12-Nov-22	01-Dec-23	06-Dec-23	0%
MMRDA_PG4_26210	Poles-Receipt of NONO from PM	6	12-Nov-22	18-Nov-22	06-Dec-23	13-Dec-23	0%
Sensors - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
MMRDA_PG4_26220	Sensors-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
MMRDA_PG4_26230	Sensors-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
MMRDA_PG4_26240	Sensors- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
MMRDA_PG4_26250	Sensors-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Cameras - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
MMRDA_PG4_26260	Cameras-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
MMRDA_PG4_26270	Cameras-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
MMRDA_PG4_26280	Cameras- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
MMRDA_PG4_26290	Cameras-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Racks & Servers - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
MMRDA_PG4_26340	R&S-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
MMRDA_PG4_26350	R&S-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
MMRDA_PG4_26360	R&S- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
MMRDA_PG4_26370	R&S-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Toll Lane Controller - Kiosk Type - TDC, Printer, Bar Code Reader, Panic Switch etc - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28090	Toll Lane Controller-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28100	Toll Lane Controller Tray-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28110	Toll Lane Controller- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28120	Toll Lane Controller-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Fake note detector - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28190	Fake note detector-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28200	Fake note detector-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28210	Fake note detector- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28220	Fake note detector-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Integrated cash drawer - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28230	Integrated cash drawer-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28240	Integrated cash drawer-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28250	Integrated cash drawer- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28260	Integrated cash drawer-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Handheld RFID Reader - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28270	Handheld RFID Reader-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28280	Handheld RFID Reader-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28290	Handheld RFID Reader- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
ZMRDA_PG4_28300	Handheld RFID Reader-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Credit / Debit card reader - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28310	Credit / debit card reader-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28320	Credit / debit card reader-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28330	Credit / debit card reader- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28340	Credit / debit card reader-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Toll booth camera - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28350	Toll booth camera-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28360	Toll booth camera-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28370	Toll booth camera- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28380	Toll booth camera-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
RFID antenna & reader - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28390	Toll Lane Controller-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28400	Toll Lane Controller Tray-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28410	Toll Lane Controller- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28420	Toll Lane Controller-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28470	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28480	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28490	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28500	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Automatic lane barrier - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28510	Automatic lane barrier - Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28520	Automatic lane barrier-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28530	Automatic lane barrier- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28540	Automatic lane barrier- Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Amber siren beacon - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28550	Amber siren beacon-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28560	Amber siren beacon-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28570	Amber siren beacon - Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28580	Amber siren beacon-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Incident Capture System Camera - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28590	Incident Capture System Camera-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28600	Incident Capture System Camera-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28610	Incident Capture System Camera- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28620	Incident Capture System Camera-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Additional Cameras for ANPR - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28630	Additional Cameras for ANPR -Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28640	Additional Cameras for ANPR-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28650	Additional Cameras for ANPR- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28660	Additional Cameras for ANPR- Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Lane Monitoring camera - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28670	Lane Monitoring camera-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28680	Lane Monitoring camera-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28690	Lane Monitoring camera- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28700	Lane Monitoring camera - Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
Manual lane barrier - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28710	Manual lane barrier-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28720	Manual lane barrier-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28730	Manual lane barrier- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28740	Manual lane barrier-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
Automatic vehicle classifier - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_28750	Automatic vehicle classifier-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28760	Automatic vehicle classifier-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_28770	Automatic vehicle classifier- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_28780	Automatic vehicle classifier-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
MS-Weight in Motion System (WIM) - TMS		36	07-Nov-22	19-Dec-22	01-Dec-23	13-Jan-24	
ZMRDA_PG4_28790	MS-Weight in Motion System (WIM)-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28800	MS-Weight in Motion System (WIM)-Review & Comments from PM	17	18-Nov-22	08-Dec-22	13-Dec-23	02-Jan-24	0%
ZMRDA_PG4_28810	MS-Weight in Motion System (WIM)- Incorporation of comments & Resubmission	4	08-Dec-22	13-Dec-22	02-Jan-24	06-Jan-24	0%
ZMRDA_PG4_28820	MS-Weight in Motion System (WIM)-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	06-Jan-24	13-Jan-24	0%
Weigh bridge including weight display and associated Hardware Equipments - TMS		36	07-Nov-22	19-Dec-22	01-Dec-23	13-Jan-24	
ZMRDA_PG4_28830	Weigh bridge including weight display and associated Hardware Equipments -Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28840	Weigh bridge including weight display and associated Hardware Equipments -Review & Comments from PM	17	18-Nov-22	08-Dec-22	13-Dec-23	02-Jan-24	0%
ZMRDA_PG4_28850	Weigh bridge including weight display and associated Hardware Equipments - Incorporation of comments & Resubmission	4	08-Dec-22	13-Dec-22	02-Jan-24	06-Jan-24	0%
ZMRDA_PG4_28860	Weigh bridge including weight display and associated Hardware Equipments -Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	06-Jan-24	13-Jan-24	0%
TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer - TMS		36	07-Nov-22	19-Dec-22	01-Dec-23	13-Jan-24	
ZMRDA_PG4_28870	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28880	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Review & Comments from PM	17	18-Nov-22	08-Dec-22	13-Dec-23	02-Jan-24	0%
ZMRDA_PG4_28890	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device- Incorporation of comments & Resubmission	4	08-Dec-22	13-Dec-22	02-Jan-24	06-Jan-24	0%
ZMRDA_PG4_28900	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	06-Jan-24	13-Jan-24	0%
TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer		36	07-Nov-22	19-Dec-22	01-Dec-23	13-Jan-24	
ZMRDA_PG4_28910	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28920	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Review & Comments from PM	17	18-Nov-22	08-Dec-22	13-Dec-23	02-Jan-24	0%
ZMRDA_PG4_28930	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device- Incorporation of comments & Resubmission	4	08-Dec-22	13-Dec-22	02-Jan-24	06-Jan-24	0%
ZMRDA_PG4_28940	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	06-Jan-24	13-Jan-24	0%
Prefabricated Cables - TMS		36	07-Nov-22	19-Dec-22	01-Dec-23	13-Jan-24	
ZMRDA_PG4_28950	Prefabricated Cables-Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_28960	Prefabricated Cables-Review & Comments from PM	17	18-Nov-22	08-Dec-22	13-Dec-23	02-Jan-24	0%
ZMRDA_PG4_28970	Prefabricated Cables- Incorporation of comments & Resubmission	4	08-Dec-22	13-Dec-22	02-Jan-24	06-Jan-24	0%
ZMRDA_PG4_28980	Prefabricated Cables-Receipt of NONO from PM	6	13-Dec-22	19-Dec-22	06-Jan-24	13-Jan-24	0%
Hardware & Accessories - TMS		35	07-Nov-22	17-Dec-22	01-Dec-23	12-Jan-24	
ZMRDA_PG4_29030	Hardware & Accessories -Submission of Technical Submittal	4	07-Nov-22	11-Nov-22	01-Dec-23	05-Dec-23	0%
ZMRDA_PG4_29040	Hardware & Accessories-Review & Comments from PM	17	17-Nov-22	07-Dec-22	12-Dec-23	01-Jan-24	0%
ZMRDA_PG4_29050	Hardware & Accessories- Incorporation of comments & Resubmission	4	07-Dec-22	12-Dec-22	01-Jan-24	05-Jan-24	0%
ZMRDA_PG4_29060	Hardware & Accessories-Receipt of NONO from PM	6	12-Dec-22	17-Dec-22	05-Jan-24	12-Jan-24	0%
ATMS - Advanced Traffic Management System		32	26-Oct-22	02-Dec-22	26-Oct-22 A	02-Dec-22 A	
Conduit/Cable Tray - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A	
MMRDA_PG4_26380	Cable Tray-Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%
MMRDA_PG4_26390	Cable Tray-Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%
MMRDA_PG4_26400	Cable Tray- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%
MMRDA_PG4_26410	Cable Tray-Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%
Cables - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A	
MMRDA_PG4_26420	Cables-Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%
MMRDA_PG4_26430	Cables-Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%
MMRDA_PG4_26440	Cables- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%
MMRDA_PG4_26450	Cables-Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%
Poles - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A	
MMRDA_PG4_26460	Poles-Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%
MMRDA_PG4_26470	Poles-Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%
MMRDA_PG4_26480	Poles- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%
MMRDA_PG4_26490	Poles-Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
Sensors - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		
MMRDA_PG4_26500	Sensors-Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_26510	Sensors-Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_26520	Sensors- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_26530	Sensors-Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
Cameras - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_26540	Cameras-Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_26550	Cameras-Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_26560	Cameras- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_26570	Cameras-Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Racks & Servers - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		
MMRDA_PG4_26620	R&S-Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_26630	R&S-Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_26640	R&S- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_26650	R&S-Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
Control Centre Equipments i. e. Servers, Storage Devices, Workstations, Printers etc - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30270	Control Centre Equipments-Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30280	Command Centre Equipments-Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30290	Command Centre Equipments- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30300	Command Centre Equipments-Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Emergency Call Box System - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		
MMRDA_PG4_30310	Emergency Call Box-Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_30320	Emergency Call Box- Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_30330	Emergency Call Box- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_30340	Emergency Call BoxEmergency Call Box- Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
Closed Circuit Television (CCTV) for traffic Surveillance - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30350	CCTV for traffic surveillance -Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30360	CCTV for traffic surveillance - Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30370	CCTV for traffic surveillance - Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30380	CCTV for traffic surveillance - Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Closed Circuit Television (CCTV) for Security under bridge - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30390	CCTV for Security under bridge- Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30400	CCTV for Security under bridge- Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30410	CCTV for Security under bridge- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30420	CCTV for Security under bridge- Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Video Incident Detection System - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		
MMRDA_PG4_30430	Video Incident Detection System- Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_30440	Video Incident Detection System- Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_30450	Video Incident Detection System- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_30460	Video Incident Detection System- Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
ATCC System - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30470	ATCC System- Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30480	ATCC System- Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30490	ATCC System- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30500	ATCC System- Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Meteorological Data System (MDS) - ATMS		30	28-Oct-22	02-Dec-22	28-Oct-22 A	02-Dec-22 A		
MMRDA_PG4_30510	Meteorological Data System- Submission of Technical Submittal	4	28-Oct-22	02-Nov-22	28-Oct-22 A	02-Nov-22 A	100%	
MMRDA_PG4_30520	Meteorological Data System- Review & Comments from PM	17	02-Nov-22	22-Nov-22	02-Nov-22 A	22-Nov-22 A	100%	
MMRDA_PG4_30530	Meteorological Data System- Incorporation of comments & Resubmission	4	22-Nov-22	26-Nov-22	22-Nov-22 A	26-Nov-22 A	100%	
MMRDA_PG4_30540	Meteorological Data System- Receipt of NONO from PM	6	26-Nov-22	02-Dec-22	26-Nov-22 A	02-Dec-22 A	100%	
Variable message sign (VMS) - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
MMRDA_PG4_30550	Variable message sign- Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_30560	Variable message sign- Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_30570	Variable message sign- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_30580	Variable message sign- Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
Vehicle Actuated Speed Warning System (VASS) - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30590	Vehicle Actuated Speed Warning System- Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30600	Vehicle Actuated Speed Warning System-Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30610	Vehicle Actuated Speed Warning System- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30620	Vehicle Actuated Speed Warning System-Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Mobile Radio Communication system (MRCS) - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30630	Mobile Radio Communication system- Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30640	Mobile Radio Communication system- Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30650	Mobile Radio Communication system- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30660	Mobile Radio Communication system- Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Data Communication System - Network Racks, Networking Switches & Cabling and Accessories - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30670	Data Communication System- Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30680	Data Communication System- Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30690	Data Communication System- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30700	Data Communication System- Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Optic fibre Cable System - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		
MMRDA_PG4_30710	Optic fibre cable system- Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_30720	Optic fibre cable system- Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_30730	Optic fibre cable system- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_30740	Optic fibre cable system- Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
CCTV Poles, Nut & Bolts - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30750	CCTV poles, Nuts & Bolts- Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30760	CCTV poles, Nuts & Bolts-Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30770	CCTV poles, Nuts & Bolts-Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30780	CCTV poles, Nuts & Bolts-Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
Cables, Installation hardware & Accessories - ATMS		30	27-Oct-22	01-Dec-22	27-Oct-22 A	01-Dec-22 A		
MMRDA_PG4_30790	Cables, installation hardware & Accessories- Submission of Technical Submittal	4	27-Oct-22	01-Nov-22	27-Oct-22 A	01-Nov-22 A	100%	
MMRDA_PG4_30800	Cables, installation hardware & Accessories- Review & Comments from PM	17	01-Nov-22	21-Nov-22	01-Nov-22 A	21-Nov-22 A	100%	
MMRDA_PG4_30810	Cables, installation hardware & Accessories- Incorporation of comments & Resubmission	4	21-Nov-22	25-Nov-22	21-Nov-22 A	25-Nov-22 A	100%	
MMRDA_PG4_30820	Cables, installation hardware & Accessories- Receipt of NONO from PM	6	25-Nov-22	01-Dec-22	25-Nov-22 A	01-Dec-22 A	100%	
VMS Gantry - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		
MMRDA_PG4_30830	VMS Gantry- Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_30840	VMS Gantry- Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_30850	VMS Gantry- Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_30860	VMS Gantry- Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
Software Licences i. e. Sevrer, OS, Third Party Softwares etc - ATMS		30	26-Oct-22	30-Nov-22	26-Oct-22 A	30-Nov-22 A		
MMRDA_PG4_30870	Software licenses- Submission of Technical Submittal	4	26-Oct-22	31-Oct-22	26-Oct-22 A	31-Oct-22 A	100%	
MMRDA_PG4_30880	Software licenses-Review & Comments from PM	17	31-Oct-22	19-Nov-22	31-Oct-22 A	19-Nov-22 A	100%	
MMRDA_PG4_30890	Software licenses-Incorporation of comments & Resubmission	4	19-Nov-22	24-Nov-22	19-Nov-22 A	24-Nov-22 A	100%	
MMRDA_PG4_30900	Software licenses-Receipt of NONO from PM	6	24-Nov-22	30-Nov-22	24-Nov-22 A	30-Nov-22 A	100%	
Manufacturing & Manufacturing Testing		532	16-Nov-22	05-Jun-23	30-Nov-22 A	04-Jun-24		
Airconditioning		410	07-Dec-22	03-Apr-23	07-Dec-22 A	06-Feb-24		
Duct & Insulation		79	07-Dec-22	27-Feb-23	07-Dec-22 A	07-Dec-23		
Ordering		5	07-Dec-22	12-Dec-22	07-Dec-22 A	12-Dec-22 A		
MMRDA_PG4_9E	Duct_Insulation- Release of PO	5	07-Dec-22	12-Dec-22	07-Dec-22 A	12-Dec-22 A	100%	
Manufacturing		58	12-Dec-22	09-Feb-23	12-Dec-22 A	09-Feb-23 A		
MMRDA_PG4_9E	Duct_Insulation-Manufacturing process 1	30	12-Dec-22	11-Jan-23	12-Dec-22 A	11-Jan-23 A	100%	

Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_99	Duct_Insulation-Manufacturing process 2	26	11-Jan-23	07-Feb-23	11-Jan-23 A	07-Feb-23 A	100%
MMRDA_PG4_99	Duct_Insulation-Issuance of MC	2	07-Feb-23	09-Feb-23	07-Feb-23 A	09-Feb-23 A	100%
Manufacturing Testing & Dispatch		18	09-Feb-23	27-Feb-23	09-Feb-23 A	07-Dec-23	
MMRDA_PG4_99	Duct_Insulation-FAT	1	09-Feb-23	10-Feb-23	09-Feb-23 A	10-Feb-23 A	100%
MMRDA_PG4_99	Duct_Insulation-Submission of FAT report & request for Dispatch Clearance	3	10-Feb-23	13-Feb-23	10-Feb-23 A	13-Feb-23 A	100%
MMRDA_PG4_99	Duct_Insulation- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	13-Feb-23	27-Feb-23	13-Feb-23 A	07-Dec-23	50%
Pipe & Insulation		104	20-Dec-22	03-Apr-23	20-Dec-22 A	03-Apr-23 A	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_99	Pipe_Insulation- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		80	25-Dec-22	15-Mar-23	25-Dec-22 A	15-Mar-23 A	
MMRDA_PG4_99	Pipe_Insulation-Issuance of MC	5	25-Dec-22	30-Dec-22	25-Dec-22 A	30-Dec-22 A	100%
MMRDA_PG4_99	Pipe_Insulation-Manufacturing process	75	30-Dec-22	15-Mar-23	30-Dec-22 A	15-Mar-23 A	100%
Manufacturing Testing & Dispatch		19	15-Mar-23	03-Apr-23	15-Mar-23 A	03-Apr-23 A	
MMRDA_PG4_99	Pipe_Insulation-FAT	5	15-Mar-23	20-Mar-23	15-Mar-23 A	20-Mar-23 A	100%
MMRDA_PG4_99	Pipe_Insulation-Submission of FAT report & request for Dispatch Clearance	3	20-Mar-23	23-Mar-23	20-Mar-23 A	23-Mar-23 A	100%
MMRDA_PG4_99	Pipe_Insulation- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	20-Mar-23	03-Apr-23	20-Mar-23 A	03-Apr-23 A	100%
Fire Sealent		98	20-Dec-22	28-Mar-23	20-Dec-22 A	28-Mar-23 A	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_10	FS- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		93	25-Dec-22	28-Mar-23	25-Dec-22 A	28-Mar-23 A	
MMRDA_PG4_10	FS-Issuance of MC	5	25-Dec-22	30-Dec-22	25-Dec-22 A	30-Dec-22 A	100%
MMRDA_PG4_10	FS-Manufacturing process	88	30-Dec-22	28-Mar-23	30-Dec-22 A	28-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	30-Dec-22	23-Jan-23	30-Dec-22 A	23-Jan-23 A	
MMRDA_PG4_10	FS-FAT	5	30-Dec-22	04-Jan-23	30-Dec-22 A	04-Jan-23 A	100%
MMRDA_PG4_10	FS-Submission of FAT report & request for Dispatch Clearance	5	04-Jan-23	09-Jan-23	04-Jan-23 A	09-Jan-23 A	100%
MMRDA_PG4_10	FS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	09-Jan-23	23-Jan-23	09-Jan-23 A	23-Jan-23 A	100%
Grills & Diffusers		413	20-Dec-22	24-Mar-23	20-Dec-22 A	06-Feb-24	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_10	GD- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		65	25-Dec-22	28-Feb-23	25-Dec-22 A	28-Feb-23 A	
MMRDA_PG4_10	GD-Issuance of MC	5	25-Dec-22	30-Dec-22	25-Dec-22 A	30-Dec-22 A	100%
MMRDA_PG4_10	GD-Manufacturing process	60	30-Dec-22	28-Feb-23	30-Dec-22 A	28-Feb-23 A	100%
Manufacturing Testing & Dispatch		343	28-Feb-23	24-Mar-23	28-Feb-23 A	06-Feb-24	
MMRDA_PG4_10	GD-FAT	5	28-Feb-23	05-Mar-23	28-Feb-23 A	18-Jan-24	70%
MMRDA_PG4_10	GD-Submission of FAT report & request for Dispatch Clearance	5	05-Mar-23	10-Mar-23	18-Jan-24	23-Jan-24	0%
MMRDA_PG4_10	GD- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	10-Mar-23	24-Mar-23	23-Jan-24	06-Feb-24	0%
Ventilation Sysytem		109	20-Dec-22	08-Apr-23	20-Dec-22 A	23-Jan-24	
Ventilation Fans		64	20-Dec-22	22-Feb-23	20-Dec-22 A	23-Jan-24	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_10	Vent Fans- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		35	25-Dec-22	29-Jan-23	25-Dec-22 A	29-Jan-23 A	
MMRDA_PG4_10	Vent Fans-Issuance of MC	5	25-Dec-22	30-Dec-22	25-Dec-22 A	30-Dec-22 A	100%
MMRDA_PG4_10	Vent Fans-Manufacturing process	30	30-Dec-22	29-Jan-23	30-Dec-22 A	29-Jan-23 A	100%
Manufacturing Testing & Dispatch		24	29-Jan-23	22-Feb-23	29-Jan-23 A	23-Jan-24	
MMRDA_PG4_10	Vent Fans-FAT	5	29-Jan-23	03-Feb-23	29-Jan-23 A	03-Feb-23 A	100%
MMRDA_PG4_10	Vent Fans-Submission of FAT report & request for Dispatch Clearance	5	03-Feb-23	08-Feb-23	03-Feb-23 A	08-Feb-23 A	100%
MMRDA_PG4_10	Vent Fans- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	08-Feb-23	22-Feb-23	08-Feb-23 A	23-Jan-24	50%
Exhaust Fans		79	20-Dec-22	09-Mar-23	20-Dec-22 A	23-Jan-24	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_11	Exhaust Fans- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		50	25-Dec-22	13-Feb-23	25-Dec-22 A	13-Feb-23 A	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_11	Exhaust Fans-Issuance of MC	5	25-Dec-22	30-Dec-22	25-Dec-22 A	30-Dec-22 A	100%
MMRDA_PG4_11	Exhaust Fans-Manufacturing process	45	30-Dec-22	13-Feb-23	30-Dec-22 A	13-Feb-23 A	100%
Manufacturing Testing & Dispatch		24	13-Feb-23	09-Mar-23	13-Feb-23 A	23-Jan-24	
MMRDA_PG4_11	Exhaust Fans-FAT	5	13-Feb-23	18-Feb-23	13-Feb-23 A	18-Feb-23 A	100%
MMRDA_PG4_11	Exhaust Fans-Submission of FAT report & request for Dispatch Clearance	5	18-Feb-23	23-Feb-23	18-Feb-23 A	23-Feb-23 A	100%
MMRDA_PG4_11	Exhaust Fans- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	23-Feb-23	09-Mar-23	23-Feb-23 A	23-Jan-24	50%
GI Duct		79	20-Dec-22	09-Mar-23	20-Dec-22 A	23-Jan-24	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_34	GI Duct- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		50	25-Dec-22	13-Feb-23	25-Dec-22 A	13-Feb-23 A	
MMRDA_PG4_34	GI Duct-Issuance of MC	5	25-Dec-22	30-Dec-22	25-Dec-22 A	30-Dec-22 A	100%
MMRDA_PG4_34	GI Duct-Manufacturing process	45	30-Dec-22	13-Feb-23	30-Dec-22 A	13-Feb-23 A	100%
Manufacturing Testing & Dispatch		24	13-Feb-23	09-Mar-23	13-Feb-23 A	23-Jan-24	
MMRDA_PG4_34	GI Duct-FAT	5	13-Feb-23	18-Feb-23	13-Feb-23 A	18-Feb-23 A	100%
MMRDA_PG4_34	GI Duct Submission of FAT report & request for Dispatch Clearance	5	18-Feb-23	23-Feb-23	18-Feb-23 A	23-Feb-23 A	100%
MMRDA_PG4_34	GI Duct- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	23-Feb-23	09-Mar-23	23-Feb-23 A	23-Jan-24	50%
VRF, Dx Coil & PAC		109	20-Dec-22	08-Apr-23	20-Dec-22 A	21-Dec-23	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_34	VRF,Dx coil & Pac- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		80	25-Dec-22	15-Mar-23	25-Dec-22 A	15-Mar-23 A	
MMRDA_PG4_34	VRF,Dx coil & Pac-Issuance of MC	5	25-Dec-22	30-Dec-22	25-Dec-22 A	30-Dec-22 A	100%
MMRDA_PG4_34	VRF,Dx coil & Pac-Manufacturing process	75	30-Dec-22	15-Mar-23	30-Dec-22 A	15-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	15-Mar-23	08-Apr-23	15-Mar-23 A	21-Dec-23	
MMRDA_PG4_34	VRF,Dx coil & Pac-FAT	5	15-Mar-23	20-Mar-23	15-Mar-23 A	20-Mar-23 A	100%
MMRDA_PG4_34	VRF,Dx coil & Pac Submission of FAT report & request for Dispatch Clearance	5	20-Mar-23	25-Mar-23	20-Mar-23 A	25-Mar-23 A	100%
MMRDA_PG4_34	VRF,Dx coil & Pac Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	25-Mar-23	08-Apr-23	25-Mar-23 A	21-Dec-23	50%
Electrical		525	16-Nov-22	08-Apr-23	19-Dec-22 A	26-May-24	
Cable Tray		101	21-Dec-22	01-Apr-23	21-Dec-22 A	01-Apr-23 A	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_11	CT- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		72	26-Dec-22	08-Mar-23	26-Dec-22 A	08-Mar-23 A	
MMRDA_PG4_11	CT-Issuance of MC	2	26-Dec-22	28-Dec-22	26-Dec-22 A	28-Dec-22 A	100%
MMRDA_PG4_11	CT-Manufacturing process	10	26-Feb-23	08-Mar-23	26-Feb-23 A	08-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	08-Mar-23	01-Apr-23	08-Mar-23 A	01-Apr-23 A	
MMRDA_PG4_11	CT-FAT	5	08-Mar-23	13-Mar-23	08-Mar-23 A	13-Mar-23 A	100%
MMRDA_PG4_11	CT-Submission of FAT report & request for Dispatch Clearance	5	13-Mar-23	18-Mar-23	13-Mar-23 A	18-Mar-23 A	100%
MMRDA_PG4_11	CT- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	18-Mar-23	01-Apr-23	18-Mar-23 A	01-Apr-23 A	100%
Cable		104	21-Dec-22	04-Apr-23	21-Dec-22 A	04-Apr-23 A	
Manufacturing		75	26-Dec-22	11-Mar-23	26-Dec-22 A	11-Mar-23 A	
MMRDA_PG4_11	Cable-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_11	Cable-Manufacturing process	10	01-Mar-23	11-Mar-23	01-Mar-23 A	11-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	11-Mar-23	04-Apr-23	11-Mar-23 A	04-Apr-23 A	
MMRDA_PG4_11	Cable-FAT	5	11-Mar-23	16-Mar-23	11-Mar-23 A	16-Mar-23 A	100%
MMRDA_PG4_11	Cable-Submission of FAT report & request for Dispatch Clearance	5	16-Mar-23	21-Mar-23	16-Mar-23 A	21-Mar-23 A	100%
MMRDA_PG4_11	Cable- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	21-Mar-23	04-Apr-23	21-Mar-23 A	04-Apr-23 A	100%
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_34	Cable- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Electrical Panels		104	24-Dec-22	07-Apr-23	24-Dec-22 A	07-Apr-23 A	
Ordering		5	24-Dec-22	29-Dec-22	24-Dec-22 A	29-Dec-22 A	
MMRDA_PG4_11	Panels- Release of PO	5	24-Dec-22	29-Dec-22	24-Dec-22 A	29-Dec-22 A	100%
Manufacturing		75	29-Dec-22	14-Mar-23	29-Dec-22 A	14-Mar-23 A	

Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_11	Panels-Issuance of MC	5	29-Dec-22	03-Jan-23	29-Dec-22 A	03-Jan-23 A	100%
MMRDA_PG4_11	Panels-Manufacturing process	10	04-Mar-23	14-Mar-23	04-Mar-23 A	14-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	14-Mar-23	07-Apr-23	14-Mar-23 A	07-Apr-23 A	
MMRDA_PG4_11	Panels-FAT	5	14-Mar-23	19-Mar-23	14-Mar-23 A	19-Mar-23 A	100%
MMRDA_PG4_11	Panels-Submission of FAT report & request for Dispatch Clearance	5	19-Mar-23	24-Mar-23	19-Mar-23 A	24-Mar-23 A	100%
MMRDA_PG4_11	Panels- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	24-Mar-23	07-Apr-23	24-Mar-23 A	07-Apr-23 A	100%
Earthing Strips		468	11-Jan-23	05-Apr-23	11-Jan-23 A	23-Apr-24	
Ordering		10	11-Jan-23	21-Jan-23	11-Jan-23 A	21-Jan-23 A	
MMRDA_PG4_11	Earthing- Release of PO	10	11-Jan-23	21-Jan-23	11-Jan-23 A	21-Jan-23 A	100%
Manufacturing		424	31-Jan-23	12-Mar-23	31-Jan-23 A	30-Mar-24	
MMRDA_PG4_11	Earthing-Issuance of MC	10	31-Jan-23	10-Feb-23	31-Jan-23 A	29-Feb-24	50%
MMRDA_PG4_11	Earthing-Manufacturing process	10	02-Mar-23	12-Mar-23	20-Mar-24	30-Mar-24	0%
Manufacturing Testing & Dispatch		24	12-Mar-23	05-Apr-23	30-Mar-24	23-Apr-24	
MMRDA_PG4_11	Earthing-FAT	5	12-Mar-23	17-Mar-23	30-Mar-24	04-Apr-24	0%
MMRDA_PG4_11	Earthing-Submission of FAT report & request for Dispatch Clearance	5	17-Mar-23	22-Mar-23	04-Apr-24	09-Apr-24	0%
MMRDA_PG4_11	Earthing- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	22-Mar-23	05-Apr-23	09-Apr-24	23-Apr-24	0%
Earthing Cable		514	21-Dec-22	04-Apr-23	21-Dec-22 A	18-May-24	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_32	Earthing- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		485	26-Dec-22	11-Mar-23	26-Dec-22 A	24-Apr-24	
MMRDA_PG4_32	Earthing-Issuance of MC	10	26-Dec-22	05-Jan-23	26-Dec-22 A	19-Feb-24	0%
MMRDA_PG4_32	Earthing-Manufacturing process	10	01-Mar-23	11-Mar-23	14-Apr-24	24-Apr-24	0%
Manufacturing Testing & Dispatch		24	11-Mar-23	04-Apr-23	24-Apr-24	18-May-24	
MMRDA_PG4_32	Earthing-FAT	5	11-Mar-23	16-Mar-23	24-Apr-24	29-Apr-24	0%
MMRDA_PG4_32	Earthing-Submission of FAT report & request for Dispatch Clearance	5	16-Mar-23	21-Mar-23	29-Apr-24	04-May-24	0%
MMRDA_PG4_32	Earthing- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	21-Mar-23	04-Apr-23	04-May-24	18-May-24	0%
Earthing Electrode		509	21-Dec-22	27-Mar-23	21-Dec-22 A	13-May-24	
Ordering		2	21-Dec-22	23-Dec-22	21-Dec-22 A	16-Apr-23 A	
MMRDA_PG4_32	Earthing-Electrode Release of PO	2	21-Dec-22	23-Dec-22	21-Dec-22 A	16-Apr-23 A	100%
Manufacturing		483	23-Dec-22	03-Mar-23	23-Dec-22 A	19-Apr-24	
MMRDA_PG4_32	Earthing-Electrode-Issuance of MC	10	23-Dec-22	02-Jan-23	23-Dec-22 A	19-Feb-24	0%
MMRDA_PG4_32	Earthing-Electrode-Manufacturing process	10	21-Feb-23	03-Mar-23	09-Apr-24	19-Apr-24	0%
Manufacturing Testing & Dispatch		24	03-Mar-23	27-Mar-23	19-Apr-24	13-May-24	
MMRDA_PG4_32	Earthing-Electrode-FAT	5	03-Mar-23	08-Mar-23	19-Apr-24	24-Apr-24	0%
MMRDA_PG4_32	Earthing-Electrode-Submission of FAT report & request for Dispatch Clearance	5	08-Mar-23	13-Mar-23	24-Apr-24	29-Apr-24	0%
MMRDA_PG4_32	Earthing-Electrode- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	13-Mar-23	27-Mar-23	29-Apr-24	13-May-24	0%
Lighting Arrester Material		101	21-Dec-22	01-Apr-23	21-Dec-22 A	01-Apr-23 A	
Ordering		2	21-Dec-22	23-Dec-22	21-Dec-22 A	23-Dec-22 A	
MMRDA_PG4_32	Lighting Arrester of PO	2	21-Dec-22	23-Dec-22	21-Dec-22 A	23-Dec-22 A	100%
Manufacturing		75	23-Dec-22	08-Mar-23	23-Dec-22 A	08-Mar-23 A	
MMRDA_PG4_32	Lighting Arrester-Issuance of MC	30	23-Dec-22	22-Jan-23	23-Dec-22 A	22-Jan-23 A	100%
MMRDA_PG4_32	Lighting Arrester Manufacturing process	15	21-Feb-23	08-Mar-23	21-Feb-23 A	08-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	08-Mar-23	01-Apr-23	08-Mar-23 A	01-Apr-23 A	
MMRDA_PG4_32	Lighting Arrester FAT	5	08-Mar-23	13-Mar-23	08-Mar-23 A	13-Mar-23 A	100%
MMRDA_PG4_32	Lighting Arrester-Submission of FAT report & request for Dispatch Clearance	5	13-Mar-23	18-Mar-23	13-Mar-23 A	18-Mar-23 A	100%
MMRDA_PG4_32	Lighting Arrester- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	18-Mar-23	01-Apr-23	18-Mar-23 A	01-Apr-23 A	100%
VFDs		121	16-Nov-22	17-Mar-23	01-Dec-23	30-Mar-24	
Ordering		2	16-Nov-22	18-Nov-22	01-Dec-23	02-Dec-23	
MMRDA_PG4_11	VFD- Release of PO	2	16-Nov-22	18-Nov-22	01-Dec-23	02-Dec-23	0%
Manufacturing		95	18-Nov-22	21-Feb-23	03-Dec-23	06-Mar-24	
MMRDA_PG4_11	VFD-Issuance of MC	5	18-Nov-22	23-Nov-22	03-Dec-23	07-Dec-23	0%



MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_11	VFD-Manufacturing process	10	11-Feb-23	21-Feb-23	26-Feb-24	06-Mar-24	0%
	Manufacturing Testing & Dispatch	24	21-Feb-23	17-Mar-23	07-Mar-24	30-Mar-24	
MMRDA_PG4_11	VFD-FAT	5	21-Feb-23	26-Feb-23	07-Mar-24	11-Mar-24	0%
MMRDA_PG4_11	VFD-Submission of FAT report & request for Dispatch Clearance	5	26-Feb-23	03-Mar-23	12-Mar-24	16-Mar-24	0%
MMRDA_PG4_11	VFD- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	03-Mar-23	17-Mar-23	17-Mar-24	30-Mar-24	0%
	Conduit	87	19-Dec-22	16-Mar-23	19-Dec-22 A	16-Mar-23 A	
	Ordering	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	
MMRDA_PG4_32	CD- Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
	Manufacturing	58	24-Dec-22	20-Feb-23	24-Dec-22 A	20-Feb-23 A	
MMRDA_PG4_32	CD-Issuance of MC	2	24-Dec-22	26-Dec-22	24-Dec-22 A	26-Dec-22 A	100%
MMRDA_PG4_32	CD-Manufacturing process	16	04-Feb-23	20-Feb-23	04-Feb-23 A	20-Feb-23 A	100%
	Manufacturing Testing & Dispatch	24	20-Feb-23	16-Mar-23	20-Feb-23 A	16-Mar-23 A	
MMRDA_PG4_32	CD-FAT	5	20-Feb-23	25-Feb-23	20-Feb-23 A	25-Feb-23 A	100%
MMRDA_PG4_32	CD-Submission of FAT report & request for Dispatch Clearance	5	25-Feb-23	02-Mar-23	25-Feb-23 A	02-Mar-23 A	100%
MMRDA_PG4_32	CD- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	02-Mar-23	16-Mar-23	02-Mar-23 A	16-Mar-23 A	100%
	Distribution Boards	91	24-Dec-22	25-Mar-23	24-Dec-22 A	23-Jan-24	
	Ordering	5	24-Dec-22	29-Dec-22	24-Dec-22 A	29-Dec-22 A	
MMRDA_PG4_32	DB- Release of PO	5	24-Dec-22	29-Dec-22	24-Dec-22 A	29-Dec-22 A	100%
	Manufacturing	62	29-Dec-22	01-Mar-23	29-Dec-22 A	01-Mar-23 A	
MMRDA_PG4_32	DB-Issuance of MC	2	29-Dec-22	31-Dec-22	29-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_32	DB-Manufacturing process	10	19-Feb-23	01-Mar-23	19-Feb-23 A	01-Mar-23 A	100%
	Manufacturing Testing & Dispatch	24	01-Mar-23	25-Mar-23	01-Mar-23 A	23-Jan-24	
MMRDA_PG4_32	DB-FAT	5	01-Mar-23	06-Mar-23	01-Mar-23 A	06-Mar-23 A	100%
MMRDA_PG4_32	DB-Submission of FAT report & request for Dispatch Clearance	5	06-Mar-23	11-Mar-23	06-Mar-23 A	11-Mar-23 A	100%
MMRDA_PG4_32	DB- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	11-Mar-23	25-Mar-23	11-Mar-23 A	23-Jan-24	0%
	Feeder Pillars	96	27-Dec-22	02-Apr-23	27-Dec-22 A	18-Jan-24	
	Ordering	5	27-Dec-22	01-Jan-23	27-Dec-22 A	01-Jan-23 A	
MMRDA_PG4_32	FP- Release of PO	5	27-Dec-22	01-Jan-23	27-Dec-22 A	01-Jan-23 A	100%
	Manufacturing	67	01-Jan-23	09-Mar-23	01-Jan-23 A	09-Mar-23 A	
MMRDA_PG4_32	FP-Issuance of MC	2	01-Jan-23	03-Jan-23	01-Jan-23 A	03-Jan-23 A	100%
MMRDA_PG4_32	FP-Manufacturing process	10	27-Feb-23	09-Mar-23	27-Feb-23 A	09-Mar-23 A	100%
	Manufacturing Testing & Dispatch	24	09-Mar-23	02-Apr-23	09-Mar-23 A	18-Jan-24	
MMRDA_PG4_32	FP-FAT	5	09-Mar-23	14-Mar-23	09-Mar-23 A	14-Mar-23 A	100%
MMRDA_PG4_32	FP-Submission of FAT report & request for Dispatch Clearance	5	14-Mar-23	19-Mar-23	14-Mar-23 A	19-Mar-23 A	100%
MMRDA_PG4_32	FP- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	19-Mar-23	02-Apr-23	19-Mar-23 A	18-Jan-24	50%
	UPS	106	21-Dec-22	06-Apr-23	21-Dec-22 A	12-Jan-24	
	Ordering	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_32	UPS- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
	Manufacturing	77	26-Dec-22	13-Mar-23	26-Dec-22 A	13-Mar-23 A	
MMRDA_PG4_32	UPS-Issuance of MC	2	26-Dec-22	28-Dec-22	26-Dec-22 A	28-Dec-22 A	100%
MMRDA_PG4_32	UPS-Manufacturing process	10	03-Mar-23	13-Mar-23	03-Mar-23 A	13-Mar-23 A	100%
	Manufacturing Testing & Dispatch	24	13-Mar-23	06-Apr-23	13-Mar-23 A	12-Jan-24	
MMRDA_PG4_32	UPS-FAT	5	13-Mar-23	18-Mar-23	13-Mar-23 A	18-Mar-23 A	100%
MMRDA_PG4_32	UPS-Submission of FAT report & request for Dispatch Clearance	5	18-Mar-23	23-Mar-23	18-Mar-23 A	23-Mar-23 A	100%
MMRDA_PG4_33	UPS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	23-Mar-23	06-Apr-23	23-Mar-23 A	12-Jan-24	50%
	Inverter And Batteries	186	21-Dec-22	06-Apr-23	21-Dec-22 A	12-Jan-24	
	Ordering	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_33	IAB-Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
	Manufacturing	77	26-Dec-22	13-Mar-23	26-Dec-22 A	13-Mar-23 A	
MMRDA_PG4_33	IAB-Issuance of MC	2	26-Dec-22	28-Dec-22	26-Dec-22 A	28-Dec-22 A	100%
MMRDA_PG4_33	IAB-Manufacturing process	10	03-Mar-23	13-Mar-23	03-Mar-23 A	13-Mar-23 A	100%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
Manufacturing Testing & Dispatch		24	13-Mar-23	06-Apr-23	13-Mar-23 A	12-Jan-24		
MMRDA_PG4_33	IAB-FAT	5	13-Mar-23	18-Mar-23	13-Mar-23 A	18-Mar-23 A	100%	
MMRDA_PG4_33	IAB-Submission of FAT report & request for Dispatch Clearance	5	18-Mar-23	23-Mar-23	18-Mar-23 A	23-Mar-23 A	100%	
MMRDA_PG4_33	IAB-Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	23-Mar-23	06-Apr-23	23-Mar-23 A	12-Jan-24	50%	
Solar Panel		105	21-Dec-22	04-Apr-23	12-Feb-24	26-May-24		
Ordering		5	21-Dec-22	26-Dec-22	12-Feb-24	17-Feb-24		
MMRDA_PG4_33	Solar Panel-Release of PO	5	21-Dec-22	26-Dec-22	12-Feb-24	17-Feb-24	0%	
Manufacturing		77	26-Dec-22	13-Mar-23	17-Feb-24	04-May-24		
MMRDA_PG4_33	Solar Panel-Issuance of MC	2	26-Dec-22	28-Dec-22	17-Feb-24	19-Feb-24	0%	
MMRDA_PG4_33	Solar Panel-Manufacturing process	20	21-Feb-23	13-Mar-23	14-Apr-24	04-May-24	0%	
Manufacturing Testing & Dispatch		23	13-Mar-23	04-Apr-23	04-May-24	26-May-24		
MMRDA_PG4_33	Solar Panel-FAT	5	13-Mar-23	18-Mar-23	04-May-24	09-May-24	0%	
MMRDA_PG4_33	Solar Panel-Submission of FAT report & request for Dispatch Clearance	5	18-Mar-23	23-Mar-23	09-May-24	14-May-24	0%	
MMRDA_PG4_33	Solar Panel- Receipt of NONO for FAT report & issuance of Dispatch Clearance	13	23-Mar-23	04-Apr-23	14-May-24	26-May-24	0%	
BMS System		101	22-Dec-22	02-Apr-23	22-Dec-22 A	20-Feb-24		
Ordering		5	22-Dec-22	27-Dec-22	22-Dec-22 A	27-Dec-22 A		
MMRDA_PG4_33	BMS- Release of PO	5	22-Dec-22	27-Dec-22	22-Dec-22 A	27-Dec-22 A	100%	
Manufacturing		72	27-Dec-22	09-Mar-23	27-Dec-22 A	09-Mar-23 A		
MMRDA_PG4_33	BMS-Issuance of MC	2	27-Dec-22	29-Dec-22	27-Dec-22 A	29-Dec-22 A	100%	
MMRDA_PG4_33	BMS-Manufacturing process	30	07-Feb-23	09-Mar-23	07-Feb-23 A	09-Mar-23 A	100%	
Manufacturing Testing & Dispatch		24	09-Mar-23	02-Apr-23	09-Mar-23 A	20-Feb-24		
MMRDA_PG4_33	BMS-FAT	5	09-Mar-23	14-Mar-23	09-Mar-23 A	14-Mar-23 A	100%	
MMRDA_PG4_33	BMS-Submission of FAT report & request for Dispatch Clearance	5	14-Mar-23	19-Mar-23	14-Mar-23 A	19-Mar-23 A	100%	
MMRDA_PG4_33	BMS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	19-Mar-23	02-Apr-23	19-Mar-23 A	20-Feb-24	30%	
Elevator		102	26-Dec-22	07-Apr-23	26-Dec-22 A	19-Jan-24		
Ordering		5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A		
MMRDA_PG4_33	Elevator- Release of PO	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%	
Manufacturing		73	31-Dec-22	14-Mar-23	31-Dec-22 A	14-Mar-23 A		
MMRDA_PG4_33	Elevator-Issuance of MC	2	31-Dec-22	02-Jan-23	31-Dec-22 A	02-Jan-23 A	100%	
MMRDA_PG4_33	Elevator- Manufacturing process	20	22-Feb-23	14-Mar-23	22-Feb-23 A	14-Mar-23 A	100%	
Manufacturing Testing & Dispatch		24	14-Mar-23	07-Apr-23	14-Mar-23 A	19-Jan-24		
MMRDA_PG4_33	Elevator-FAT	5	14-Mar-23	19-Mar-23	14-Mar-23 A	19-Mar-23 A	100%	
MMRDA_PG4_33	Elevator-Submission of FAT report & request for Dispatch Clearance	5	19-Mar-23	24-Mar-23	19-Mar-23 A	24-Mar-23 A	100%	
MMRDA_PG4_33	Elevator- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	24-Mar-23	07-Apr-23	24-Mar-23 A	19-Jan-24	40%	
Public Address System		101	23-Dec-22	03-Apr-23	12-Feb-24	23-May-24		
Ordering		5	23-Dec-22	28-Dec-22	12-Feb-24	17-Feb-24		
MMRDA_PG4_33	PAS-Release of PO	5	23-Dec-22	28-Dec-22	12-Feb-24	17-Feb-24	0%	
Manufacturing		72	28-Dec-22	10-Mar-23	17-Feb-24	29-Apr-24		
MMRDA_PG4_33	PAS-Issuance of MC	2	28-Dec-22	30-Dec-22	17-Feb-24	19-Feb-24	0%	
MMRDA_PG4_33	PAS-Manufacturing process	30	08-Feb-23	10-Mar-23	30-Mar-24	29-Apr-24	0%	
Manufacturing Testing & Dispatch		24	10-Mar-23	03-Apr-23	29-Apr-24	23-May-24		
MMRDA_PG4_33	PAS-FAT	5	10-Mar-23	15-Mar-23	29-Apr-24	04-May-24	0%	
MMRDA_PG4_33	PAS-Submission of FAT report & request for Dispatch Clearance	5	15-Mar-23	20-Mar-23	04-May-24	09-May-24	0%	
MMRDA_PG4_33	PAS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	20-Mar-23	03-Apr-23	09-May-24	23-May-24	0%	
Diesel Generator		106	23-Dec-22	08-Apr-23	23-Dec-22 A	08-Apr-23 A		
Ordering		5	23-Dec-22	28-Dec-22	23-Dec-22 A	28-Dec-22 A		
MMRDA_PG4_33	DG- Release of PO	5	23-Dec-22	28-Dec-22	23-Dec-22 A	28-Dec-22 A	100%	
Manufacturing		77	28-Dec-22	15-Mar-23	28-Dec-22 A	15-Mar-23 A		
MMRDA_PG4_33	DG-Issuance of MC	2	28-Dec-22	30-Dec-22	28-Dec-22 A	30-Dec-22 A	100%	
MMRDA_PG4_33	DG-Manufacturing process	30	13-Feb-23	15-Mar-23	13-Feb-23 A	15-Mar-23 A	100%	
Manufacturing Testing & Dispatch		24	15-Mar-23	08-Apr-23	15-Mar-23 A	08-Apr-23 A		



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_33	DG-FAT	5	15-Mar-23	20-Mar-23	15-Mar-23 A	20-Mar-23 A	100%
MMRDA_PG4_33	DG-Submission of FAT report & request for Dispatch Clearance	5	20-Mar-23	25-Mar-23	20-Mar-23 A	25-Mar-23 A	100%
MMRDA_PG4_33	DG- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	25-Mar-23	08-Apr-23	25-Mar-23 A	08-Apr-23 A	100%
Plumbing & Fire Fighting System		140	06-Dec-22	25-Apr-23	06-Dec-22 A	25-Apr-23 A	
Sanitary Fittings		121	20-Dec-22	20-Apr-23	20-Dec-22 A	20-Apr-23 A	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_27	SF- Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		92	25-Dec-22	27-Mar-23	25-Dec-22 A	27-Mar-23 A	
MMRDA_PG4_27	SF-Issuance of MC	2	25-Dec-22	27-Dec-22	25-Dec-22 A	27-Dec-22 A	100%
MMRDA_PG4_27	SF-Manufacturing process	10	17-Mar-23	27-Mar-23	17-Mar-23 A	27-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	27-Mar-23	20-Apr-23	27-Mar-23 A	20-Apr-23 A	
MMRDA_PG4_27	SF-FAT	5	27-Mar-23	01-Apr-23	27-Mar-23 A	01-Apr-23 A	100%
MMRDA_PG4_27	SF-Submission of FAT report & request for Dispatch Clearance	5	01-Apr-23	06-Apr-23	01-Apr-23 A	06-Apr-23 A	100%
MMRDA_PG4_27	SF- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	06-Apr-23	20-Apr-23	06-Apr-23 A	20-Apr-23 A	100%
Pipes		90	06-Dec-22	06-Mar-23	06-Dec-22 A	06-Mar-23 A	
Ordering		5	06-Dec-22	11-Dec-22	06-Dec-22 A	11-Dec-22 A	
MMRDA_PG4_27	Pipes- Release of PO	5	06-Dec-22	11-Dec-22	06-Dec-22 A	11-Dec-22 A	100%
Manufacturing		61	11-Dec-22	10-Feb-23	11-Dec-22 A	10-Feb-23 A	
MMRDA_PG4_27	Pipes-Issuance of MC	5	11-Dec-22	16-Dec-22	11-Dec-22 A	16-Dec-22 A	100%
MMRDA_PG4_27	Pipes-Manufacturing process	16	25-Jan-23	10-Feb-23	25-Jan-23 A	10-Feb-23 A	100%
Manufacturing Testing & Dispatch		24	10-Feb-23	06-Mar-23	10-Feb-23 A	06-Mar-23 A	
MMRDA_PG4_28	Pipes-FAT	5	10-Feb-23	15-Feb-23	10-Feb-23 A	15-Feb-23 A	100%
MMRDA_PG4_28	Pipes-Submission of FAT report & request for Dispatch Clearance	5	15-Feb-23	20-Feb-23	15-Feb-23 A	20-Feb-23 A	100%
MMRDA_PG4_28	Pipes- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	20-Feb-23	06-Mar-23	20-Feb-23 A	06-Mar-23 A	100%
Plumbing Accessories		94	19-Dec-22	23-Mar-23	19-Dec-22 A	23-Mar-23 A	
Ordering		5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	
MMRDA_PG4_28	PA- Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
Manufacturing		65	24-Dec-22	27-Feb-23	24-Dec-22 A	27-Feb-23 A	
MMRDA_PG4_28	PA-Issuance of MC	5	24-Dec-22	29-Dec-22	24-Dec-22 A	29-Dec-22 A	100%
MMRDA_PG4_28	PA-Manufacturing process	10	17-Feb-23	27-Feb-23	17-Feb-23 A	27-Feb-23 A	100%
Manufacturing Testing & Dispatch		24	27-Feb-23	23-Mar-23	27-Feb-23 A	23-Mar-23 A	
MMRDA_PG4_28	PA-FAT	5	27-Feb-23	04-Mar-23	27-Feb-23 A	04-Mar-23 A	100%
MMRDA_PG4_28	PA-Submission of FAT report & request for Dispatch Clearance	5	04-Mar-23	09-Mar-23	04-Mar-23 A	09-Mar-23 A	100%
MMRDA_PG4_28	PA- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	09-Mar-23	23-Mar-23	09-Mar-23 A	23-Mar-23 A	100%
LHDS System		117	28-Dec-22	24-Apr-23	28-Dec-22 A	24-Apr-23 A	
Ordering		2	28-Dec-22	30-Dec-22	28-Dec-22 A	30-Dec-22 A	
MMRDA_PG4_32	LHDS- Release of PO	2	28-Dec-22	30-Dec-22	28-Dec-22 A	30-Dec-22 A	100%
Manufacturing		91	30-Dec-22	31-Mar-23	30-Dec-22 A	31-Mar-23 A	
MMRDA_PG4_32	LHDS-Issuance of MC	10	30-Dec-22	09-Jan-23	30-Dec-22 A	09-Jan-23 A	100%
MMRDA_PG4_32	LHDS-Manufacturing process	15	16-Mar-23	31-Mar-23	16-Mar-23 A	31-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	31-Mar-23	24-Apr-23	31-Mar-23 A	24-Apr-23 A	
MMRDA_PG4_32	LHDS-FAT	5	31-Mar-23	05-Apr-23	31-Mar-23 A	05-Apr-23 A	100%
MMRDA_PG4_32	LHDS-Submission of FAT report & request for Dispatch Clearance	5	05-Apr-23	10-Apr-23	05-Apr-23 A	10-Apr-23 A	100%
MMRDA_PG4_32	LHDS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	10-Apr-23	24-Apr-23	10-Apr-23 A	24-Apr-23 A	100%
Fire Alarm System		126	20-Dec-22	25-Apr-23	20-Dec-22 A	25-Apr-23 A	
Ordering		2	20-Dec-22	22-Dec-22	20-Dec-22 A	22-Dec-22 A	
MMRDA_PG4_32	Fire Alarm- Release of PO	2	20-Dec-22	22-Dec-22	20-Dec-22 A	22-Dec-22 A	100%
Manufacturing		100	22-Dec-22	01-Apr-23	22-Dec-22 A	01-Apr-23 A	
MMRDA_PG4_32	Fire Alarm-Issuance of MC	10	22-Dec-22	01-Jan-23	22-Dec-22 A	01-Jan-23 A	100%
MMRDA_PG4_32	Fire Alarm-Manufacturing process	10	22-Mar-23	01-Apr-23	22-Mar-23 A	01-Apr-23 A	100%
Manufacturing Testing & Dispatch		24	01-Apr-23	25-Apr-23	01-Apr-23 A	25-Apr-23 A	

Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_32	Fire Alarm-FAT	5	01-Apr-23	06-Apr-23	01-Apr-23 A	06-Apr-23 A	100%
MMRDA_PG4_32	Fire Alarm-Submission of FAT report & request for Dispatch Clearance	5	06-Apr-23	11-Apr-23	06-Apr-23 A	11-Apr-23 A	100%
MMRDA_PG4_32	Fire Alarm- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	11-Apr-23	25-Apr-23	11-Apr-23 A	25-Apr-23 A	100%
Plumbing Pump		116	19-Dec-22	14-Apr-23	19-Dec-22 A	14-Apr-23 A	
Ordering		2	19-Dec-22	21-Dec-22	19-Dec-22 A	21-Dec-22 A	
MMRDA_PG4_32	Plumbing Pump- Release of PO	2	19-Dec-22	21-Dec-22	19-Dec-22 A	21-Dec-22 A	100%
Manufacturing		90	21-Dec-22	21-Mar-23	21-Dec-22 A	21-Mar-23 A	
MMRDA_PG4_32	Plumbing Pump-Issuance of MC	10	21-Dec-22	31-Dec-22	21-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_32	Plumbing Pump-Manufacturing process	10	11-Mar-23	21-Mar-23	11-Mar-23 A	21-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	21-Mar-23	14-Apr-23	21-Mar-23 A	14-Apr-23 A	
MMRDA_PG4_32	Plumbing Pump-FAT	5	21-Mar-23	26-Mar-23	21-Mar-23 A	26-Mar-23 A	100%
MMRDA_PG4_32	Plumbing Pump-Submission of FAT report & request for Dispatch Clearance	5	26-Mar-23	31-Mar-23	26-Mar-23 A	31-Mar-23 A	100%
MMRDA_PG4_32	Plumbing Pump- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	31-Mar-23	14-Apr-23	31-Mar-23 A	14-Apr-23 A	100%
Controlling and Monitoring System		119	21-Dec-22	19-Apr-23	21-Dec-22 A	12-Feb-24	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_11730	CMS- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		95	26-Dec-22	31-Mar-23	26-Dec-22 A	31-Mar-23 A	
MMRDA_PG4_11740	CMS-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_11750	CMS-Manufacturing process	10	21-Mar-23	31-Mar-23	21-Mar-23 A	31-Mar-23 A	100%
Manufacturing Testing & Dispatch		19	31-Mar-23	19-Apr-23	31-Mar-23 A	12-Feb-24	
MMRDA_PG4_11760	CMS-FAT	5	31-Mar-23	05-Apr-23	31-Mar-23 A	05-Apr-23 A	100%
MMRDA_PG4_11770	CMS-Submission of FAT report & request for Dispatch Clearance	5	05-Apr-23	10-Apr-23	05-Apr-23 A	10-Apr-23 A	100%
MMRDA_PG4_11790	CMS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	05-Apr-23	19-Apr-23	05-Apr-23 A	12-Feb-24	50%
Electrical Bridges		531	21-Dec-22	07-May-23	21-Dec-22 A	04-Jun-24	
Compact Sub Station		134	24-Dec-22	07-May-23	24-Dec-22 A	07-Jan-24	
Ordering		5	24-Dec-22	29-Dec-22	24-Dec-22 A	29-Dec-22 A	
MMRDA_PG4_31	CSS- Release of PO	5	24-Dec-22	29-Dec-22	24-Dec-22 A	29-Dec-22 A	100%
Manufacturing		105	29-Dec-22	13-Apr-23	29-Dec-22 A	13-Apr-23 A	
MMRDA_PG4_31	CMS-Issuance of MC	5	29-Dec-22	03-Jan-23	29-Dec-22 A	03-Jan-23 A	100%
MMRDA_PG4_31	CMS-Manufacturing process	10	03-Apr-23	13-Apr-23	03-Apr-23 A	13-Apr-23 A	100%
Manufacturing Testing & Dispatch		24	13-Apr-23	07-May-23	13-Apr-23 A	07-Jan-24	
MMRDA_PG4_31	CMS-FAT	5	13-Apr-23	18-Apr-23	13-Apr-23 A	18-Apr-23 A	100%
MMRDA_PG4_31	CMS-Submission of FAT report & request for Dispatch Clearance	5	18-Apr-23	23-Apr-23	18-Apr-23 A	23-Apr-23 A	100%
MMRDA_PG4_31	CMS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	23-Apr-23	07-May-23	23-Apr-23 A	07-Jan-24	40%
HV Cables		134	21-Dec-22	04-May-23	21-Dec-22 A	04-May-23 A	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_31	HV- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		105	26-Dec-22	10-Apr-23	26-Dec-22 A	10-Apr-23 A	
MMRDA_PG4_31	HV-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_31	HV-Manufacturing process	30	11-Mar-23	10-Apr-23	11-Mar-23 A	10-Apr-23 A	100%
Manufacturing Testing & Dispatch		24	10-Apr-23	04-May-23	10-Apr-23 A	04-May-23 A	
MMRDA_PG4_31	HV-FAT	5	10-Apr-23	15-Apr-23	10-Apr-23 A	15-Apr-23 A	100%
MMRDA_PG4_31	HV-Submission of FAT report & request for Dispatch Clearance	5	15-Apr-23	20-Apr-23	15-Apr-23 A	20-Apr-23 A	100%
MMRDA_PG4_31	HV-Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	20-Apr-23	04-May-23	20-Apr-23 A	04-May-23 A	100%
Street Light Fixture		134	21-Dec-22	04-May-23	21-Dec-22 A	04-May-23 A	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_31	Street Light Fixture- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		105	26-Dec-22	10-Apr-23	26-Dec-22 A	10-Apr-23 A	
MMRDA_PG4_32	Street Light Fixture-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_32	Street Light Fixture-Manufacturing process	30	11-Mar-23	10-Apr-23	11-Mar-23 A	10-Apr-23 A	100%
Manufacturing Testing & Dispatch		24	10-Apr-23	04-May-23	10-Apr-23 A	04-May-23 A	



Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_32	Street Light Fixture-FAT	5	10-Apr-23	15-Apr-23	10-Apr-23 A	15-Apr-23 A	100%
MMRDA_PG4_32	Street Light Fixture-Submission of FAT report & request for Dispatch Clearance	5	15-Apr-23	20-Apr-23	15-Apr-23 A	20-Apr-23 A	100%
MMRDA_PG4_32	Street Light Fixture- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	20-Apr-23	04-May-23	20-Apr-23 A	04-May-23 A	100%
Street Light Pole		124	21-Dec-22	24-Apr-23	21-Dec-22 A	10-Jan-24	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_32	Street Light Poles Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		95	26-Dec-22	31-Mar-23	26-Dec-22 A	31-Mar-23 A	
MMRDA_PG4_32	Street Light Poles -Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_32	Street Light Poles -Manufacturing process	30	01-Mar-23	31-Mar-23	01-Mar-23 A	31-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	31-Mar-23	24-Apr-23	31-Mar-23 A	10-Jan-24	
MMRDA_PG4_32	Street Light Poles -FAT	5	31-Mar-23	05-Apr-23	31-Mar-23 A	05-Apr-23 A	100%
MMRDA_PG4_32	Street Light Poles -Submission of FAT report & request for Dispatch Clearance	5	05-Apr-23	10-Apr-23	05-Apr-23 A	10-Apr-23 A	100%
MMRDA_PG4_32	Street Light Poles - Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	10-Apr-23	24-Apr-23	10-Apr-23 A	10-Jan-24	0%
High Mast		124	21-Dec-22	24-Apr-23	21-Dec-22 A	04-Jan-24	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_32	High Mast- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		95	26-Dec-22	31-Mar-23	26-Dec-22 A	31-Mar-23 A	
MMRDA_PG4_32	High Mast-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_32	High Mast-Manufacturing process	30	01-Mar-23	31-Mar-23	01-Mar-23 A	31-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	31-Mar-23	24-Apr-23	31-Mar-23 A	04-Jan-24	
MMRDA_PG4_32	CMS-FAT	5	31-Mar-23	05-Apr-23	31-Mar-23 A	05-Apr-23 A	100%
MMRDA_PG4_32	CMS-Submission of FAT report & request for Dispatch Clearance	5	05-Apr-23	10-Apr-23	05-Apr-23 A	10-Apr-23 A	100%
MMRDA_PG4_32	CMS- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	10-Apr-23	24-Apr-23	10-Apr-23 A	04-Jan-24	40%
Box Girder Light Fixture		114	21-Dec-22	14-Apr-23	21-Dec-22 A	14-Apr-23 A	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_32	Box Girder Fixture- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		85	26-Dec-22	21-Mar-23	26-Dec-22 A	21-Mar-23 A	
MMRDA_PG4_32	Box Girder Fixture-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_32	Box Girder Fixture-Manufacturing process	30	19-Feb-23	21-Mar-23	19-Feb-23 A	21-Mar-23 A	100%
Manufacturing Testing & Dispatch		24	21-Mar-23	14-Apr-23	21-Mar-23 A	14-Apr-23 A	
MMRDA_PG4_32	Box Girder Fixture-FAT	5	21-Mar-23	26-Mar-23	21-Mar-23 A	26-Mar-23 A	100%
MMRDA_PG4_32	Box Girder Fixture-Submission of FAT report & request for Dispatch Clearance	5	26-Mar-23	31-Mar-23	26-Mar-23 A	31-Mar-23 A	100%
MMRDA_PG4_32	Box Girder Fixture- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	31-Mar-23	14-Apr-23	31-Mar-23 A	14-Apr-23 A	100%
CCMS		134	21-Dec-22	04-May-23	21-Dec-22 A	03-Jan-24	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_32	CCMS-Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		105	26-Dec-22	10-Apr-23	26-Dec-22 A	10-Apr-23 A	
MMRDA_PG4_32	CCMS-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	31-Dec-22 A	100%
MMRDA_PG4_32	CCMS-Manufacturing process	30	11-Mar-23	10-Apr-23	11-Mar-23 A	10-Apr-23 A	100%
Manufacturing Testing & Dispatch		24	10-Apr-23	04-May-23	10-Apr-23 A	03-Jan-24	
MMRDA_PG4_32	CCMS-FAT	5	10-Apr-23	15-Apr-23	10-Apr-23 A	15-Apr-23 A	100%
MMRDA_PG4_32	CCMS-Submission of FAT report & request for Dispatch Clearance	5	15-Apr-23	20-Apr-23	15-Apr-23 A	20-Apr-23 A	100%
MMRDA_PG4_32	CCMS Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	20-Apr-23	04-May-23	20-Apr-23 A	03-Jan-24	50%
SCADA Control System (HV)		527	21-Dec-22	29-Apr-23	21-Dec-22 A	31-May-24	
Ordering		5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	
MMRDA_PG4_32	SCADA- Release of PO	5	21-Dec-22	26-Dec-22	21-Dec-22 A	26-Dec-22 A	100%
Manufacturing		498	26-Dec-22	05-Apr-23	26-Dec-22 A	07-May-24	
MMRDA_PG4_32	SCADA-Issuance of MC	5	26-Dec-22	31-Dec-22	26-Dec-22 A	02-Feb-24	40%
MMRDA_PG4_32	SCADA-Manufacturing process	25	11-Mar-23	05-Apr-23	12-Apr-24	07-May-24	0%
Manufacturing Testing & Dispatch		24	05-Apr-23	29-Apr-23	07-May-24	31-May-24	
MMRDA_PG4_32	SCADA-FAT	5	05-Apr-23	10-Apr-23	07-May-24	12-May-24	0%

MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_32	SCADA-Submission of FAT report & request for Dispatch Clearance	5	10-Apr-23	15-Apr-23	12-May-24	17-May-24	0%
MMRDA_PG4_32	SCADA- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	15-Apr-23	29-Apr-23	17-May-24	31-May-24	0%
Aesthetic Lighting Etc.		124	21-Dec-22	24-Apr-23	01-Feb-24	04-Jun-24	
Ordering		5	21-Dec-22	26-Dec-22	01-Feb-24	06-Feb-24	
MMRDA_PG4_32	Aesthetic Lighting- Release of PO	5	21-Dec-22	26-Dec-22	01-Feb-24	06-Feb-24	0%
Manufacturing		95	26-Dec-22	31-Mar-23	06-Feb-24	11-May-24	
MMRDA_PG4_32	Aesthetic Lighting-Issuance of MC	5	26-Dec-22	31-Dec-22	06-Feb-24	11-Feb-24	0%
MMRDA_PG4_32	Aesthetic Lighting-Manufacturing process	30	01-Mar-23	31-Mar-23	11-Apr-24	11-May-24	0%
Manufacturing Testing & Dispatch		24	31-Mar-23	24-Apr-23	11-May-24	04-Jun-24	
MMRDA_PG4_32	Aesthetic Lighting-FAT	5	31-Mar-23	05-Apr-23	11-May-24	16-May-24	0%
MMRDA_PG4_32	Aesthetic Lighting-Submission of FAT report & request for Dispatch Clearance	5	05-Apr-23	10-Apr-23	16-May-24	21-May-24	0%
MMRDA_PG4_32	Aesthetic Lighting- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	10-Apr-23	24-Apr-23	21-May-24	04-Jun-24	0%
TMS - Toll Management System		175	12-Dec-22	05-Jun-23	12-Dec-22 A	05-Jun-23 A	
Conduit/Cable Trays - TMS		102	19-Dec-22	31-Mar-23	19-Dec-22 A	31-Mar-23 A	
Ordering		5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	
MMRDA_PG4_27	Cable/Cable Trays-Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
Manufacturing		79	24-Dec-22	13-Mar-23	24-Dec-22 A	13-Mar-23 A	
MMRDA_PG4_27	Cable/Cable Trays-Issuance of MC	2	24-Dec-22	26-Dec-22	24-Dec-22 A	26-Dec-22 A	100%
MMRDA_PG4_27	Cable/Cable Trays-Manufacturing process	27	14-Feb-23	13-Mar-23	14-Feb-23 A	13-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	13-Mar-23	31-Mar-23	13-Mar-23 A	31-Mar-23 A	
MMRDA_PG4_27	Cable/Cable Trays-FAT	1	13-Mar-23	14-Mar-23	13-Mar-23 A	14-Mar-23 A	100%
MMRDA_PG4_27	Cable/Cable Trays-Submission of FAT report & request for Dispatch Clearance	3	14-Mar-23	17-Mar-23	14-Mar-23 A	17-Mar-23 A	100%
MMRDA_PG4_27	Cable/Cable Trays- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	17-Mar-23	31-Mar-23	17-Mar-23 A	31-Mar-23 A	100%
Cables - TMS		119	20-Dec-22	18-Apr-23	20-Dec-22 A	18-Apr-23 A	
Ordering		5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	
MMRDA_PG4_27	Cables-Release of PO	5	20-Dec-22	25-Dec-22	20-Dec-22 A	25-Dec-22 A	100%
Manufacturing		96	25-Dec-22	31-Mar-23	25-Dec-22 A	31-Mar-23 A	
MMRDA_PG4_27	Cables-Issuance of MC	2	25-Dec-22	27-Dec-22	25-Dec-22 A	27-Dec-22 A	100%
MMRDA_PG4_27	Cables-Manufacturing process	30	01-Mar-23	31-Mar-23	01-Mar-23 A	31-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	31-Mar-23	18-Apr-23	31-Mar-23 A	18-Apr-23 A	
MMRDA_PG4_27	Cables-FAT	1	31-Mar-23	01-Apr-23	31-Mar-23 A	01-Apr-23 A	100%
MMRDA_PG4_27	Cables-Submission of FAT report & request for Dispatch Clearance	3	01-Apr-23	04-Apr-23	01-Apr-23 A	04-Apr-23 A	100%
MMRDA_PG4_27	Cables- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	04-Apr-23	18-Apr-23	04-Apr-23 A	18-Apr-23 A	100%
Poles - TMS		132	12-Dec-22	23-Apr-23	12-Dec-22 A	23-Apr-23 A	
Ordering		5	12-Dec-22	17-Dec-22	12-Dec-22 A	17-Dec-22 A	
MMRDA_PG4_27	Poles-Release of PO	5	12-Dec-22	17-Dec-22	12-Dec-22 A	17-Dec-22 A	100%
Manufacturing		86	17-Dec-22	13-Mar-23	17-Dec-22 A	13-Mar-23 A	
MMRDA_PG4_27	Poles-Issuance of MC	10	17-Dec-22	27-Dec-22	17-Dec-22 A	27-Dec-22 A	100%
MMRDA_PG4_27	Poles-Manufacturing process	30	11-Feb-23	13-Mar-23	11-Feb-23 A	13-Mar-23 A	100%
Manufacturing Testing & Dispatch		41	13-Mar-23	23-Apr-23	13-Mar-23 A	23-Apr-23 A	
MMRDA_PG4_27	Poles-FAT	1	13-Mar-23	14-Mar-23	13-Mar-23 A	14-Mar-23 A	100%
MMRDA_PG4_27	Poles-Submission of FAT report & request for Dispatch Clearance	10	14-Mar-23	24-Mar-23	14-Mar-23 A	24-Mar-23 A	100%
MMRDA_PG4_27	Poles- Receipt of NONO for FAT report & issuance of Dispatch Clearance	30	24-Mar-23	23-Apr-23	24-Mar-23 A	23-Apr-23 A	100%
Sensors - TMS		130	17-Dec-22	26-Apr-23	17-Dec-22 A	26-Apr-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
MMRDA_PG4_27	Sensors-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		107	22-Dec-22	08-Apr-23	22-Dec-22 A	08-Apr-23 A	
MMRDA_PG4_27	Sensors-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
MMRDA_PG4_27	Sensors-Manufacturing process	30	09-Mar-23	08-Apr-23	09-Mar-23 A	08-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	08-Apr-23	26-Apr-23	08-Apr-23 A	26-Apr-23 A	
MMRDA_PG4_27	Sensors-FAT	1	08-Apr-23	09-Apr-23	08-Apr-23 A	09-Apr-23 A	100%



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_27	Sensors-Submission of FAT report & request for Dispatch Clearance	3	09-Apr-23	12-Apr-23	09-Apr-23 A	12-Apr-23 A	100%
MMRDA_PG4_27	Sensors- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	12-Apr-23	26-Apr-23	12-Apr-23 A	26-Apr-23 A	100%
Cameras - TMS		120	17-Dec-22	16-Apr-23	17-Dec-22 A	16-Apr-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
MMRDA_PG4_27	Cameras-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		97	22-Dec-22	29-Mar-23	22-Dec-22 A	29-Mar-23 A	
MMRDA_PG4_27	Cameras-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
MMRDA_PG4_27	Cameras-Manufacturing process	30	27-Feb-23	29-Mar-23	27-Feb-23 A	29-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	29-Mar-23	16-Apr-23	29-Mar-23 A	16-Apr-23 A	
MMRDA_PG4_27	Cameras-FAT	1	29-Mar-23	30-Mar-23	29-Mar-23 A	30-Mar-23 A	100%
MMRDA_PG4_27	Cameras-Submission of FAT report & request for Dispatch Clearance	3	30-Mar-23	02-Apr-23	30-Mar-23 A	02-Apr-23 A	100%
MMRDA_PG4_27	Cameras- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	02-Apr-23	16-Apr-23	02-Apr-23 A	16-Apr-23 A	100%
Racks & Servers - TMS		151	17-Dec-22	17-May-23	17-Dec-22 A	17-May-23 A	
Manufacturing		127	22-Dec-22	28-Apr-23	22-Dec-22 A	28-Apr-23 A	
MMRDA_PG4_27	Racks & Servers-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
MMRDA_PG4_27	Racks & Servers-Manufacturing process	30	29-Mar-23	28-Apr-23	29-Mar-23 A	28-Apr-23 A	100%
Manufacturing Testing & Dispatch		19	28-Apr-23	17-May-23	28-Apr-23 A	17-May-23 A	
MMRDA_PG4_27	Racks & Servers-FAT	1	28-Apr-23	29-Apr-23	28-Apr-23 A	29-Apr-23 A	100%
MMRDA_PG4_27	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	29-Apr-23	02-May-23	29-Apr-23 A	02-May-23 A	100%
MMRDA_PG4_27	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	15	02-May-23	17-May-23	02-May-23 A	17-May-23 A	100%
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
MMRDA_PG4_27	Racks & Servers-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Toll Lane Controller - Kiosk Type - TDC, Printer, Bar Code Reader, Panic Switch etc - TMS		153	17-Dec-22	19-May-23	17-Dec-22 A	19-May-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		130	22-Dec-22	01-May-23	22-Dec-22 A	01-May-23 A	
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type-Issuance of MC	10	22-Dec-22	01-Jan-23	22-Dec-22 A	01-Jan-23 A	100%
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type-Manufacturing process	30	01-Apr-23	01-May-23	01-Apr-23 A	01-May-23 A	100%
Manufacturing Testing & Dispatch		18	01-May-23	19-May-23	01-May-23 A	19-May-23 A	
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type-FAT	1	01-May-23	02-May-23	01-May-23 A	02-May-23 A	100%
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type-Submission of FAT report & request for Dispatch Clearance	3	02-May-23	05-May-23	02-May-23 A	05-May-23 A	100%
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	05-May-23	19-May-23	05-May-23 A	19-May-23 A	100%
Fake note detector - TMS		100	17-Dec-22	27-Mar-23	17-Dec-22 A	27-Mar-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Fake note detector - Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		77	22-Dec-22	09-Mar-23	22-Dec-22 A	09-Mar-23 A	
ZAMRDA_PG4_2	Fake note detector -Issuance of MC	5	22-Dec-22	27-Dec-22	22-Dec-22 A	27-Dec-22 A	100%
ZAMRDA_PG4_2	Fake note detector -Manufacturing process	30	07-Feb-23	09-Mar-23	07-Feb-23 A	09-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	09-Mar-23	27-Mar-23	09-Mar-23 A	27-Mar-23 A	
ZAMRDA_PG4_2	Fake note detector -FAT	1	09-Mar-23	10-Mar-23	09-Mar-23 A	10-Mar-23 A	100%
ZAMRDA_PG4_2	Fake note detector -Submission of FAT report & request for Dispatch Clearance	3	10-Mar-23	13-Mar-23	10-Mar-23 A	13-Mar-23 A	100%
ZAMRDA_PG4_2	Fake note detector - Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	13-Mar-23	27-Mar-23	13-Mar-23 A	27-Mar-23 A	100%
Integrated Cash Drawer - TMS		130	17-Dec-22	26-Apr-23	17-Dec-22 A	26-Apr-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Integrated Cash Drawer - Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		107	22-Dec-22	08-Apr-23	22-Dec-22 A	08-Apr-23 A	
ZAMRDA_PG4_2	Integrated Cash Drawer-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Integrated Cash Drawer-Manufacturing process	30	09-Mar-23	08-Apr-23	09-Mar-23 A	08-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	08-Apr-23	26-Apr-23	08-Apr-23 A	26-Apr-23 A	
ZAMRDA_PG4_2	Integrated Cash Drawer-FAT	1	08-Apr-23	09-Apr-23	08-Apr-23 A	09-Apr-23 A	100%
ZAMRDA_PG4_2	Integrated Cash Drawer - Submission of FAT report & request for Dispatch Clearance	3	09-Apr-23	12-Apr-23	09-Apr-23 A	12-Apr-23 A	100%

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TASK filter: All Activities

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MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
ZAMRDA_PG4_2	Integrated Cash Drawer- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	12-Apr-23	26-Apr-23	12-Apr-23 A	26-Apr-23 A	100%	
Handheld RFID Reader - TMS		155	17-Dec-22	21-May-23	17-Dec-22 A	21-May-23 A		
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A		
ZAMRDA_PG4_2	Handheld RFID Reader - Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%	
Manufacturing		132	22-Dec-22	03-May-23	22-Dec-22 A	03-May-23 A		
ZAMRDA_PG4_2	Handheld RFID Reader -Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%	
ZAMRDA_PG4_2	Handheld RFID Reader -Manufacturing process	30	03-Apr-23	03-May-23	03-Apr-23 A	03-May-23 A	100%	
Manufacturing Testing & Dispatch		18	03-May-23	21-May-23	03-May-23 A	21-May-23 A		
ZAMRDA_PG4_2	Manufacturing Testing & Dispatch-FAT	1	03-May-23	04-May-23	03-May-23 A	04-May-23 A	100%	
ZAMRDA_PG4_2	Manufacturing Testing & Dispatch-Submission of FAT report & request for Dispatch Clearance	3	04-May-23	07-May-23	04-May-23 A	07-May-23 A	100%	
ZAMRDA_PG4_2	Manufacturing Testing & Dispatch - Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	07-May-23	21-May-23	07-May-23 A	21-May-23 A	100%	
Credit / Debit card reader - TMS		130	17-Dec-22	26-Apr-23	17-Dec-22 A	26-Apr-23 A		
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A		
ZAMRDA_PG4_2	Credit / Debit card reader - Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%	
Manufacturing		107	22-Dec-22	08-Apr-23	22-Dec-22 A	08-Apr-23 A		
ZAMRDA_PG4_2	Credit / Debit card reader -Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%	
ZAMRDA_PG4_2	Credit / Debit card reader -Manufacturing process	30	09-Mar-23	08-Apr-23	09-Mar-23 A	08-Apr-23 A	100%	
Manufacturing Testing & Dispatch		18	08-Apr-23	26-Apr-23	08-Apr-23 A	26-Apr-23 A		
ZAMRDA_PG4_2	Credit / Debit card reader -FAT	1	08-Apr-23	09-Apr-23	08-Apr-23 A	09-Apr-23 A	100%	
ZAMRDA_PG4_2	Credit / Debit card reader -Submission of FAT report & request for Dispatch Clearance	3	09-Apr-23	12-Apr-23	09-Apr-23 A	12-Apr-23 A	100%	
ZAMRDA_PG4_2	Credit / Debit card reader - Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	12-Apr-23	26-Apr-23	12-Apr-23 A	26-Apr-23 A	100%	
Toll booth camera - TMS		151	17-Dec-22	17-May-23	17-Dec-22 A	17-May-23 A		
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A		
ZAMRDA_PG4_2	Toll booth camera -Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%	
Manufacturing		128	22-Dec-22	29-Apr-23	22-Dec-22 A	29-Apr-23 A		
ZAMRDA_PG4_2	Toll booth camera -Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%	
ZAMRDA_PG4_2	Toll booth camera -Manufacturing process	30	30-Mar-23	29-Apr-23	30-Mar-23 A	29-Apr-23 A	100%	
Manufacturing Testing & Dispatch		18	29-Apr-23	17-May-23	29-Apr-23 A	17-May-23 A		
ZAMRDA_PG4_2	Toll booth camera - FAT	1	29-Apr-23	30-Apr-23	29-Apr-23 A	30-Apr-23 A	100%	
ZAMRDA_PG4_2	Toll booth camera - Submission of FAT report & request for Dispatch Clearance	3	30-Apr-23	03-May-23	30-Apr-23 A	03-May-23 A	100%	
ZAMRDA_PG4_2	Toll booth camera - Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	03-May-23	17-May-23	03-May-23 A	17-May-23 A	100%	
RFID antenna & reader - TMS		130	17-Dec-22	26-Apr-23	17-Dec-22 A	26-Apr-23 A		
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A		
ZAMRDA_PG4_2	RFID antenna & reader -Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%	
Manufacturing		107	22-Dec-22	08-Apr-23	22-Dec-22 A	08-Apr-23 A		
ZAMRDA_PG4_2	RFID antenna & reader -Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%	
ZAMRDA_PG4_2	RFID antenna & reader -Manufacturing process	30	09-Mar-23	08-Apr-23	09-Mar-23 A	08-Apr-23 A	100%	
Manufacturing Testing & Dispatch		18	08-Apr-23	26-Apr-23	08-Apr-23 A	26-Apr-23 A		
ZAMRDA_PG4_2	RFID antenna & reader -FAT	1	08-Apr-23	09-Apr-23	08-Apr-23 A	09-Apr-23 A	100%	
ZAMRDA_PG4_2	RFID antenna & reader -Submission of FAT report & request for Dispatch Clearance	3	09-Apr-23	12-Apr-23	09-Apr-23 A	12-Apr-23 A	100%	
ZAMRDA_PG4_2	RFID antenna & reader - Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	12-Apr-23	26-Apr-23	12-Apr-23 A	26-Apr-23 A	100%	
Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS		170	17-Dec-22	05-Jun-23	17-Dec-22 A	05-Jun-23 A		
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A		
ZAMRDA_PG4_2	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS -Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%	
Manufacturing		147	22-Dec-22	18-May-23	22-Dec-22 A	18-May-23 A		
ZAMRDA_PG4_2	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS -Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%	
ZAMRDA_PG4_2	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS -Manufacturing process	30	18-Apr-23	18-May-23	18-Apr-23 A	18-May-23 A	100%	
Manufacturing Testing & Dispatch		18	18-May-23	05-Jun-23	18-May-23 A	05-Jun-23 A		
ZAMRDA_PG4_2	Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc - TMS -FAT	1	18-May-23	19-May-23	18-May-23 A	19-May-23 A	100%	
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type-Submission of FAT report & request for Dispatch Clearance	3	19-May-23	22-May-23	19-May-23 A	22-May-23 A	100%	
ZAMRDA_PG4_2	Toll Lane Controller Kiosk Type- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	22-May-23	05-Jun-23	22-May-23 A	05-Jun-23 A	100%	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
Automatic lane barrier - TMS		131	17-Dec-22	27-Apr-23	17-Dec-22 A	27-Apr-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Automatic lane barrier-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		108	22-Dec-22	09-Apr-23	22-Dec-22 A	09-Apr-23 A	
ZAMRDA_PG4_2	Automatic lane barrier-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Automatic lane barrier-Manufacturing process	30	10-Mar-23	09-Apr-23	10-Mar-23 A	09-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	09-Apr-23	27-Apr-23	09-Apr-23 A	27-Apr-23 A	
ZAMRDA_PG4_2	Automatic lane barrier-FAT	1	09-Apr-23	10-Apr-23	09-Apr-23 A	10-Apr-23 A	100%
ZAMRDA_PG4_2	Automatic lane barrier-Submission of FAT report & request for Dispatch Clearance	3	10-Apr-23	13-Apr-23	10-Apr-23 A	13-Apr-23 A	100%
ZAMRDA_PG4_2	Automatic lane barrier- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	13-Apr-23	27-Apr-23	13-Apr-23 A	27-Apr-23 A	100%
Amber siren beacon - TMS		121	17-Dec-22	17-Apr-23	17-Dec-22 A	17-Apr-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Amber siren beacon-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		98	22-Dec-22	30-Mar-23	22-Dec-22 A	30-Mar-23 A	
ZAMRDA_PG4_2	Amber siren beacon-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Amber siren beacon-Manufacturing process	30	28-Feb-23	30-Mar-23	28-Feb-23 A	30-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	30-Mar-23	17-Apr-23	30-Mar-23 A	17-Apr-23 A	
ZAMRDA_PG4_2	Amber siren beacon-FAT	1	30-Mar-23	31-Mar-23	30-Mar-23 A	31-Mar-23 A	100%
ZAMRDA_PG4_2	Amber siren beacon-Submission of FAT report & request for Dispatch Clearance	3	31-Mar-23	03-Apr-23	31-Mar-23 A	03-Apr-23 A	100%
ZAMRDA_PG4_2	Amber siren beacon- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	03-Apr-23	17-Apr-23	03-Apr-23 A	17-Apr-23 A	100%
Incident Capture System Camera - TMS		131	17-Dec-22	27-Apr-23	17-Dec-22 A	27-Apr-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Incident Capture System Camera-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		108	22-Dec-22	09-Apr-23	22-Dec-22 A	09-Apr-23 A	
ZAMRDA_PG4_2	Incident Capture System Camera-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Incident Capture System Camera-Manufacturing process	30	10-Mar-23	09-Apr-23	10-Mar-23 A	09-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	09-Apr-23	27-Apr-23	09-Apr-23 A	27-Apr-23 A	
ZAMRDA_PG4_2	Incident Capture System Camera-FAT	1	09-Apr-23	10-Apr-23	09-Apr-23 A	10-Apr-23 A	100%
ZAMRDA_PG4_2	Incident Capture System Camera-Submission of FAT report & request for Dispatch Clearance	3	10-Apr-23	13-Apr-23	10-Apr-23 A	13-Apr-23 A	100%
ZAMRDA_PG4_2	Incident Capture System Camera- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	13-Apr-23	27-Apr-23	13-Apr-23 A	27-Apr-23 A	100%
Additional Cameras for ANPR - TMS		102	17-Dec-22	29-Mar-23	17-Dec-22 A	29-Mar-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Additional cameras for ANPR-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		79	22-Dec-22	11-Mar-23	22-Dec-22 A	11-Mar-23 A	
ZAMRDA_PG4_2	Additional cameras for ANPR-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Additional cameras for ANPR-Manufacturing process	25	14-Feb-23	11-Mar-23	14-Feb-23 A	11-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	11-Mar-23	29-Mar-23	11-Mar-23 A	29-Mar-23 A	
ZAMRDA_PG4_2	Additional cameras for ANPR-FAT	1	11-Mar-23	12-Mar-23	11-Mar-23 A	12-Mar-23 A	100%
ZAMRDA_PG4_2	Additional cameras for ANPR-Submission of FAT report & request for Dispatch Clearance	3	12-Mar-23	15-Mar-23	12-Mar-23 A	15-Mar-23 A	100%
ZAMRDA_PG4_2	Additional cameras for ANPR- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	15-Mar-23	29-Mar-23	15-Mar-23 A	29-Mar-23 A	100%
Lane Monitoring camera - TMS		163	17-Dec-22	29-May-23	17-Dec-22 A	29-May-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Lane Monitoring Camera-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		140	22-Dec-22	11-May-23	22-Dec-22 A	11-May-23 A	
ZAMRDA_PG4_2	Lane Monitoring Camera-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Lane Monitoring Camera-Manufacturing process	30	11-Apr-23	11-May-23	11-Apr-23 A	11-May-23 A	100%
Manufacturing Testing & Dispatch		18	11-May-23	29-May-23	11-May-23 A	29-May-23 A	
ZAMRDA_PG4_2	Lane Monitoring Camera-FAT	1	11-May-23	12-May-23	11-May-23 A	12-May-23 A	100%
ZAMRDA_PG4_2	Lane Monitoring Camera-Submission of FAT report & request for Dispatch Clearance	3	12-May-23	15-May-23	12-May-23 A	15-May-23 A	100%
ZAMRDA_PG4_2	Lane Monitoring Camera- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	15-May-23	29-May-23	15-May-23 A	29-May-23 A	100%
Manual lane barrier - TMS		140	17-Dec-22	06-May-23	17-Dec-22 A	06-May-23 A	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Manual lane barrier-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		117	22-Dec-22	18-Apr-23	22-Dec-22 A	18-Apr-23 A	
ZAMRDA_PG4_2	Manual lane barrier-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Manual lane barrier-Manufacturing process	30	19-Mar-23	18-Apr-23	19-Mar-23 A	18-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	18-Apr-23	06-May-23	18-Apr-23 A	06-May-23 A	
ZAMRDA_PG4_2	Manual lane barrier-FAT	1	18-Apr-23	19-Apr-23	18-Apr-23 A	19-Apr-23 A	100%
ZAMRDA_PG4_2	Manual lane barrier-Submission of FAT report & request for Dispatch Clearance	3	19-Apr-23	22-Apr-23	19-Apr-23 A	22-Apr-23 A	100%
ZAMRDA_PG4_2	Manual lane barrier- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	22-Apr-23	06-May-23	22-Apr-23 A	06-May-23 A	100%
Automatic vehicle classifier - TMS		133	17-Dec-22	29-Apr-23	17-Dec-22 A	29-Apr-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_2	Automatic vehicle classifier- Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		110	22-Dec-22	11-Apr-23	22-Dec-22 A	11-Apr-23 A	
ZAMRDA_PG4_2	Automatic vehicle classifier-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_2	Automatic vehicle classifier-Manufacturing process	30	12-Mar-23	11-Apr-23	12-Mar-23 A	11-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	11-Apr-23	29-Apr-23	11-Apr-23 A	29-Apr-23 A	
ZAMRDA_PG4_2	Automatic vehicle classifier-FAT	1	11-Apr-23	12-Apr-23	11-Apr-23 A	12-Apr-23 A	100%
ZAMRDA_PG4_2	Automatic vehicle classifier-Submission of FAT report & request for Dispatch Clearance	3	12-Apr-23	15-Apr-23	12-Apr-23 A	15-Apr-23 A	100%
ZAMRDA_PG4_2	Automatic vehicle classifier- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	15-Apr-23	29-Apr-23	15-Apr-23 A	29-Apr-23 A	100%
MS-Weight in Motion System (WIM)		160	19-Dec-22	28-May-23	19-Dec-22 A	28-May-23 A	
Ordering		5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	
ZAMRDA_PG4_2	MS Weight in Motion System (WIM)-Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
Manufacturing		137	24-Dec-22	10-May-23	24-Dec-22 A	10-May-23 A	
ZAMRDA_PG4_2	MS Weight in Motion System (WIM)-Issuance of MC	2	24-Dec-22	26-Dec-22	24-Dec-22 A	26-Dec-22 A	100%
ZAMRDA_PG4_2	MS Weight in Motion System (WIM)-Manufacturing process	25	15-Apr-23	10-May-23	15-Apr-23 A	10-May-23 A	100%
Manufacturing Testing & Dispatch		18	10-May-23	28-May-23	10-May-23 A	28-May-23 A	
ZAMRDA_PG4_2	MS Weight in Motion System (WIM)-FAT	1	10-May-23	11-May-23	10-May-23 A	11-May-23 A	100%
ZAMRDA_PG4_2	MS Weight in Motion System (WIM)-Submission of FAT report & request for Dispatch Clearance	3	11-May-23	14-May-23	11-May-23 A	14-May-23 A	100%
ZAMRDA_PG4_2	MS Weight in Motion System (WIM)- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	14-May-23	28-May-23	14-May-23 A	28-May-23 A	100%
Weigh bridge including weight display and associated Hardware Equipments - TMS		163	19-Dec-22	31-May-23	19-Dec-22 A	31-May-23 A	
Ordering		5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	
ZAMRDA_PG4_2	Weigh bridge including weight display and associated Hardware Equipments-Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
Manufacturing		140	24-Dec-22	13-May-23	24-Dec-22 A	13-May-23 A	
ZAMRDA_PG4_2	Weigh bridge including weight display and associated Hardware Equipments-Issuance of MC	2	24-Dec-22	26-Dec-22	24-Dec-22 A	26-Dec-22 A	100%
ZAMRDA_PG4_2	Weigh bridge including weight display and associated Hardware Equipments-Manufacturing process	30	13-Apr-23	13-May-23	13-Apr-23 A	13-May-23 A	100%
Manufacturing Testing & Dispatch		18	13-May-23	31-May-23	13-May-23 A	31-May-23 A	
ZAMRDA_PG4_3	Weigh bridge including weight display and associated Hardware Equipments-FAT	1	13-May-23	14-May-23	13-May-23 A	14-May-23 A	100%
ZAMRDA_PG4_3	Weigh bridge including weight display and associated Hardware-Submission of FAT report & request for Dispatch Clearance	3	14-May-23	17-May-23	14-May-23 A	17-May-23 A	100%
ZAMRDA_PG4_3	Toll Lane Controller Kiosk Type- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	17-May-23	31-May-23	17-May-23 A	31-May-23 A	100%
TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer		133	19-Dec-22	01-May-23	19-Dec-22 A	01-May-23 A	
Ordering		5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	
ZAMRDA_PG4_3	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device - Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
Manufacturing		110	24-Dec-22	13-Apr-23	24-Dec-22 A	13-Apr-23 A	
ZAMRDA_PG4_3	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Issuance of MC	2	24-Dec-22	26-Dec-22	24-Dec-22 A	26-Dec-22 A	100%
ZAMRDA_PG4_3	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device-Manufacturing process	30	14-Mar-23	13-Apr-23	14-Mar-23 A	13-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	13-Apr-23	01-May-23	13-Apr-23 A	01-May-23 A	
ZAMRDA_PG4_3	TPS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device -FAT	1	13-Apr-23	14-Apr-23	13-Apr-23 A	14-Apr-23 A	100%
ZAMRDA_PG4_3	TPS- Server, Work Station & TFT Monitor-Submission of FAT report & request for Dispatch Clearance	3	14-Apr-23	17-Apr-23	14-Apr-23 A	17-Apr-23 A	100%
ZAMRDA_PG4_3	TPS- Server, Work Station & TFT Monitor Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	17-Apr-23	01-May-23	17-Apr-23 A	01-May-23 A	100%
Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer- TMS		133	19-Dec-22	01-May-23	19-Dec-22 A	01-May-23 A	
Ordering		5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
ZAMRDA_PG4_3	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer-Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
Manufacturing		110	24-Dec-22	13-Apr-23	24-Dec-22 A	13-Apr-23 A	
ZAMRDA_PG4_3	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer-Issuance of MC	2	24-Dec-22	26-Dec-22	24-Dec-22 A	26-Dec-22 A	100%
ZAMRDA_PG4_3	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer-Manufacturing process	30	14-Mar-23	13-Apr-23	14-Mar-23 A	13-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	13-Apr-23	01-May-23	13-Apr-23 A	01-May-23 A	
ZAMRDA_PG4_3	TMS- Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer-FAT	1	13-Apr-23	14-Apr-23	13-Apr-23 A	14-Apr-23 A	100%
ZAMRDA_PG4_3	TMS- Server, Work Station & TFT Monitors, Switches-Submission of FAT report & request for Dispatch Clearance	3	14-Apr-23	17-Apr-23	14-Apr-23 A	17-Apr-23 A	100%
ZAMRDA_PG4_3	TMS- Server, Work Station & TFT Monitors, Switches- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	17-Apr-23	01-May-23	17-Apr-23 A	01-May-23 A	100%
Prefabricated Cables - TMS		134	19-Dec-22	02-May-23	19-Dec-22 A	02-May-23 A	
Ordering		5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	
ZAMRDA_PG4_3	Prefabricated Cables- Release of PO	5	19-Dec-22	24-Dec-22	19-Dec-22 A	24-Dec-22 A	100%
Manufacturing		111	24-Dec-22	14-Apr-23	24-Dec-22 A	14-Apr-23 A	
ZAMRDA_PG4_3	Prefabricated Cables-Issuance of MC	2	24-Dec-22	26-Dec-22	24-Dec-22 A	26-Dec-22 A	100%
ZAMRDA_PG4_3	Prefabricated Cables-Manufacturing process	30	15-Mar-23	14-Apr-23	15-Mar-23 A	14-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	14-Apr-23	02-May-23	14-Apr-23 A	02-May-23 A	
ZAMRDA_PG4_3	Prefabricated Cables - FAT	1	14-Apr-23	15-Apr-23	14-Apr-23 A	15-Apr-23 A	100%
ZAMRDA_PG4_3	Prefabricated Cables-Submission of FAT report & request for Dispatch Clearance	3	15-Apr-23	18-Apr-23	15-Apr-23 A	18-Apr-23 A	100%
ZAMRDA_PG4_3	Prefabricated Cables- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	18-Apr-23	02-May-23	18-Apr-23 A	02-May-23 A	100%
Installation Hardware & Accessories - TMS		145	17-Dec-22	11-May-23	17-Dec-22 A	11-May-23 A	
Ordering		5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	
ZAMRDA_PG4_3	Installation Hardware & Accessories-Release of PO	5	17-Dec-22	22-Dec-22	17-Dec-22 A	22-Dec-22 A	100%
Manufacturing		122	22-Dec-22	23-Apr-23	22-Dec-22 A	23-Apr-23 A	
ZAMRDA_PG4_3	Installation Hardware & Accessories-Issuance of MC	2	22-Dec-22	24-Dec-22	22-Dec-22 A	24-Dec-22 A	100%
ZAMRDA_PG4_3	Installation Hardware & Accessories-Manufacturing process	30	24-Mar-23	23-Apr-23	24-Mar-23 A	23-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	23-Apr-23	11-May-23	23-Apr-23 A	11-May-23 A	
ZAMRDA_PG4_3	Installation Hardware & Accessories-FAT	1	23-Apr-23	24-Apr-23	23-Apr-23 A	24-Apr-23 A	100%
ZAMRDA_PG4_3	Installation Hardware & Accessories-Submission of FAT report & request for Dispatch Clearance	3	24-Apr-23	27-Apr-23	24-Apr-23 A	27-Apr-23 A	100%
ZAMRDA_PG4_3	Installation Hardware & Accessories- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	27-Apr-23	11-May-23	27-Apr-23 A	11-May-23 A	100%
ATMS - Advanced Traffic Management System		154	30-Nov-22	03-May-23	30-Nov-22 A	03-May-23 A	
Conduit/Cable Trays - ATMS		110	30-Nov-22	20-Mar-23	30-Nov-22 A	20-Mar-23 A	
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	
MMRDA_PG4_27	Cable/Cable Trays-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%
Manufacturing		87	05-Dec-22	02-Mar-23	05-Dec-22 A	02-Mar-23 A	
MMRDA_PG4_27	Cable/Cable Trays-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%
MMRDA_PG4_27	Cable/Cable Trays-Manufacturing process	30	31-Jan-23	02-Mar-23	31-Jan-23 A	02-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	02-Mar-23	20-Mar-23	02-Mar-23 A	20-Mar-23 A	
MMRDA_PG4_27	Cable/Cable Trays-FAT	1	02-Mar-23	03-Mar-23	02-Mar-23 A	03-Mar-23 A	100%
MMRDA_PG4_27	Cable/Cable Trays-Submission of FAT report & request for Dispatch Clearance	3	03-Mar-23	06-Mar-23	03-Mar-23 A	06-Mar-23 A	100%
MMRDA_PG4_27	Cable/Cable Trays- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	06-Mar-23	20-Mar-23	06-Mar-23 A	20-Mar-23 A	100%
Cables - ATMS		121	30-Nov-22	31-Mar-23	30-Nov-22 A	31-Mar-23 A	
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	
MMRDA_PG4_27	Cables-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%
Manufacturing		98	05-Dec-22	13-Mar-23	05-Dec-22 A	13-Mar-23 A	
MMRDA_PG4_27	Cables-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%
MMRDA_PG4_27	Cables-Manufacturing process	30	11-Feb-23	13-Mar-23	11-Feb-23 A	13-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	13-Mar-23	31-Mar-23	13-Mar-23 A	31-Mar-23 A	
MMRDA_PG4_27	Cables-FAT	1	13-Mar-23	14-Mar-23	13-Mar-23 A	14-Mar-23 A	100%
MMRDA_PG4_27	Cables-Submission of FAT report & request for Dispatch Clearance	3	14-Mar-23	17-Mar-23	14-Mar-23 A	17-Mar-23 A	100%
MMRDA_PG4_27	Cables- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	17-Mar-23	31-Mar-23	17-Mar-23 A	31-Mar-23 A	100%
Poles - ATMS		105	01-Dec-22	16-Mar-23	01-Dec-22 A	16-Mar-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
MMRDA_PG4_27	Poles-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%	
Manufacturing		82	06-Dec-22	26-Feb-23	06-Dec-22 A	26-Feb-23 A		
MMRDA_PG4_27	Poles-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%	
MMRDA_PG4_27	Poles-Manufacturing process	25	01-Feb-23	26-Feb-23	01-Feb-23 A	26-Feb-23 A	100%	
Manufacturing Testing & Dispatch		18	26-Feb-23	16-Mar-23	26-Feb-23 A	16-Mar-23 A		
MMRDA_PG4_27	Poles-FAT	1	26-Feb-23	27-Feb-23	26-Feb-23 A	27-Feb-23 A	100%	
MMRDA_PG4_27	Poles-Submission of FAT report & request for Dispatch Clearance	3	27-Feb-23	02-Mar-23	27-Feb-23 A	02-Mar-23 A	100%	
MMRDA_PG4_27	Poles- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	02-Mar-23	16-Mar-23	02-Mar-23 A	16-Mar-23 A	100%	
Sensors - ATMS		120	30-Nov-22	30-Mar-23	30-Nov-22 A	30-Mar-23 A		
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A		
MMRDA_PG4_27	Sensors-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%	
Manufacturing		97	05-Dec-22	12-Mar-23	05-Dec-22 A	12-Mar-23 A		
MMRDA_PG4_27	Sensors-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%	
MMRDA_PG4_27	Sensors-Manufacturing process	30	10-Feb-23	12-Mar-23	10-Feb-23 A	12-Mar-23 A	100%	
Manufacturing Testing & Dispatch		18	12-Mar-23	30-Mar-23	12-Mar-23 A	30-Mar-23 A		
MMRDA_PG4_27	Sensors-FAT	1	12-Mar-23	13-Mar-23	12-Mar-23 A	13-Mar-23 A	100%	
MMRDA_PG4_27	Sensors-Submission of FAT report & request for Dispatch Clearance	3	13-Mar-23	16-Mar-23	13-Mar-23 A	16-Mar-23 A	100%	
MMRDA_PG4_27	Sensors- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	16-Mar-23	30-Mar-23	16-Mar-23 A	30-Mar-23 A	100%	
Cameras - ATMS		125	01-Dec-22	05-Apr-23	01-Dec-22 A	05-Apr-23 A		
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A		
MMRDA_PG4_27	Cameras-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%	
Manufacturing		102	06-Dec-22	18-Mar-23	06-Dec-22 A	18-Mar-23 A		
MMRDA_PG4_27	Cameras-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%	
MMRDA_PG4_27	Cameras-Manufacturing process	100	08-Dec-22	18-Mar-23	08-Dec-22 A	18-Mar-23 A	100%	
Manufacturing Testing & Dispatch		18	18-Mar-23	05-Apr-23	18-Mar-23 A	05-Apr-23 A		
MMRDA_PG4_27	Cameras-FAT	1	18-Mar-23	19-Mar-23	18-Mar-23 A	19-Mar-23 A	100%	
MMRDA_PG4_27	Cameras-Submission of FAT report & request for Dispatch Clearance	3	19-Mar-23	22-Mar-23	19-Mar-23 A	22-Mar-23 A	100%	
MMRDA_PG4_27	Cameras- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	22-Mar-23	05-Apr-23	22-Mar-23 A	05-Apr-23 A	100%	
Racks & Servers - ATMS		105	30-Nov-22	15-Mar-23	30-Nov-22 A	15-Mar-23 A		
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A		
MMRDA_PG4_27	Racks & Servers-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%	
Manufacturing		82	05-Dec-22	25-Feb-23	05-Dec-22 A	25-Feb-23 A		
MMRDA_PG4_27	Racks & Servers-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%	
MMRDA_PG4_27	Racks & Servers-Manufacturing process	30	26-Jan-23	25-Feb-23	26-Jan-23 A	25-Feb-23 A	100%	
Manufacturing Testing & Dispatch		18	25-Feb-23	15-Mar-23	25-Feb-23 A	15-Mar-23 A		
MMRDA_PG4_27	Racks & Servers-FAT	1	25-Feb-23	26-Feb-23	25-Feb-23 A	26-Feb-23 A	100%	
MMRDA_PG4_27	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	26-Feb-23	01-Mar-23	26-Feb-23 A	01-Mar-23 A	100%	
MMRDA_PG4_27	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	01-Mar-23	15-Mar-23	01-Mar-23 A	15-Mar-23 A	100%	
ATMS Control Centre Equipments		105	01-Dec-22	16-Mar-23	01-Dec-22 A	16-Mar-23 A		
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A		
MMRDA_PG4_3C	Racks & Servers-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%	
Manufacturing		82	06-Dec-22	26-Feb-23	06-Dec-22 A	26-Feb-23 A		
MMRDA_PG4_3C	Racks & Servers-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%	
MMRDA_PG4_3C	Racks & Servers-Manufacturing process	30	27-Jan-23	26-Feb-23	27-Jan-23 A	26-Feb-23 A	100%	
Manufacturing Testing & Dispatch		18	26-Feb-23	16-Mar-23	26-Feb-23 A	16-Mar-23 A		
MMRDA_PG4_3C	Racks & Servers-FAT	1	26-Feb-23	27-Feb-23	26-Feb-23 A	27-Feb-23 A	100%	
MMRDA_PG4_3C	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	27-Feb-23	02-Mar-23	27-Feb-23 A	02-Mar-23 A	100%	
MMRDA_PG4_3C	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	02-Mar-23	16-Mar-23	02-Mar-23 A	16-Mar-23 A	100%	
Emergency Call Box System		134	30-Nov-22	13-Apr-23	30-Nov-22 A	13-Apr-23 A		
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A		
MMRDA_PG4_3C	Racks & Servers-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
Manufacturing		111	05-Dec-22	26-Mar-23	05-Dec-22 A	26-Mar-23 A	
MMRDA_PG4_3C	Racks & Servers-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%
MMRDA_PG4_3C	Racks & Servers-Manufacturing process	30	24-Feb-23	26-Mar-23	24-Feb-23 A	26-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	26-Mar-23	13-Apr-23	26-Mar-23 A	13-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	26-Mar-23	27-Mar-23	26-Mar-23 A	27-Mar-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	27-Mar-23	30-Mar-23	27-Mar-23 A	30-Mar-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	30-Mar-23	13-Apr-23	30-Mar-23 A	13-Apr-23 A	100%
Closed Circuit Television (CCTV) for traffic Surveillance		120	01-Dec-22	31-Mar-23	01-Dec-22 A	31-Mar-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		97	06-Dec-22	13-Mar-23	06-Dec-22 A	13-Mar-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	11-Feb-23	13-Mar-23	11-Feb-23 A	13-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	13-Mar-23	31-Mar-23	13-Mar-23 A	31-Mar-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	13-Mar-23	14-Mar-23	13-Mar-23 A	14-Mar-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	14-Mar-23	17-Mar-23	14-Mar-23 A	17-Mar-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	17-Mar-23	31-Mar-23	17-Mar-23 A	31-Mar-23 A	100%
Closed Circuit Television (CCTV) for security under bridge		120	01-Dec-22	31-Mar-23	01-Dec-22 A	31-Mar-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		97	06-Dec-22	13-Mar-23	06-Dec-22 A	13-Mar-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	11-Feb-23	13-Mar-23	11-Feb-23 A	13-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	13-Mar-23	31-Mar-23	13-Mar-23 A	31-Mar-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	13-Mar-23	14-Mar-23	13-Mar-23 A	14-Mar-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	14-Mar-23	17-Mar-23	14-Mar-23 A	17-Mar-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	17-Mar-23	31-Mar-23	17-Mar-23 A	31-Mar-23 A	100%
Video Incident Detection System		100	30-Nov-22	10-Mar-23	30-Nov-22 A	10-Mar-23 A	
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%
Manufacturing		77	05-Dec-22	20-Feb-23	05-Dec-22 A	20-Feb-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	21-Jan-23	20-Feb-23	21-Jan-23 A	20-Feb-23 A	100%
Manufacturing Testing & Dispatch		18	20-Feb-23	10-Mar-23	20-Feb-23 A	10-Mar-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	20-Feb-23	21-Feb-23	20-Feb-23 A	21-Feb-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	21-Feb-23	24-Feb-23	21-Feb-23 A	24-Feb-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	24-Feb-23	10-Mar-23	24-Feb-23 A	10-Mar-23 A	100%
ATCC System		145	01-Dec-22	25-Apr-23	01-Dec-22 A	25-Apr-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		122	06-Dec-22	07-Apr-23	06-Dec-22 A	07-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	08-Mar-23	07-Apr-23	08-Mar-23 A	07-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	07-Apr-23	25-Apr-23	07-Apr-23 A	25-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	07-Apr-23	08-Apr-23	07-Apr-23 A	08-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	08-Apr-23	11-Apr-23	08-Apr-23 A	11-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	11-Apr-23	25-Apr-23	11-Apr-23 A	25-Apr-23 A	100%
Meteorological Data System (MDS)		144	02-Dec-22	25-Apr-23	02-Dec-22 A	25-Apr-23 A	
Ordering		5	02-Dec-22	07-Dec-22	02-Dec-22 A	07-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	02-Dec-22	07-Dec-22	02-Dec-22 A	07-Dec-22 A	100%
Manufacturing		121	07-Dec-22	07-Apr-23	07-Dec-22 A	07-Apr-23 A	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	07-Dec-22	09-Dec-22	07-Dec-22 A	09-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	08-Mar-23	07-Apr-23	08-Mar-23 A	07-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	07-Apr-23	25-Apr-23	07-Apr-23 A	25-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	07-Apr-23	08-Apr-23	07-Apr-23 A	08-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	08-Apr-23	11-Apr-23	08-Apr-23 A	11-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	11-Apr-23	25-Apr-23	11-Apr-23 A	25-Apr-23 A	100%
Variable message sign (VMS)		153	30-Nov-22	02-May-23	30-Nov-22 A	02-May-23 A	
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%
Manufacturing		130	05-Dec-22	14-Apr-23	05-Dec-22 A	14-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	15-Mar-23	14-Apr-23	15-Mar-23 A	14-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	14-Apr-23	02-May-23	14-Apr-23 A	02-May-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	14-Apr-23	15-Apr-23	14-Apr-23 A	15-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	15-Apr-23	18-Apr-23	15-Apr-23 A	18-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	18-Apr-23	02-May-23	18-Apr-23 A	02-May-23 A	100%
Vehicle Actuated Speed Warning System (VASS)		153	01-Dec-22	03-May-23	01-Dec-22 A	03-May-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		130	06-Dec-22	15-Apr-23	06-Dec-22 A	15-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	16-Mar-23	15-Apr-23	16-Mar-23 A	15-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	15-Apr-23	03-May-23	15-Apr-23 A	03-May-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	15-Apr-23	16-Apr-23	15-Apr-23 A	16-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	16-Apr-23	19-Apr-23	16-Apr-23 A	19-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	19-Apr-23	03-May-23	19-Apr-23 A	03-May-23 A	100%
Mobile Radio Communication system (MRCS)		153	01-Dec-22	03-May-23	01-Dec-22 A	03-May-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		130	06-Dec-22	15-Apr-23	06-Dec-22 A	15-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	16-Mar-23	15-Apr-23	16-Mar-23 A	15-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	15-Apr-23	03-May-23	15-Apr-23 A	03-May-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	15-Apr-23	16-Apr-23	15-Apr-23 A	16-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	16-Apr-23	19-Apr-23	16-Apr-23 A	19-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	19-Apr-23	03-May-23	19-Apr-23 A	03-May-23 A	100%
Data Communication System - Network Racks, Networking Switches & Cabling and Accessories		153	01-Dec-22	03-May-23	01-Dec-22 A	03-May-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	Data Communication-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		130	06-Dec-22	15-Apr-23	06-Dec-22 A	15-Apr-23 A	
MMRDA_PG4_31	Data Communication-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	Data Communication-Manufacturing process	30	16-Mar-23	15-Apr-23	16-Mar-23 A	15-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	15-Apr-23	03-May-23	15-Apr-23 A	03-May-23 A	
MMRDA_PG4_31	Data Communication-FAT	1	15-Apr-23	16-Apr-23	15-Apr-23 A	16-Apr-23 A	100%
MMRDA_PG4_31	Data Communication-Submission of FAT report & request for Dispatch Clearance	3	16-Apr-23	19-Apr-23	16-Apr-23 A	19-Apr-23 A	100%
MMRDA_PG4_31	Data Communication Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	19-Apr-23	03-May-23	19-Apr-23 A	03-May-23 A	100%
Optic fibre Cable System		132	30-Nov-22	11-Apr-23	30-Nov-22 A	11-Apr-23 A	
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	
MMRDA_PG4_31	Optic Fibre Cable-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%
Manufacturing		109	05-Dec-22	24-Mar-23	05-Dec-22 A	24-Mar-23 A	
MMRDA_PG4_31	Optic Fibre Cable-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%



MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MMRDA_PG4_31	Ofic Fibre Cable-Manufacturing process	30	22-Feb-23	24-Mar-23	22-Feb-23 A	24-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	24-Mar-23	11-Apr-23	24-Mar-23 A	11-Apr-23 A	
MMRDA_PG4_31	Ofic Fibre Cable-FAT	1	24-Mar-23	25-Mar-23	24-Mar-23 A	25-Mar-23 A	100%
MMRDA_PG4_31	Ofic Fibre Cable-Submission of FAT report & request for Dispatch Clearance	3	25-Mar-23	28-Mar-23	25-Mar-23 A	28-Mar-23 A	100%
MMRDA_PG4_31	Ofic Fibre Cable- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	28-Mar-23	11-Apr-23	28-Mar-23 A	11-Apr-23 A	100%
CCTV Poles, Nut & Bolts		144	01-Dec-22	24-Apr-23	01-Dec-22 A	24-Apr-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	CCTV Poles & Nut Bolts-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		121	06-Dec-22	06-Apr-23	06-Dec-22 A	06-Apr-23 A	
MMRDA_PG4_31	CCTV Poles & Nut Bolts-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	CCTV Poles & Nut Bolts-Manufacturing process	30	07-Mar-23	06-Apr-23	07-Mar-23 A	06-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	06-Apr-23	24-Apr-23	06-Apr-23 A	24-Apr-23 A	
MMRDA_PG4_31	CCTV Poles & Nut Bolts-FAT	1	06-Apr-23	07-Apr-23	06-Apr-23 A	07-Apr-23 A	100%
MMRDA_PG4_31	CCTV Poles & Nut Bolts-Submission of FAT report & request for Dispatch Clearance	3	07-Apr-23	10-Apr-23	07-Apr-23 A	10-Apr-23 A	100%
MMRDA_PG4_31	CCTV Poles & Nut Bolts- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	10-Apr-23	24-Apr-23	10-Apr-23 A	24-Apr-23 A	100%
Cables, Installation hardware & Accessories		135	01-Dec-22	15-Apr-23	01-Dec-22 A	15-Apr-23 A	
Ordering		5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	
MMRDA_PG4_31	Cables hardware & Accessories-Release of PO	5	01-Dec-22	06-Dec-22	01-Dec-22 A	06-Dec-22 A	100%
Manufacturing		112	06-Dec-22	28-Mar-23	06-Dec-22 A	28-Mar-23 A	
MMRDA_PG4_31	Cables hardware & Accessories-Issuance of MC	2	06-Dec-22	08-Dec-22	06-Dec-22 A	08-Dec-22 A	100%
MMRDA_PG4_31	Cables hardware & Accessories-Manufacturing process	30	26-Feb-23	28-Mar-23	26-Feb-23 A	28-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	28-Mar-23	15-Apr-23	28-Mar-23 A	15-Apr-23 A	
MMRDA_PG4_31	Cables hardware & Accessories FAT	1	28-Mar-23	29-Mar-23	28-Mar-23 A	29-Mar-23 A	100%
MMRDA_PG4_31	Cables hardware & Accessories-Submission of FAT report & request for Dispatch Clearance	3	29-Mar-23	01-Apr-23	29-Mar-23 A	01-Apr-23 A	100%
MMRDA_PG4_31	Cables hardware & Accessories- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	01-Apr-23	15-Apr-23	01-Apr-23 A	15-Apr-23 A	100%
VMS Gantry		136	30-Nov-22	15-Apr-23	30-Nov-22 A	15-Apr-23 A	
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%
Manufacturing		113	05-Dec-22	28-Mar-23	05-Dec-22 A	28-Mar-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	26-Feb-23	28-Mar-23	26-Feb-23 A	28-Mar-23 A	100%
Manufacturing Testing & Dispatch		18	28-Mar-23	15-Apr-23	28-Mar-23 A	15-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	28-Mar-23	29-Mar-23	28-Mar-23 A	29-Mar-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	29-Mar-23	01-Apr-23	29-Mar-23 A	01-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	01-Apr-23	15-Apr-23	01-Apr-23 A	15-Apr-23 A	100%
Software Licences i. e. Sevrer, OS, Third Party Softwares etc		145	30-Nov-22	24-Apr-23	30-Nov-22 A	24-Apr-23 A	
Ordering		5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	
MMRDA_PG4_31	Racks & Servers-Release of PO	5	30-Nov-22	05-Dec-22	30-Nov-22 A	05-Dec-22 A	100%
Manufacturing		122	05-Dec-22	06-Apr-23	05-Dec-22 A	06-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-Issuance of MC	2	05-Dec-22	07-Dec-22	05-Dec-22 A	07-Dec-22 A	100%
MMRDA_PG4_31	Racks & Servers-Manufacturing process	30	07-Mar-23	06-Apr-23	07-Mar-23 A	06-Apr-23 A	100%
Manufacturing Testing & Dispatch		18	06-Apr-23	24-Apr-23	06-Apr-23 A	24-Apr-23 A	
MMRDA_PG4_31	Racks & Servers-FAT	1	06-Apr-23	07-Apr-23	06-Apr-23 A	07-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers-Submission of FAT report & request for Dispatch Clearance	3	07-Apr-23	10-Apr-23	07-Apr-23 A	10-Apr-23 A	100%
MMRDA_PG4_31	Racks & Servers- Receipt of NONO for FAT report & issuance of Dispatch Clearance	14	10-Apr-23	24-Apr-23	10-Apr-23 A	24-Apr-23 A	100%
Delivery		682	23-Jan-23	19-Jun-23	20-Sep-22 A	06-Jun-24	
Buildings & Tolls		682	23-Jan-23	08-May-23	20-Sep-22 A	06-Jun-24	
AC System		591	23-Jan-23	03-May-23	20-Sep-22 A	07-Mar-24	
MMRDA_PG4_4730	Delivery of Duct & Insulation	30	27-Feb-23	29-Mar-23	20-Sep-22 A	28-Dec-23	30%
MMRDA_PG4_4750	Delivery of Pipe & Insulation	30	03-Apr-23	03-May-23	20-Sep-22 A	06-Feb-24	30%
MMRDA_PG4_4910	Delivery of Fire Sealent	30	23-Jan-23	22-Feb-23	17-Jan-24	15-Feb-24	0%

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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
MMRDA_PG4_4920	Delivery of Grills & Diffusers	30	24-Mar-23	23-Apr-23	06-Feb-24	07-Mar-24	0%	
Ventilation System		64	22-Feb-23	08-May-23	21-Dec-23	22-Feb-24		
MMRDA_PG4_4930	Delivery of Ventilation Fans	30	22-Feb-23	24-Mar-23	24-Jan-24	22-Feb-24	0%	
MMRDA_PG4_4940	Delivery of Exhaust Fans	30	09-Mar-23	08-Apr-23	24-Jan-24	22-Feb-24	0%	
MMRDA_PG4_4980	Delivery of GI Duct	30	09-Mar-23	08-Apr-23	24-Jan-24	22-Feb-24	0%	
MMRDA_PG4_4990	Delivery Of VRF,Dx coil & Pac	30	08-Apr-23	08-May-23	21-Dec-23	20-Jan-24	0%	
Electrical System		448	16-Mar-23	18-Apr-23	16-Mar-23 A	05-Jun-24		
MMRDA_PG4_5010	Delivery of Cable Tray & Tray	10	01-Apr-23	11-Apr-23	01-Apr-23 A	13-Aug-23 A	100%	
MMRDA_PG4_5030	Delivery of Cable	10	31-Mar-23	10-Apr-23	07-Sep-23 A	20-Jan-24	60%	
MMRDA_PG4_5040	Delivery of Electrical Panels	10	07-Apr-23	17-Apr-23	21-Jun-23 A	04-Feb-24	60%	
MMRDA_PG4_5050	Delivery of Earthing Strips	10	05-Apr-23	15-Apr-23	23-Apr-24	03-May-24	0%	
MMRDA_PG4_5051	Delivery of Earthing Cable	10	04-Apr-23	14-Apr-23	18-May-24	28-May-24	0%	
MMRDA_PG4_5054	Delivery Of Earthing Electrode	10	27-Mar-23	06-Apr-23	13-May-24	23-May-24	0%	
MMRDA_PG4_5056	Delivery of Lighting Arrester	10	01-Apr-23	11-Apr-23	01-Apr-23 A	10-Aug-23 A	100%	
MMRDA_PG4_5060	Delivery Of Conduit	10	16-Mar-23	26-Mar-23	16-Mar-23 A	08-Aug-23 A	100%	
MMRDA_PG4_5070	Delivery of Distribution Boards	10	25-Mar-23	04-Apr-23	25-Mar-23 A	27-Jan-24	60%	
MMRDA_PG4_5090	Delivery of Feeder Pillars	10	02-Apr-23	12-Apr-23	19-Jan-24	28-Jan-24	0%	
MMRDA_PG4_5100	Delivery of UPS	10	06-Apr-23	16-Apr-23	20-May-23 A	20-Jan-24	20%	
MMRDA_PG4_5120	Delivery of Inverter & Batteries	10	06-Apr-23	16-Apr-23	01-Aug-23 A	19-Jan-24	30%	
MMRDA_PG4_5130	Delivery of Solar Panel	10	04-Apr-23	14-Apr-23	26-May-24	05-Jun-24	0%	
MMRDA_PG4_5150	Delivery of BMS System	10	02-Apr-23	12-Apr-23	20-Feb-24	01-Mar-24	0%	
MMRDA_PG4_5160	Delivery of Public Address system	10	03-Apr-23	13-Apr-23	23-May-24	02-Jun-24	0%	
MMRDA_PG4_5170	Delivery Of Diesel Generator	10	08-Apr-23	18-Apr-23	08-Apr-23 A	08-Aug-23 A	100%	
MMRDA_PG4_5180	Delivery Of Elevator	10	07-Apr-23	17-Apr-23	19-Jan-24	29-Jan-24	0%	
Plumbing & Fire Fighting System		283	23-Mar-23	05-May-23	23-Mar-23 A	09-Feb-24		
MMRDA_PG4_6000	Delivery of Sanitary Fittings	10	20-Apr-23	30-Apr-23	10-Aug-23 A	28-Dec-23	30%	
MMRDA_PG4_6010	Delivery of Pipes	10	06-Apr-23	16-Apr-23	21-Dec-23	31-Dec-23	0%	
MMRDA_PG4_6060	Delivery of Plumbing Accessories	10	23-Mar-23	02-Apr-23	23-Mar-23 A	19-Jul-23 A	100%	
MMRDA_PG4_6130	Delivery of LHDS System	10	24-Apr-23	04-May-23	20-Dec-23	30-Dec-23	0%	
MMRDA_PG4_6140	Delivery of Fire Alarm System	10	25-Apr-23	05-May-23	11-Jul-23 A	09-Feb-24	0%	
MMRDA_PG4_6150	Delivery of Plumbing Pump	10	30-Mar-23	09-Apr-23	14-Sep-23 A	09-Feb-24	0%	
CMS		10	25-Apr-23	05-May-23	27-May-24	06-Jun-24		
MMRDA_PG4_5080	Delivery of Control & Monitoring System	10	25-Apr-23	05-May-23	27-May-24	06-Jun-24	0%	
Electrical Bridges		413	10-Apr-23	14-May-23	14-Apr-23 A	31-May-24		
MMRDA_PG4_500	Delivery of Compact Sub Station (CSS)	10	28-Apr-23	08-May-23	28-Jul-23 A	30-Sep-23 A	100%	
MMRDA_PG4_510	Delivery of HT Cable	10	04-May-23	14-May-23	04-May-23 A	10-Sep-23 A	100%	
MMRDA_PG4_520	Delivery Light Fixtures	10	22-Apr-23	02-May-23	22-Apr-23 A	25-Aug-23 A	100%	
MMRDA_PG4_530	Delivery Light Pole	10	24-Apr-23	04-May-23	24-Apr-23 A	11-Jan-24	90%	
MMRDA_PG4_540	Delivery of High Mast	10	24-Apr-23	04-May-23	24-May-23 A	12-Jan-24	25%	
MMRDA_PG4_550	Delivery of Box Girder Light Fixtures	10	14-Apr-23	24-Apr-23	14-Apr-23 A	10-Aug-23 A	100%	
MMRDA_PG4_560	Delivery Of CCMS	10	04-May-23	14-May-23	10-Aug-23 A	21-Jan-24	25%	
MMRDA_PG4_570	Delivery Of SCADA Control System (HV)	10	15-Apr-23	25-Apr-23	17-May-24	27-May-24	0%	
MMRDA_PG4_580	Delivery Of Aesthetic Lighting	10	10-Apr-23	20-Apr-23	21-May-24	31-May-24	0%	
TMS - Toll Management System		84	27-Mar-23	19-Jun-23	27-Mar-23 A	18-Jan-24		
A1540	Delivery of TMS - Conduit/Cable Tray	10	31-Mar-23	10-Apr-23	31-Mar-23 A	10-Apr-23 A	100%	
A1550	Delivey of TMS - Cable	10	18-Apr-23	28-Apr-23	18-Apr-23 A	28-Apr-23 A	100%	
A1560	Delivey of TMS - Pole	10	23-Apr-23	03-May-23	23-Apr-23 A	03-May-23 A	100%	
A1570	Delivey of TMS - Sensors	10	26-Apr-23	06-May-23	26-Apr-23 A	06-May-23 A	100%	
A1580	Delivey of TMS - Camera	10	16-Apr-23	26-Apr-23	16-Apr-23 A	26-Apr-23 A	100%	
A1600	Delivey of TMS - Racks & Server	10	17-May-23	27-May-23	17-May-23 A	27-May-23 A	100%	
ZA1760	Delivery of TMS - Toll Lane Controller - Kiosk Type	10	19-May-23	29-May-23	19-Jul-23 A	15-Jan-24	65%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
ZA1770	Delivery of TMS - Fake note detector	10	27-Mar-23	06-Apr-23	27-Mar-23 A	06-Apr-23 A	100%
ZA1780	Delivery of TMS - Integrated Cash Drawer	10	26-Apr-23	06-May-23	26-Apr-23 A	06-May-23 A	100%
ZA1790	Delivery of TMS - Handheld RFID Reader	10	21-May-23	31-May-23	21-May-23 A	31-May-23 A	100%
ZA1800	Delivery of TMS - Credit / Debit card reader	10	26-Apr-23	06-May-23	26-Apr-23 A	06-May-23 A	100%
ZA1810	Delivery of TMS - Toll booth camera	10	17-May-23	27-May-23	17-May-23 A	27-May-23 A	100%
ZA1820	Delivery of TMS - RFID antenna & reader	10	26-Apr-23	06-May-23	26-Apr-23 A	06-May-23 A	100%
ZA1830	Delivery of TMS - Traffic Light, OHTL, UFD, Fog Light, TL Post & Camera Post etc	10	09-Jun-23	19-Jun-23	09-Jun-23 A	19-Jun-23 A	100%
ZA1840	Delivery of TMS - Automatic lane barrier	10	27-Apr-23	07-May-23	27-Apr-23 A	07-May-23 A	100%
ZA1850	Delivery of TMS - Amber siren beacon	10	17-Apr-23	27-Apr-23	17-Apr-23 A	27-Apr-23 A	100%
ZA1860	Delivery of TMS - Incident Capture System Camera	10	27-Apr-23	07-May-23	27-Apr-23 A	19-Sep-23 A	100%
ZA1870	Delivery of TMS - Additional Cameras for ANPR	10	13-Apr-23	23-Apr-23	13-Apr-23 A	23-Apr-23 A	100%
ZA1880	Delivery of TMS - Lane Monitoring camera	10	29-May-23	08-Jun-23	29-May-23 A	08-Jun-23 A	100%
ZA1890	Delivery of TMS - Manual lane barrier	10	06-May-23	16-May-23	06-May-23 A	16-May-23 A	100%
ZA1900	Delivery of TMS - Automatic vehicle classifier	10	29-Apr-23	09-May-23	29-Apr-23 A	09-May-23 A	100%
ZA1910	Delivery of TMS - MS-Weight in Motion System (WIM)	10	28-May-23	07-Jun-23	28-May-23 A	07-Jun-23 A	100%
ZA1920	Delivery of TMS - Weigh bridge including weight display and associated Hardware Equipments	10	31-May-23	10-Jun-23	31-May-23 A	10-Jun-23 A	100%
ZA1930	Delivery of TMS - TPS Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer	10	01-May-23	11-May-23	01-May-23 A	18-Jan-24	50%
ZA1940	Delivery of TMS - Server, Work Station & TFT Monitors, Switches, NAS, Back Up Device, Network Printer	10	01-May-23	11-May-23	01-May-23 A	18-Jan-24	50%
ZA1950	Delivery of TMS - Prefabricated Cables	10	02-May-23	12-May-23	02-May-23 A	20-Sep-23 A	100%
ZA1960	Delivery of TMS - Installation Hardware & Accessories	10	11-May-23	21-May-23	11-May-23 A	17-Jan-24	50%
ATMS - Advanced Traffic Management System		58	16-Mar-23	13-May-23	16-Mar-23 A	13-May-23 A	
A1610	Delivery of ATMS - Conduit/Cable Tray	10	20-Mar-23	30-Mar-23	20-Mar-23 A	30-Mar-23 A	100%
A1620	Delivery of ATMS - Cable	10	31-Mar-23	10-Apr-23	31-Mar-23 A	10-Apr-23 A	100%
A1630	Delivery of ATMS - Pole	10	16-Mar-23	26-Mar-23	16-Mar-23 A	26-Mar-23 A	100%
A1640	Delivery of ATMS - Sensors	10	30-Mar-23	09-Apr-23	30-Mar-23 A	09-Apr-23 A	100%
A1650	Delivery of ATMS - Camera	10	05-Apr-23	15-Apr-23	05-Apr-23 A	15-Apr-23 A	100%
A1670	Delivery of ATMS - Racks & Server	10	03-May-23	13-May-23	03-May-23 A	13-May-23 A	100%
Installation		793	22-Aug-22	22-Aug-23	25-May-22 A	27-Sep-24	
Construction Works at Gavan side		687	01-Oct-22	03-Aug-23	25-May-22 A	10-Jun-24	
Main Admin Building & Command Control Centre Building - Gavan (G+3)		536	01-Oct-22	03-Aug-23	24-Aug-22 A	07-Jun-24	
Main Admin Building & CCC Foundation Work		93	01-Oct-22	19-Nov-22	01-Sep-22 A	15-Jul-23 A	
P4CMABF1005	Total Station Survey of Main Admin Building	2			01-Sep-22 A	02-Sep-22 A	100%
P4CMABF1010	Marking of Main Admin Building	3	01-Oct-22	06-Oct-22	01-Sep-22 A	02-Sep-22 A	100%
P4CMABF1020	Excavation	6	01-Oct-22	10-Oct-22	02-Sep-22 A	16-Nov-22 A	100%
P4CMABF1030	PCC	4	12-Oct-22	17-Oct-22	17-Sep-22 A	16-Dec-22 A	100%
P4CMABF1040	Foundation Reinforcement	3	17-Oct-22	20-Oct-22	17-Dec-22 A	10-Jan-23 A	100%
P4CMABF1050	Foundation Shuttering	3	20-Oct-22	25-Oct-22	10-Jan-23 A	28-Jan-23 A	100%
P4CMABF1060	Foundation Casting	3	25-Oct-22	28-Oct-22	29-Jan-23 A	20-Feb-23 A	100%
P4CMABF1070	Plinth Beam Reinforcement	3	28-Oct-22	01-Nov-22	21-Feb-23 A	04-Mar-23 A	100%
P4CMABF1080	Plinth Beam Shuttering	2	01-Nov-22	03-Nov-22	02-Mar-23 A	15-Mar-23 A	100%
P4CMABF1090	Plinth Beam Casting	2	03-Nov-22	05-Nov-22	16-Mar-23 A	20-Mar-23 A	100%
P4CMABF1100	Backfilling with Murram	2	05-Nov-22	08-Nov-22	21-Mar-23 A	24-Mar-23 A	100%
P4CMABF1110	Compaction	2	12-Nov-22	15-Nov-22	24-Mar-23 A	28-Mar-23 A	100%
P4CMABF1120	PCC of Plinth Floor	3	16-Nov-22	19-Nov-22	14-Jul-23 A	15-Jul-23 A	100%
Main Admin Building & CCC Ground Floor		535	19-Nov-22	02-Jun-23	13-Apr-23 A	06-Jun-24	
Civil works for Main Admin Building & CCC Ground Floor		405	19-Nov-22	03-Jan-23	13-Apr-23 A	06-Jan-24	
P4CMABGF1000	Column Reinforcement (Size-500x800) 24 nos.	4	19-Nov-22	24-Nov-22	13-Apr-23 A	12-May-23 A	100%
P4CMABGF1010	Column Shuttering (Size-500x800) 24 nos.	3	19-Nov-22	23-Nov-22	13-Apr-23 A	12-May-23 A	100%
P4CMABGF1020	Column Casting (Size-500x800) 24 nos.	2	19-Nov-22	22-Nov-22	13-Apr-23 A	12-May-23 A	100%
P4CMABGF1021	Column Reinforcement, Shuttering & Casting (Size-500x400) 08 nos.	4	19-Nov-22	24-Nov-22	13-Apr-23 A	12-May-23 A	100%

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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4CMABGF1022	Column Reinforcement, Shuttering & Casting (Size-300x300) 09 nos.	3	23-Nov-22	26-Nov-22	13-Apr-23 A	12-May-23 A	100%
P4CMABGF1023	Column Reinforcement, Shuttering & Casting (Size-400x600) 02 nos.	3	23-Nov-22	26-Nov-22	13-Apr-23 A	12-May-23 A	100%
P4CMABGF1024	Column Reinforcement, Shuttering & Casting (Size-300x500) 04 nos.	3	19-Nov-22	23-Nov-22	13-Apr-23 A	12-May-23 A	100%
P4CMABGF1025	Column Reinforcement, Shuttering & Casting (Size-300x1200) 09 nos.	3	19-Nov-22	23-Nov-22	13-Apr-23 A	12-May-23 A	100%
P4CMABGF1030	Shuttering of Roof Slab & Roof Beam	3	29-Nov-22	02-Dec-22	13-May-23 A	03-Jun-23 A	100%
P4CMABGF1040	Reinforcement of Roof Slab & Roof Beam	4	02-Dec-22	07-Dec-22	20-May-23 A	06-Jun-23 A	100%
P4CMABGF1050	Casting of Roof Slab & Roof Beam	1	07-Dec-22	07-Dec-22	07-Jun-23 A	07-Jun-23 A	100%
P4CMABGF1060	Blockwork	5	14-Dec-22	20-Dec-22	23-Jun-23 A	16-Sep-23 A	100%
P4CMABGF1070	Internal Plastering	4	21-Dec-22	26-Dec-22	28-Jun-23 A	26-Dec-23	81%
P4CMABGF1080	External Plastering	3	21-Dec-22	24-Dec-22	26-Dec-23	29-Dec-23	0%
P4CMABGF1090	Internal Painting	3	22-Dec-22	26-Dec-22	26-Dec-23	29-Dec-23	0%
P4CMABGF1100	Doors and Windows Framework	4	28-Dec-22	02-Jan-23	01-Jan-24	05-Jan-24	0%
P4CMABGF1110	Staircase Work	4	21-Dec-22	26-Dec-22	26-Dec-23	30-Dec-23	0%
P4CMABGF1120	Tile Fking	4	21-Dec-22	26-Dec-22	25-Aug-23 A	29-Dec-23	15%
P4CMABGF1130	Doors and Windows Fixing	4	29-Dec-22	03-Jan-23	02-Jan-24	06-Jan-24	0%
P4CMABGF1140	Water Proofing of Wet Area	2	21-Dec-22	22-Dec-22	20-Sep-23 A	27-Dec-23	30%
P4CMABGF1150	Completion of Civil Activities at Ground Floor	1	29-Dec-22	30-Dec-22	02-Jan-24	02-Jan-24	0%
MEP works for Main Admin Building & CCC Ground Floor		514	11-Mar-23	02-Jun-23	12-Aug-23 A	06-Jun-24	
Electrical Works		514	11-Mar-23	08-May-23	12-Aug-23 A	06-Jun-24	
P4ELMABGF11	CONDUT,CABLE & CABLE TRAY INSTALLATION	10	11-Mar-23	23-Mar-23	12-Aug-23 A	16-Jan-24	50%
P4ELMABGF11	Installation of Electrical Cable Laying & Dressing	4	31-Mar-23	05-Apr-23	10-Sep-23 A	20-Jan-24	5%
P4ELMABGF11	Installation of Electrical Panel	4	08-Apr-23	12-Apr-23	01-Feb-24	06-Feb-24	0%
P4ELMABGF11	MCCB,SFU,MCB,ISOLATOR box	3	23-Mar-23	27-Mar-23	16-Jan-24	19-Jan-24	0%
P4ELMABGF11	INSTALLATION OF GI WALL BOXES	2	24-Mar-23	27-Mar-23	26-Aug-23 A	19-Jan-24	25%
P4ELMABGF11	WIRING FOR POWER & AC SOCKETS Internal	6	27-Mar-23	03-Apr-23	19-Jan-24	25-Jan-24	0%
P4ELMABGF11	WIRING FOR UPS POWER SOCKETS Internal	6	25-Apr-23	03-May-23	23-Jan-24	31-Jan-24	0%
P4ELMABGF11	Installation of UPS system	4	06-Apr-23	12-Apr-23	27-Jan-24	31-Jan-24	0%
P4ELMABGF11	LIGHTING & POWER DISTRIBUTION BOARD	2	27-Mar-23	29-Mar-23	19-Jan-24	22-Jan-24	0%
P4ELMABGF11	LIGHT FITTINGS	2	29-Mar-23	01-Apr-23	22-Jan-24	25-Jan-24	0%
P4ELMABGF11	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	29-Mar-23	06-Apr-23	22-Jan-24	31-Jan-24	0%
P4ELMABGF11	INSTALLATION OF SWITCHES,SOCKETS	2	28-Mar-23	30-Mar-23	20-Jan-24	23-Jan-24	0%
P4ELMABGF11	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	5	03-Apr-23	08-Apr-23	27-Jan-24	01-Feb-24	0%
P4ELMABGF21	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	05-Apr-23	12-Apr-23	30-Jan-24	05-Feb-24	0%
P4ELMABGF2	Public Address System Including Cable Laying & Speaker Installation	3	03-May-23	06-May-23	03-Jun-24	06-Jun-24	0%
P4ELMABGF2	Light Protection & Earthing	6	12-Apr-23	20-Apr-23	05-Feb-24	12-Feb-24	0%
P4ELMABGF2	Installation of Diesel Generator set	4	12-Apr-23	17-Apr-23	05-Feb-24	09-Feb-24	0%
P4ELMABGF2	Cable End Terminated	4	05-Apr-23	11-Apr-23	20-Jan-24	25-Jan-24	0%
P4ELMABGF2	Complete Of Electrical Works	1	06-May-23	08-May-23	06-Jun-24	06-Jun-24	0%
HVAC Works		37	18-Apr-23	02-Jun-23	17-Jan-24	01-Mar-24	
P4HVMBABGF2	Installation Of Units	12	18-Apr-23	04-May-23	17-Jan-24	01-Feb-24	0%
P4HVMBABGF2	Installation Of Tray	12	21-Apr-23	08-May-23	20-Jan-24	05-Feb-24	0%
P4HVMBABGF2	Installation Of copper Pipe with Insulation	8	21-Apr-23	03-May-23	20-Jan-24	31-Jan-24	0%
P4HVMBABGF2	Installation Of Ducting	8	08-May-23	17-May-23	05-Feb-24	14-Feb-24	0%
P4HVMBABGF2	Installation Of Ducting Insulation	8	17-May-23	26-May-23	14-Feb-24	23-Feb-24	0%
P4HVMBABGF2	Installation Of Communication Cable	8	19-May-23	29-May-23	16-Feb-24	26-Feb-24	0%
P4HVMBABGF2	Installation Of Drain pipe Insulation	10	19-May-23	31-May-23	16-Feb-24	28-Feb-24	0%
P4HVMBABGF2	Complete Of HVAC Work	2	31-May-23	02-Jun-23	28-Feb-24	01-Mar-24	0%
Fire Fighting Works		393	17-Mar-23	06-May-23	23-Aug-23 A	28-Feb-24	
P4FFMABGF4	Installation of Fire Pump and accessories. & Plumbing	5	17-Mar-23	23-Mar-23	23-Aug-23 A	13-Jan-24	40%
P4FFMABGF4	Installation Fire pipe & Hydrant system including support structure	7	17-Apr-23	25-Apr-23	09-Feb-24	17-Feb-24	0%
P4FFMABGF4	Installation of Fire Supression System	4	28-Apr-23	03-May-23	20-Feb-24	24-Feb-24	0%



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4FFMABGF4	Installation Sprinklers	6	21-Apr-23	28-Apr-23	14-Feb-24	21-Feb-24	0%
P4FFMABGF4	Pressure Testing	2	28-Apr-23	02-May-23	21-Feb-24	23-Feb-24	0%
P4FFMABGF4	Installation of Potable Fire Extinguisher	6	28-Apr-23	06-May-23	21-Feb-24	28-Feb-24	0%
P4FFMABGF4	Complete Of Fire Fighting Works	1	06-May-23	06-May-23	28-Feb-24	28-Feb-24	0%
Main Admin Building & CCC First Floor		535	22-Dec-22	31-May-23	12-Jun-23 A	07-Jun-24	
Civil works for Main Admin Building & CCC First Floor		406	22-Dec-22	14-Feb-23	12-Jun-23 A	08-Jan-24	
P4CMABFF1000	Column Reinforcement	7	22-Dec-22	30-Dec-22	12-Jun-23 A	22-Jun-23 A	100%
P4CMABFF1010	Column Shuttering	6	24-Dec-22	31-Dec-22	18-Jun-23 A	28-Jun-23 A	100%
P4CMABFF1020	Column Casting	4	31-Dec-22	05-Jan-23	28-Jun-23 A	08-Jul-23 A	100%
P4CMABFF1030	Shuttering of Roof Slab & Roof beam	5	05-Jan-23	11-Jan-23	08-Jul-23 A	31-Jul-23 A	100%
P4CMABFF1040	Reinforcement of Roof Slab & Roof Beam	5	11-Jan-23	17-Jan-23	12-Jul-23 A	04-Aug-23 A	100%
P4CMABFF1050	Casting of Roof Slab & roof Beam	1	17-Jan-23	18-Jan-23	05-Aug-23 A	05-Aug-23 A	100%
P4CMABFF1060	Blockwork	7	25-Jan-23	03-Feb-23	25-Aug-23 A	28-Dec-23	70%
P4CMABFF1070	Internal Plastering	6	02-Feb-23	09-Feb-23	11-Sep-23 A	30-Dec-23	20%
P4CMABFF1080	External Plastering	4	02-Feb-23	07-Feb-23	26-Dec-23	30-Dec-23	0%
P4CMABFF1090	Internal Painting	5	07-Feb-23	13-Feb-23	26-Dec-23	01-Jan-24	0%
P4CMABFF1100	Doors and Windows Framework	5	25-Jan-23	01-Feb-23	26-Dec-23	01-Jan-24	0%
P4CMABFF1110	Staircase Work	5	02-Feb-23	08-Feb-23	26-Dec-23	01-Jan-24	0%
P4CMABFF1120	Tile Fking	6	02-Feb-23	09-Feb-23	26-Dec-23	02-Jan-24	0%
P4CMABFF1130	Doors and Windows Fixing	5	01-Feb-23	07-Feb-23	01-Jan-24	06-Jan-24	0%
P4CMABFF1140	Water Proofing of Wet Area	6	02-Feb-23	09-Feb-23	20-Sep-23 A	30-Dec-23	20%
P4CMABFF1150	Complete Of Civil Work First Floor	1	13-Feb-23	14-Feb-23	06-Jan-24	08-Jan-24	0%
MEP works for Main Admin Building & CCC First Floor		521	11-Apr-23	31-May-23	25-Sep-23 A	07-Jun-24	
Electrical Works		521	11-Apr-23	25-May-23	26-Sep-23 A	07-Jun-24	
P4ELMABFF10	CONDUIT,CABLE & CABLE TRAY INSTALLATION	11	11-Apr-23	25-Apr-23	26-Sep-23 A	23-Jan-24	4%
P4ELMABFF11	MCCB,SFU,MCB,ISOLATOR box	3	29-Apr-23	04-May-23	29-Jan-24	01-Feb-24	0%
P4ELMABFF11	INSTALLATION OF GI WALL BOXES	2	02-May-23	04-May-23	28-Sep-23 A	01-Feb-24	2.01%
P4ELMABFF11	WIRING FOR POWER & AC SOCKETS Internal	11	04-May-23	17-May-23	01-Feb-24	15-Feb-24	0%
P4ELMABFF11	WIRING FOR UPS POWER SOCKETS Internal	6	05-May-23	12-May-23	02-Feb-24	09-Feb-24	0%
P4ELMABFF12	LIGHTING & POWER DISTRIBUTION BOARD	2	04-May-23	08-May-23	01-Feb-24	05-Feb-24	0%
P4ELMABFF13	LIGHT FITTINGS	2	08-May-23	10-May-23	05-Feb-24	07-Feb-24	0%
P4ELMABFF16	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	08-May-23	15-May-23	05-Feb-24	12-Feb-24	0%
P4ELMABFF18	INSTALLATION OF SWITCHES,SOCKETS	2	05-May-23	08-May-23	02-Feb-24	06-Feb-24	0%
P4ELMABFF19	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	10	11-May-23	22-May-23	08-Feb-24	20-Feb-24	0%
P4ELMABFF20	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	17-May-23	24-May-23	15-Feb-24	21-Feb-24	0%
P4ELMABFF21	Public Address System Including Cable Laying & Speaker Installation	3	12-May-23	16-May-23	03-Jun-24	06-Jun-24	0%
P4ELMABFF22	Light Protection & Earthing	8	25-Apr-23	05-May-23	28-May-24	06-Jun-24	0%
P4ELMABFF24	Complete Of Electrical Works	1	24-May-23	25-May-23	06-Jun-24	07-Jun-24	0%
HVAC Works		38	14-Apr-23	31-May-23	17-Jan-24	01-Mar-24	
A4HVMABGF2	Installation Of Units	10	14-Apr-23	27-Apr-23	17-Jan-24	30-Jan-24	0%
A4HVMABGF2	Installation Of Tray	10	17-Apr-23	28-Apr-23	19-Jan-24	31-Jan-24	0%
A4HVMABGF2	Installation Of copper Pipe with Insulation	10	17-Apr-23	29-Apr-23	19-Jan-24	01-Feb-24	0%
A4HVMABGF2	Installation Of Ducting	10	17-Apr-23	29-Apr-23	19-Jan-24	01-Feb-24	0%
A4HVMABGF2	Installation Of Ducting Insulation	10	29-Apr-23	12-May-23	01-Feb-24	13-Feb-24	0%
A4HVMABGF2	Installation Of Communication Cable	10	12-May-23	24-May-23	13-Feb-24	24-Feb-24	0%
A4HVMABGF2	Installation Of Drain pipe Insulation	10	18-May-23	30-May-23	19-Feb-24	01-Mar-24	0%
A4HVMABGF2	Complete Of HVAC Works	1	30-May-23	31-May-23	01-Mar-24	01-Mar-24	0%
Fire Fighting Works		426	17-Apr-23	24-May-23	25-Sep-23 A	28-Feb-24	
P4FFMABFF42	Installation Fire pipe & Hydrant system including support structure	10	17-Apr-23	29-Apr-23	25-Sep-23 A	09-Feb-24	10%
P4FFMABFF43	Installation Sprinklers	10	02-May-23	13-May-23	06-Feb-24	17-Feb-24	0%
P4FFMABFF43	Pressure Testing	7	05-May-23	13-May-23	09-Feb-24	17-Feb-24	0%

MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4FFMABFF44	Installation of Potable Fire Extinguisher	6	13-May-23	19-May-23	17-Feb-24	24-Feb-24	0%
P4FFMABFF46	Fire panel Installation With electrical Connection	8	13-May-23	23-May-23	17-Feb-24	27-Feb-24	0%
P4FFMABFF47	Complete Of Fire Fighting Works	1	23-May-23	24-May-23	27-Feb-24	28-Feb-24	0%
Main Admin Building & CCC Second Floor		527	31-Jan-23	08-Jun-23	24-Aug-22 A	28-May-24	
Civil works for Main Admin Building & CCC Second Floor		412	31-Jan-23	21-Mar-23	24-Aug-22 A	13-Jan-24	
P4CMABSF1000	Column Reinforcement	4	31-Jan-23	04-Feb-23	07-Aug-23 A	20-Aug-23 A	100%
P4CMABSF1010	Column Shuttering	4	01-Feb-23	06-Feb-23	11-Aug-23 A	24-Aug-23 A	100%
P4CMABSF1020	Column Casting	5	06-Feb-23	11-Feb-23	14-Aug-23 A	25-Aug-23 A	100%
P4CMABSF1030	Shuttering of Roof Slab & Roof Beam	4	11-Feb-23	16-Feb-23	21-Aug-23 A	08-Sep-23 A	100%
P4CMABSF1040	Reinforcement of Roof Slab & Roof Beam	4	16-Feb-23	22-Feb-23	24-Aug-22 A	14-Sep-23 A	100%
P4CMABSF1050	Casting of Roof Slab & Roof Beam	1	22-Feb-23	23-Feb-23	15-Sep-23 A	15-Sep-23 A	100%
P4CMABSF1060	Blockwork	6	02-Mar-23	09-Mar-23	26-Dec-23	02-Jan-24	0%
P4CMABSF1070	Internal Plastering	6	08-Mar-23	15-Mar-23	01-Jan-24	08-Jan-24	0%
P4CMABSF1080	External Plastering	5	08-Mar-23	14-Mar-23	01-Jan-24	06-Jan-24	0%
P4CMABSF1090	Internal Painting	5	14-Mar-23	20-Mar-23	06-Jan-24	12-Jan-24	0%
P4CMABSF1100	Doors and Windows Framework	5	02-Mar-23	08-Mar-23	26-Dec-23	01-Jan-24	0%
P4CMABSF1110	Staircase Work	4	08-Mar-23	13-Mar-23	01-Jan-24	05-Jan-24	0%
P4CMABSF1120	Tile Fixing	5	09-Mar-23	15-Mar-23	02-Jan-24	08-Jan-24	0%
P4CMABSF1130	Doors and Windows Fixing	5	08-Mar-23	14-Mar-23	01-Jan-24	06-Jan-24	0%
P4CMABSF1140	Water Proofing of Wet Area	4	08-Mar-23	13-Mar-23	01-Jan-24	05-Jan-24	0%
P4CMABSF1150	Complete Of Civil Work Second Floor	1	20-Mar-23	21-Mar-23	12-Jan-24	13-Jan-24	0%
MEP works for Main Admin Building & CCC Second Floor		109	11-Apr-23	08-Jun-23	20-Jan-24	28-May-24	
Electrical Works		109	11-Apr-23	18-May-23	20-Jan-24	28-May-24	
P4ELMABSF10	CONDUT,CABLE & CABLE TRAY INSTALLATION	11	11-Apr-23	25-Apr-23	20-Jan-24	03-Feb-24	0%
P4ELMABSF11	MCCB,SFU,MCB,ISOLATOR box	7	20-Apr-23	29-Apr-23	31-Jan-24	08-Feb-24	0%
P4ELMABSF11	INSTALLATION OF GI WALL BOXES	5	21-Apr-23	28-Apr-23	01-Feb-24	07-Feb-24	0%
P4ELMABSF11	WIRING FOR POWER & AC SOCKETS Internal	6	21-Apr-23	29-Apr-23	01-Feb-24	08-Feb-24	0%
P4ELMABSF11	WIRING FOR UPS POWER SOCKETS Internal	6	21-Apr-23	29-Apr-23	02-Feb-24	08-Feb-24	0%
P4ELMABSF11	LIGHTING & POWER DISTRIBUTION BOARD	5	21-Apr-23	28-Apr-23	01-Feb-24	07-Feb-24	0%
P4ELMABSF11	LIGHT FITTINGS	5	21-Apr-23	28-Apr-23	02-Feb-24	08-Feb-24	0%
P4ELMABSF11	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	21-Apr-23	02-May-23	02-Feb-24	09-Feb-24	0%
P4ELMABSF11	INSTALLATION OF SWITCHES,SOCKETS	2	21-Apr-23	26-Apr-23	02-Feb-24	05-Feb-24	0%
P4ELMABSF11	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	6	28-Apr-23	06-May-23	07-Feb-24	14-Feb-24	0%
P4ELMABSF21	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	06-May-23	12-May-23	14-Feb-24	21-Feb-24	0%
P4ELMABSF21	Public Address System Including Cable Laying & Speaker Installation	3	21-Apr-23	27-Apr-23	23-May-24	27-May-24	0%
P4ELMABSF21	Light Protection & Earthing	4	06-May-23	11-May-23	14-Feb-24	19-Feb-24	0%
P4ELMABSF21	Installation of BMS System	4	12-May-23	17-May-23	20-Feb-24	24-Feb-24	0%
P4ELMABSF21	Complete Of Electrical Works	1	17-May-23	18-May-23	27-May-24	28-May-24	0%
HVAC Works		31	03-May-23	08-Jun-23	07-Feb-24	13-Mar-24	
B4HVMABGF2	Installation Of Units	8	03-May-23	12-May-23	07-Feb-24	15-Feb-24	0%
B4HVMABGF2	Installation Of Tray	9	08-May-23	18-May-23	12-Feb-24	21-Feb-24	0%
B4HVMABGF2	Installation Of copper Pipe with Insulation	10	08-May-23	19-May-23	12-Feb-24	22-Feb-24	0%
B4HVMABGF2	Installation Of Ductig	3	08-May-23	11-May-23	12-Feb-24	15-Feb-24	0%
B4HVMABGF2	Installation Of Ducting Insulation	5	11-May-23	17-May-23	15-Feb-24	20-Feb-24	0%
B4HVMABGF2	Installation Of Communication Cable	8	19-May-23	29-May-23	23-Feb-24	02-Mar-24	0%
B4HVMABGF2	Installation Of Drain pipe Insulation	8	29-May-23	07-Jun-23	04-Mar-24	12-Mar-24	0%
B4HVMABGF2	Complete Of HVAC Works	1	07-Jun-23	08-Jun-23	13-Mar-24	13-Mar-24	0%
Fire Fighting Works		27	14-Apr-23	17-May-23	30-Jan-24	01-Mar-24	
P4FFMABSF41	Installation Fire pipe & Hydrant system including support structure	13	14-Apr-23	02-May-23	30-Jan-24	14-Feb-24	0%
P4FFMABSF41	Installation Sprinklers	6	21-Apr-23	28-Apr-23	06-Feb-24	13-Feb-24	0%
P4FFMABSF41	Pressure Testing	2	02-May-23	04-May-23	15-Feb-24	16-Feb-24	0%



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4FFMABSF4	Installation of Potable Fire Extinguisher	6	03-May-23	10-May-23	16-Feb-24	22-Feb-24	0%
P4FFMABSF4	Fire panel Installation With electrical Connection	6	10-May-23	17-May-23	23-Feb-24	29-Feb-24	0%
P4FFMABSF47	Complete Of Fire Fighting Works	1	17-May-23	17-May-23	29-Feb-24	01-Mar-24	0%
Main Admin Building & CCC Facade and External Painting		42	17-Apr-23	07-Jun-23	02-Feb-24	23-Mar-24	
P4CFE1000	External Painting	20	17-Apr-23	12-May-23	02-Feb-24	26-Feb-24	0%
P4CFE1010	Facade Work	20	15-May-23	07-Jun-23	28-Feb-24	22-Mar-24	0%
P4CFE1020	Complete All External Works	1	07-Jun-23	07-Jun-23	22-Mar-24	23-Mar-24	0%
Main Admin Building & CCC Terrace Floor		138	08-Mar-23	21-Jun-23	26-Dec-23	04-Jun-24	
Civil works for Main Admin Building & CCC Terrace Floor		31	08-Mar-23	14-Apr-23	26-Dec-23	31-Jan-24	
P4CMABTE1000	Stub Column Casting	10	08-Mar-23	20-Mar-23	26-Dec-23	06-Jan-24	0%
P4CMABTE1020	Parapet Wall Brick Work	10	20-Mar-23	31-Mar-23	06-Jan-24	18-Jan-24	0%
P4CMABTE1030	Plastering of Parapet Wall	10	21-Mar-23	01-Apr-23	06-Jan-24	18-Jan-24	0%
P4CMABTE1040	Painting of Parapet Wall	10	01-Apr-23	14-Apr-23	18-Jan-24	31-Jan-24	0%
MEP works for Main Admin Building & CCC Terrace Floor		127	21-Mar-23	21-Jun-23	06-Jan-24	04-Jun-24	
Electrical Works		127	21-Mar-23	09-May-23	06-Jan-24	04-Jun-24	
P4ELMABTE10	CONDUT,CABLE & CABLE TRAY INSTALLATION	10	26-Apr-23	09-May-23	12-Feb-24	23-Feb-24	0%
P4ELMABTE11	MCCB,SFU,MCB,ISOLATOR box	10	21-Mar-23	01-Apr-23	06-Jan-24	18-Jan-24	0%
P4ELMABTE12	LIGHTING & POWER DISTRIBUTION BOARD	3	23-Mar-23	27-Mar-23	09-Jan-24	12-Jan-24	0%
P4ELMABTE13	LIGHT FITTINGS	4	23-Mar-23	28-Mar-23	09-Jan-24	13-Jan-24	0%
P4ELMABTE14	WIRING FOR POWER & AC SOCKETS Internal	7	21-Mar-23	29-Mar-23	06-Jan-24	15-Jan-24	0%
P4ELMABTE15	WIRING FOR UPS POWER SOCKETS Internal	7	21-Mar-23	29-Mar-23	06-Jan-24	15-Jan-24	0%
P4ELMABTE16	SWITCH CONTROLLED	7	23-Mar-23	31-Mar-23	09-Jan-24	17-Jan-24	0%
P4ELMABTE17	INSTALLATION OF GI WALL BOXES	4	21-Mar-23	25-Mar-23	06-Jan-24	11-Jan-24	0%
P4ELMABTE18	INSTALLATION OF SWITCHES, SOCKETS	5	23-Mar-23	28-Mar-23	09-Jan-24	15-Jan-24	0%
P4ELMABTE19	LIFT WIRING	10	26-Apr-23	09-May-23	12-Feb-24	23-Feb-24	0%
P4ELMABTE20	FIRE ALARM AND DETECTION SYSTEM	5	26-Apr-23	03-May-23	12-Feb-24	17-Feb-24	0%
P4ELMABTE21	Installation Public Address System	5	05-Apr-23	12-Apr-23	25-May-24	31-May-24	0%
P4ELMABTE22	Installation Of Building Management System	10	03-Apr-23	14-Apr-23	20-Feb-24	02-Mar-24	0%
P4ELMABTE23	Installation of Solar Panels	7	04-Apr-23	13-Apr-23	27-May-24	03-Jun-24	0%
P4ELMABTE24	Complete Of Electrical Works	1	03-May-23	04-May-23	04-Jun-24	04-Jun-24	0%
HVAC Works		20	29-May-23	20-Jun-23	04-Mar-24	26-Mar-24	
P4HVMABTEF	Installation Of Units	7	29-May-23	05-Jun-23	04-Mar-24	11-Mar-24	0%
P4HVMABTEF	Installation Of Tray	8	06-Jun-23	14-Jun-23	12-Mar-24	20-Mar-24	0%
P4HVMABTEF	Installation Of copper Pipe with Insulation	3	06-Jun-23	08-Jun-23	12-Mar-24	14-Mar-24	0%
P4HVMABTEF	Installation Of Ductig	4	07-Jun-23	10-Jun-23	13-Mar-24	16-Mar-24	0%
P4HVMABTEF	Installation Of Ducting Insulation	3	12-Jun-23	14-Jun-23	18-Mar-24	20-Mar-24	0%
P4HVMABTEF	Installation Of Communication Cable	4	15-Jun-23	19-Jun-23	21-Mar-24	25-Mar-24	0%
P4HVMABTEF	Complete Of HVAC Works	1	20-Jun-23	20-Jun-23	26-Mar-24	26-Mar-24	0%
Fire Fighting Works		14	06-Jun-23	21-Jun-23	12-Mar-24	27-Mar-24	
P4FFMABTF05	Installation Fire pipe & Hydrant system including support structure	6	06-Jun-23	12-Jun-23	12-Mar-24	18-Mar-24	0%
P4FFMABTF10	Fire Pump and accessories	4	12-Jun-23	16-Jun-23	18-Mar-24	22-Mar-24	0%
P4FFMABTF20	Installation Of Fire Panel With Electrical connection	3	16-Jun-23	20-Jun-23	22-Mar-24	26-Mar-24	0%
P4FFMABTF30	Completion Of Fire Fighting Works	1	20-Jun-23	21-Jun-23	26-Mar-24	27-Mar-24	0%
Main Admin Building & CCC Over Head Tank/ LMR Level		40	20-Mar-23	09-May-23	06-Jan-24	23-Feb-24	
Civil works for Main Admin Building & CCC Over Head Tank/ LMR Level		32	20-Mar-23	28-Apr-23	06-Jan-24	13-Feb-24	
P4CMABHT1000	Bottom Slab	10	20-Mar-23	31-Mar-23	06-Jan-24	18-Jan-24	0%
P4CMABHT1010	Tank Walls	6	03-Apr-23	11-Apr-23	19-Jan-24	27-Jan-24	0%
P4CMABHT1020	Tank Fittings Installation	6	05-Apr-23	13-Apr-23	22-Jan-24	30-Jan-24	0%
P4CMABHT1030	Internal Plastering	6	05-Apr-23	13-Apr-23	22-Jan-24	30-Jan-24	0%
P4CMABHT1040	External Plastering	6	13-Apr-23	20-Apr-23	30-Jan-24	06-Feb-24	0%
P4CMABHT1050	Top Slab	6	20-Apr-23	28-Apr-23	06-Feb-24	13-Feb-24	0%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
MEP works for Main Admin Building & CCC Over Head Tank/ LMR Level		8	28-Apr-23	09-May-23	13-Feb-24	23-Feb-24		
P4CMEP100	Installation of First Fix	5	28-Apr-23	05-May-23	13-Feb-24	19-Feb-24	0%	
P4CMEP1460	Installation of Second Fix	6	02-May-23	09-May-23	16-Feb-24	23-Feb-24	0%	
Building Management System		63	05-May-23	03-Aug-23	14-Feb-24	27-Apr-24		
PGMABBMS1700	Conduit laying	25	05-May-23	03-Jun-23	14-Feb-24	14-Mar-24	0%	
PGMABBMS1710	Cable Tray	25	15-May-23	13-Jun-23	23-Feb-24	23-Mar-24	0%	
PGMABBMS1720	Cable Laying -Power	22	20-May-23	15-Jun-23	29-Feb-24	26-Mar-24	0%	
PGMABBMS1730	Cable Laying- Communication	20	26-May-23	19-Jun-23	06-Mar-24	29-Mar-24	0%	
PGMABBMS1740	Installation Of Sensors	7	24-Jun-23	06-Jul-23	04-Apr-24	12-Apr-24	0%	
PGMABBMS1750	Installation Of Panels	15	26-May-23	13-Jun-23	06-Mar-24	23-Mar-24	0%	
PGMABBMS1760	Installation Of Servers	20	24-Jun-23	03-Aug-23	04-Apr-24	27-Apr-24	0%	
16 Lanes Toll Plaza with road furniture & underground service tunnel at Gavan		558	01-Oct-22	24-Apr-23	25-May-22 A	29-Jan-24		
Underground Service Tunnel		435	01-Oct-22	03-Apr-23	25-May-22 A	06-Dec-23		
Civil works for Underground Service Tunnel		130	01-Oct-22	07-Mar-23	25-May-22 A	30-Jul-23 A		
P4CUG1010	Total Station surveying and Marking	4	01-Oct-22	07-Oct-22	02-Nov-22 A	09-Nov-22 A	100%	
P4CUG1020	Excavation	10	07-Oct-22	19-Oct-22	10-Nov-22 A	10-Jan-23 A	100%	
P4CUG1030	PCC	8	19-Oct-22	29-Oct-22	10-Jan-23 A	28-Jan-23 A	100%	
P4CUG1040	Foundation Reinforcement	8	29-Oct-22	08-Nov-22	03-Feb-23 A	28-Mar-23 A	100%	
P4CUG1050	Foundation Shuttering	10	08-Nov-22	19-Nov-22	12-Feb-23 A	15-Apr-23 A	100%	
P4CUG1060	Foundation Casting	10	19-Nov-22	01-Dec-22	20-Feb-23 A	30-Apr-23 A	100%	
P4CUG1070	Tunnel Wall Reinforcement	10	07-Dec-22	19-Dec-22	20-Apr-23 A	31-May-23 A	100%	
P4CUG1080	Tunnel Wall Shuttering	10	19-Dec-22	30-Dec-22	25-Apr-23 A	07-Jun-23 A	100%	
P4CUG1090	Tunnel Wall Casting	10	30-Dec-22	11-Jan-23	30-Apr-23 A	20-May-23 A	100%	
P4CUG1100	Tunnel Slab Shuttering	8	18-Jan-23	28-Jan-23	10-May-23 A	22-May-23 A	100%	
P4CUG1110	Tunnel Slab Reinforcement	8	28-Jan-23	07-Feb-23	15-May-23 A	30-Jun-23 A	100%	
P4CUG1120	Tunnel Slab Casting	8	07-Feb-23	16-Feb-23	25-May-22 A	14-Jun-23 A	100%	
P4CUG1130	Fabrication of Staircase from Tunnel Booth to Tunnel	8	16-Feb-23	27-Feb-23	10-Jun-23 A	27-Jul-23 A	100%	
P4CUG1140	Erection of Staircase from Tunnel Booth to Tunnel	7	27-Feb-23	07-Mar-23	10-Jul-23 A	30-Jul-23 A	100%	
MEP works for Underground Service Tunnel		38	16-Feb-23	03-Apr-23	18-Oct-23	06-Dec-23		
P4CMEP1540	Installation of First Fix	28	16-Feb-23	22-Mar-23	18-Oct-23	24-Nov-23	0%	
P4CMEP1560	Installation of Second Fix	20	16-Feb-23	13-Mar-23	18-Oct-23	11-Nov-23	0%	
P4CMEP1580	Installation of Third Fix	28	01-Mar-23	03-Apr-23	31-Oct-23	06-Dec-23	0%	
Toll Plazas		459	01-Oct-22	14-Apr-23	25-Jun-22 A	29-Dec-23		
Civil works for Toll Plazas		436	01-Oct-22	14-Mar-23	25-Jun-22 A	30-Nov-23		
P4CTP1010	TS Surveying and Marking	1	01-Oct-22	03-Oct-22	05-May-23 A	09-May-23 A	100%	
P4CTP1020	Earthwork	15	03-Oct-22	21-Oct-22	12-May-23 A	29-May-23 A	100%	
P4CTP1030	PCC	10	21-Oct-22	02-Nov-22	30-May-23 A	03-Jun-23 A	100%	
P4CTP1040	Foundation Reinforcement	13	02-Nov-22	17-Nov-22	03-Jun-23 A	24-Jun-23 A	100%	
P4CTP1050	Foundation Shuttering	10	17-Nov-22	29-Nov-22	25-Jun-22 A	12-Jul-23 A	100%	
P4CTP1060	Foundation Casting	10	23-Nov-22	05-Dec-22	12-Jul-23 A	22-Jul-23 A	100%	
P4CTP1070	Toll Booth Wall Casting& Column	19	05-Dec-22	27-Dec-22	23-Jul-23 A	13-Aug-23 A	100%	
P4CTP1080	Toll Booth Column & Beam Casting	10	27-Dec-22	07-Jan-23	14-Aug-23 A	30-Aug-23 A	100%	
P4CTP1090	Toll Booth Slab Casting	10	07-Jan-23	19-Jan-23	30-Aug-23 A	20-Sep-23 A	100%	
P4CTP1100	Toll Booth Glazing Work	10	19-Jan-23	01-Feb-23	13-Sep-23 A	27-Oct-23	30%	
P4CTP1110	Island Casting	8	03-Feb-23	13-Feb-23	25-Aug-23 A	01-Nov-23	70%	
P4CTP1120	Trench Casting	10	06-Feb-23	17-Feb-23	04-Aug-23 A	03-Nov-23	60%	
P4CTP1130	System Foundations	10	13-Feb-23	25-Feb-23	02-Nov-23	16-Nov-23	0%	
P4CTP1140	Road Work	12	25-Feb-23	11-Mar-23	17-Nov-23	30-Nov-23	0%	
P4CTP1150	Toll Gantry	10	20-Feb-23	03-Mar-23	04-Aug-23 A	11-Nov-23	60%	
P4CTP1160	Glazing Work	15	24-Feb-23	14-Mar-23	08-Nov-23	28-Nov-23	0%	
P4CTP1170	Complete Of Toll Work	1	14-Mar-23	14-Mar-23	29-Nov-23	29-Nov-23	0%	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
MEP works for Toll Plazas		342	20-Feb-23	14-Apr-23	10-Aug-23 A	29-Dec-23	
P4CMEP1480	Installation of First Fix	15	20-Feb-23	09-Mar-23	10-Aug-23 A	23-Nov-23	30%
P4CMEP1500	Installation of Second Fix	15	09-Mar-23	27-Mar-23	23-Nov-23	11-Dec-23	0%
P4CMEP1520	Installation of Third Fix	15	27-Mar-23	14-Apr-23	11-Dec-23	29-Dec-23	0%
Road Work		403	13-Oct-22	28-Feb-23	15-Nov-22 A	21-Oct-23	
P4RWTP101	Earth Work 1	10	13-Oct-22	25-Oct-22	15-Nov-22 A	01-Feb-23 A	100%
P4RWTP102	Earth Work 2	10	26-Oct-22	04-Nov-22	01-Feb-23 A	01-Apr-23 A	100%
P4RWTP103	Earth Work 3	15	04-Nov-22	24-Nov-22	02-Apr-23 A	01-May-23 A	100%
P4RWTP104	Earth Work 4	7	24-Nov-22	01-Dec-22	02-May-23 A	24-Jun-23 A	100%
P4RWTP110	GSB Laying & Subgrade 1	15	19-Oct-22	07-Nov-22	14-Jan-23 A	30-Apr-23 A	100%
P4RWTP111	GSB Laying & Subgrade 2	15	07-Nov-22	25-Nov-22	01-May-23 A	02-Oct-23	85%
P4RWTP120	Compaction 1	15	08-Nov-22	25-Nov-22	20-Jan-23 A	10-May-23 A	100%
P4RWTP121	Compaction 2	15	25-Nov-22	10-Dec-22	15-May-23 A	03-Oct-23	80%
P4RWTP130	DLC 1	10	07-Nov-22	18-Nov-22	25-Jan-23 A	30-Apr-23 A	100%
P4RWTP131	DLC 2	10	18-Nov-22	29-Nov-22	01-May-23 A	31-Jul-23 A	100%
P4RWTP132	DLC 3	15	29-Nov-22	14-Dec-22	01-Aug-23 A	04-Oct-23	73%
P4RWTP140	Compaction Lot 1	10	14-Dec-22	26-Dec-22	01-Feb-23 A	10-May-23 A	100%
P4RWTP141	Compaction Lot 2	10	26-Dec-22	05-Jan-23	11-May-23 A	10-Jul-23 A	100%
P4RWTP142	Compaction Lot 3	10	05-Jan-23	16-Jan-23	10-Aug-23 A	07-Oct-23	70%
P4RWTP150	PQC LOT 1	10	16-Jan-23	28-Jan-23	13-Feb-23 A	30-Apr-23 A	100%
P4RWTP160	PQC LOT 2	10	28-Jan-23	08-Feb-23	01-May-23 A	30-Jun-23 A	100%
P4RWTP170	PQC LOT 3	10	08-Feb-23	17-Feb-23	01-Jul-23 A	11-Oct-23	65%
P4RWTP180	PQC LOT 4	10	18-Feb-23	28-Feb-23	11-Oct-23	21-Oct-23	0%
Road Furnitures		70	28-Jan-23	24-Apr-23	02-Nov-23	29-Jan-24	
P4RFTP110	Foundation for Road Furniture	30	28-Jan-23	06-Mar-23	02-Nov-23	11-Dec-23	0%
P4RFTP120	Fabrication for Road Furniture	30	06-Mar-23	11-Apr-23	11-Dec-23	16-Jan-24	0%
P4RFTP130	Installation of Road Furniture	10	11-Apr-23	24-Apr-23	16-Jan-24	29-Jan-24	0%
Weigh Bridges- 2 nos.		32	23-Mar-23	03-May-23	13-Dec-23	19-Jan-24	
Weigh Bridge- 01		30	23-Mar-23	29-Apr-23	13-Dec-23	17-Jan-24	
Civil works for Weigh Bridge- 01		30	23-Mar-23	29-Apr-23	13-Dec-23	17-Jan-24	
P4WBTP100	Provision of Weigh Bridge	30	23-Mar-23	29-Apr-23	13-Dec-23	17-Jan-24	0%
Weigh Bridge- 02		30	25-Mar-23	03-May-23	14-Dec-23	19-Jan-24	
Civil works for Weigh Bridge- 02		30	25-Mar-23	03-May-23	14-Dec-23	19-Jan-24	
P4WBTP110	Provision of Weigh Bridge	30	25-Mar-23	03-May-23	14-Dec-23	19-Jan-24	0%
Access Roads to Admin Building (Drive ways)		60	03-Jan-23	16-Mar-23	08-Feb-24	17-Apr-24	
P4ARTP100	TS Marking and Surveying	1	03-Jan-23	04-Jan-23	08-Feb-24	09-Feb-24	0%
P4ARTP110	Excavation of Hard Rock	10	04-Jan-23	16-Jan-23	09-Feb-24	21-Feb-24	0%
P4ARTP120	Sub Grade Laying	10	16-Jan-23	28-Jan-23	21-Feb-24	04-Mar-24	0%
P4ARTP130	Watering & Compaction	10	17-Jan-23	30-Jan-23	21-Feb-24	04-Mar-24	0%
P4ARTP140	GSB Laying	15	20-Jan-23	08-Feb-23	26-Feb-24	14-Mar-24	0%
P4ARTP150	DLC	10	08-Feb-23	21-Feb-23	14-Mar-24	26-Mar-24	0%
P4ARTP160	Separation Membrane	10	21-Feb-23	04-Mar-23	26-Mar-24	06-Apr-24	0%
P4ARTP170	Providing PQC	10	04-Mar-23	16-Mar-23	06-Apr-24	17-Apr-24	0%
Food Plazas (G+1)- 2 nos.		582	10-Oct-22	13-Jul-23	26-Nov-22 A	10-Jun-24	
Food Plaza- 01		573	01-Nov-22	30-Jun-23	30-Nov-22 A	08-Jun-24	
Food Plaza- 01 Foundation Work		66	01-Nov-22	14-Jan-23	30-Nov-22 A	24-Jun-23 A	
P4CFFPI1005	Total station survey for Food Plaza- 01	2			30-Nov-22 A	04-Dec-22 A	100%
P4CFFPI1010	Marking for Food Plaza- 01	1	01-Nov-22	02-Nov-22	03-Dec-22 A	05-Dec-22 A	100%
P4CFFPI1020	Excavation	10	02-Nov-22	14-Nov-22	05-Dec-22 A	17-Mar-23 A	100%
P4CFFPI1030	PCC	5	14-Nov-22	19-Nov-22	13-Mar-23 A	25-Mar-23 A	100%
P4CFFPI1040	Foundation Reinforcement	8	19-Nov-22	29-Nov-22	20-Mar-23 A	15-Apr-23 A	100%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4CFFPI1050	Foundation Shuttering	6	29-Nov-22	06-Dec-22	04-Apr-23 A	29-Apr-23 A	100%	
P4CFFPI1060	Foundation Casting	5	06-Dec-22	12-Dec-22	25-Apr-23 A	08-May-23 A	100%	
P4CFFPI1070	Plinth Beam Reinforcement	4	12-Dec-22	16-Dec-22	11-May-23 A	21-May-23 A	100%	
P4CFFPI1080	Plint Beam Shuttering	2	16-Dec-22	19-Dec-22	17-May-23 A	26-May-23 A	100%	
P4CFFPI1090	Plinth Beam Casting	5	19-Dec-22	24-Dec-22	25-May-23 A	04-Jun-23 A	100%	
P4CFFPI1100	Backfilling with Murram	6	24-Dec-22	31-Dec-22	03-Jun-23 A	13-Jun-23 A	100%	
P4CFFPI1110	Compaction	6	02-Jan-23	09-Jan-23	13-Jun-23 A	18-Jun-23 A	100%	
P4CFFPI1120	PCC of Plinth Floor	5	09-Jan-23	14-Jan-23	15-Jun-23 A	24-Jun-23 A	100%	
Food Plaza- 01 Ground Floor		560	14-Jan-23	13-May-23	20-Jun-23 A	06-Jun-24		
Civil works for Food Plaza- 01 Ground Floor		402	14-Jan-23	31-Mar-23	20-Jun-23 A	04-Dec-23		
P4CGFFPI1000	Column Reinforcement	10	14-Jan-23	27-Jan-23	20-Jun-23 A	30-Jun-23 A	100%	
P4CGFFPI1010	Column Shuttering	10	16-Jan-23	28-Jan-23	22-Jun-23 A	05-Jul-23 A	100%	
P4CGFFPI1020	Column Casting	7	28-Jan-23	06-Feb-23	03-Jul-23 A	11-Jul-23 A	100%	
P4CGFFPI1030	Shuttering of Roof Slab & Roof Beam	10	06-Feb-23	17-Feb-23	10-Jul-23 A	05-Aug-23 A	100%	
P4CGFFPI1040	Reinforcement of Roof Slab & Roof Beam	8	17-Feb-23	28-Feb-23	14-Jul-23 A	10-Aug-23 A	100%	
P4CGFFPI1050	Casting of Roof Slab & Roof Beam	1	28-Feb-23	01-Mar-23	14-Aug-23 A	14-Aug-23 A	100%	
P4CGFFPI1060	Brickwork	6	08-Mar-23	15-Mar-23	31-Aug-23 A	23-Nov-23	60%	
P4CGFFPI1070	Internal Plastering	4	14-Mar-23	18-Mar-23	05-Sep-23 A	23-Nov-23	20%	
P4CGFFPI1080	External Plastering	3	14-Mar-23	17-Mar-23	20-Nov-23	23-Nov-23	0%	
P4CGFFPI1090	Internal Painting	8	21-Mar-23	30-Mar-23	23-Nov-23	02-Dec-23	0%	
P4CGFFPI1100	Doors and Windows Framework	3	08-Mar-23	11-Mar-23	20-Nov-23	23-Nov-23	0%	
P4CGFFPI1110	Staircase Work	6	14-Mar-23	21-Mar-23	20-Nov-23	27-Nov-23	0%	
P4CGFFPI1120	Tile Fixing	6	15-Mar-23	22-Mar-23	23-Nov-23	30-Nov-23	0%	
P4CGFFPI1130	Doors and Windows Fixing	5	11-Mar-23	17-Mar-23	23-Nov-23	29-Nov-23	0%	
P4CGFFPI1140	Water Proofing of Wet Area	6	01-Mar-23	08-Mar-23	20-Nov-23	27-Nov-23	0%	
P4CGFFPI1150	Complete Of Civil Work Ground Floor	1	30-Mar-23	31-Mar-23	02-Dec-23	04-Dec-23	0%	
MEP works for Food Plaza-01 Ground Floor		510	05-Apr-23	13-May-23	22-Sep-23 A	06-Jun-24		
Electrical Works		510	11-Apr-23	10-May-23	22-Sep-23 A	06-Jun-24		
P4ELFPIGF	CONDUT,CABLE & CABLE TRAY INSTALLATION	8	11-Apr-23	20-Apr-23	22-Sep-23 A	31-Jan-24	5%	
P4ELFPIGF	Installation Of Electrical Cable Laying & Dressing	4	15-Apr-23	20-Apr-23	20-Jan-24	25-Jan-24	0%	
P4ELFPIGF	Installation Of Electrical Panel	4	20-Apr-23	26-Apr-23	05-Feb-24	08-Feb-24	0%	
P4ELFPIGF	MCCB,SFU,MCB,ISOLATOR box	3	20-Apr-23	25-Apr-23	31-Jan-24	03-Feb-24	0%	
P4ELFPIGF	INSTALLATION OF GI WALL BOXES	2	21-Apr-23	25-Apr-23	24-Sep-23 A	03-Feb-24	2.99%	
P4ELFPIGF	WIRING FOR POWER & AC SOCKETS Internal	6	26-Apr-23	04-May-23	31-Jan-24	07-Feb-24	0%	
P4ELFPIGF	WIRING FOR UPS POWER SOCKETS Internal	11	26-Apr-23	10-May-23	05-Feb-24	17-Feb-24	0%	
P4ELFPIGF	Installation of UPS System	4	02-May-23	06-May-23	09-Feb-24	14-Feb-24	0%	
P4ELFPIGF	LIGHTING & POWER DISTRIBUTION BOARD	2	26-Apr-23	28-Apr-23	31-Jan-24	03-Feb-24	0%	
P4ELFPIGF	LIGHT FITTINGS	2	28-Apr-23	02-May-23	03-Feb-24	06-Feb-24	0%	
P4ELFPIGF	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	28-Apr-23	06-May-23	03-Feb-24	10-Feb-24	0%	
P4ELFPIGF	INSTALLATION OF SWITCHES, SOCKETS	2	26-Apr-23	29-Apr-23	01-Feb-24	05-Feb-24	0%	
P4ELFPIGF	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	10	28-Apr-23	10-May-23	02-Feb-24	14-Feb-24	0%	
P4ELFPIGF	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	2	02-May-23	04-May-23	05-Feb-24	07-Feb-24	0%	
P4ELFPIGF	Public Address System Including Cable Laying & Speaker Installation	3	26-Apr-23	29-Apr-23	03-Jun-24	06-Jun-24	0%	
P4ELFPIGF	Light Protection & Earthing	4	02-May-23	06-May-23	05-Feb-24	09-Feb-24	0%	
P4ELFPIGF	Installation Of Diesel Generator Set	2	03-May-23	05-May-23	06-Feb-24	08-Feb-24	0%	
P4ELFPIGF	Installation Of BMS System	4	03-May-23	08-May-23	20-Feb-24	24-Feb-24	0%	
P4ELFPIGF	Cable End Terminated	4	20-Apr-23	26-Apr-23	25-Jan-24	31-Jan-24	0%	
P4ELFPIGF	Complete Of Electrical Works	1	08-May-23	08-May-23	06-Jun-24	06-Jun-24	0%	
HVAC Works		410	20-Apr-23	13-May-23	25-Sep-23 A	21-Feb-24		
D4HVMABC	Installation Of Units	4	03-May-23	08-May-23	07-Feb-24	10-Feb-24	0%	
D4HVMABC	Installation Of Tray	2	20-Apr-23	24-Apr-23	25-Sep-23 A	02-Feb-24	5%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
D4HVMABC	Installation Of copper Pipe with Insulation	4	20-Apr-23	26-Apr-23	27-Sep-23 A	03-Feb-24	3%
D4HVMABC	Installation Of Ductig	8	20-Apr-23	02-May-23	28-Sep-23 A	08-Feb-24	2%
D4HVMABC	Installation Of Ducting Insulation	6	02-May-23	09-May-23	28-Sep-23 A	16-Feb-24	2.01%
D4HVMABC	Installation Of Communication Cable	1	09-May-23	10-May-23	16-Feb-24	17-Feb-24	0%
D4HVMABC	Installation Of Drain pipe Insulation	2	10-May-23	12-May-23	17-Feb-24	20-Feb-24	0%
D4HVMABC	Complete Of HVAC Works	1	12-May-23	13-May-23	20-Feb-24	21-Feb-24	0%
Fire Fighting Works		67	05-Apr-23	03-May-23	20-Nov-23	08-Feb-24	
P4FFFPIGF	Installation Fire pipe & Hydrant system including support structure	10	05-Apr-23	18-Apr-23	20-Nov-23	01-Dec-23	0%
P4FFFPIGF	Installation Of Fire Suppression System	4	21-Apr-23	27-Apr-23	30-Jan-24	03-Feb-24	0%
P4FFFPIGF	Pressure Testing	2	18-Apr-23	20-Apr-23	01-Dec-23	04-Dec-23	0%
P4FFFPIGF	Installation of Potable Fire Extinguisher	6	20-Apr-23	27-Apr-23	04-Dec-23	09-Dec-23	0%
P4FFFPIGF	Completion Of Fire Fighting Works	4	27-Apr-23	03-May-23	03-Feb-24	08-Feb-24	0%
Food Plaza- 01 First Floor		569	14-Mar-23	30-May-23	15-Aug-23 A	06-Jun-24	
Civil works for Food Plaza- 01 First Floor		418	14-Mar-23	16-May-23	15-Aug-23 A	11-Dec-23	
P4CFFFP1000	Column Reinforcement	10	14-Mar-23	25-Mar-23	15-Aug-23 A	22-Aug-23 A	100%
P4CFFFP1010	Column Shuttering	5	25-Mar-23	31-Mar-23	18-Aug-23 A	24-Aug-23 A	100%
P4CFFFP1020	Column Casting	5	31-Mar-23	06-Apr-23	22-Aug-23 A	26-Aug-23 A	100%
P4CFFFP1030	Shuttering of Roof Slab & Roof Beam	4	06-Apr-23	12-Apr-23	25-Aug-23 A	06-Sep-23 A	100%
P4CFFFP1040	Reinforcement of Roof Slab & Roof Beam	2	12-Apr-23	15-Apr-23	28-Aug-23 A	10-Sep-23 A	100%
P4CFFFP1050	Casting of Roof Slab & Roof Beam	1	15-Apr-23	15-Apr-23	11-Sep-23 A	11-Sep-23 A	100%
P4CFFFP1060	Blockwork	6	24-Apr-23	02-May-23	20-Nov-23	27-Nov-23	0%
P4CFFFP1070	Internal Plastering	4	02-May-23	06-May-23	27-Nov-23	01-Dec-23	0%
P4CFFFP1080	External Plastering	3	02-May-23	05-May-23	27-Nov-23	30-Nov-23	0%
P4CFFFP1090	Internal Painting	6	08-May-23	15-May-23	02-Dec-23	09-Dec-23	0%
P4CFFFP1100	Doors and Windows Framework	4	24-Apr-23	28-Apr-23	20-Nov-23	24-Nov-23	0%
P4CFFFP1110	Staircase Work	6	02-May-23	09-May-23	27-Nov-23	04-Dec-23	0%
P4CFFFP1120	Tile Fixing	4	06-May-23	11-May-23	01-Dec-23	06-Dec-23	0%
P4CFFFP1130	Doors and Windows Fixing	3	28-Apr-23	03-May-23	24-Nov-23	28-Nov-23	0%
P4CFFFP1140	Water Proofing of Wet Area	3	02-May-23	05-May-23	27-Nov-23	30-Nov-23	0%
P4CFFFP1150	Completion of Civil Activities at First Floor	1	15-May-23	16-May-23	09-Dec-23	11-Dec-23	0%
MEP works for Food Plaza-01 First Floor		170	21-Apr-23	30-May-23	20-Nov-23	06-Jun-24	
Electrical Works		118	28-Apr-23	30-May-23	20-Jan-24	06-Jun-24	
P4ELFPIFF	CONDUT,CABLE & CABLE TRAY INSTALLATION	11	28-Apr-23	13-May-23	20-Jan-24	03-Feb-24	0%
P4ELFPIFF	MCCB,SFU,MCB,ISOLATOR box	3	04-May-23	09-May-23	25-Jan-24	30-Jan-24	0%
P4ELFPIFF	INSTALLATION OF GI WALL BOXES	2	05-May-23	09-May-23	27-Jan-24	30-Jan-24	0%
P4ELFPIFF	WIRING FOR POWER & AC SOCKETS Internal	6	09-May-23	16-May-23	30-Jan-24	06-Feb-24	0%
P4ELFPIFF	WIRING FOR UPS POWER SOCKETS Internal	6	09-May-23	16-May-23	31-Jan-24	07-Feb-24	0%
P4ELFPIFF	LIGHTING & POWER DISTRIBUTION BOARD	2	09-May-23	11-May-23	30-Jan-24	02-Feb-24	0%
P4ELFPIFF	LIGHT FITTINGS	2	11-May-23	13-May-23	02-Feb-24	05-Feb-24	0%
P4ELFPIFF	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	11-May-23	18-May-23	02-Feb-24	09-Feb-24	0%
P4ELFPIFF	INSTALLATION OF SWITCHES,SOCKETS	2	09-May-23	12-May-23	31-Jan-24	02-Feb-24	0%
P4ELFPIFF	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	5	15-May-23	20-May-23	06-Feb-24	12-Feb-24	0%
P4ELFPIFF	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	15-May-23	22-May-23	06-Feb-24	12-Feb-24	0%
P4ELFPIFF	Public Address System Including Cable Laying & Speaker Installation	3	16-May-23	19-May-23	03-Jun-24	06-Jun-24	0%
P4ELFPIFF	Lighting Protection & Earthing	4	22-May-23	26-May-23	12-Feb-24	16-Feb-24	0%
P4ELFPIFF	Installation Of BMS System	4	24-May-23	29-May-23	20-Feb-24	24-Feb-24	0%
P4ELFPIFF	Complete Of Electrical Works	1	29-May-23	30-May-23	06-Jun-24	06-Jun-24	0%
HVAC Works		22	02-May-23	23-May-23	23-Jan-24	19-Feb-24	
E4HVMABC	Installation Of Units	10	10-May-23	22-May-23	07-Feb-24	17-Feb-24	0%
E4HVMABC	Installation Of Tray	2	02-May-23	05-May-23	23-Jan-24	25-Jan-24	0%
E4HVMABC	Installation Of copper Pipe with Insulation	5	02-May-23	08-May-23	23-Jan-24	30-Jan-24	0%

OUR LINK

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TASK filter: All Activities

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MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
E4HVMABC	Installation Of Communication Cable	6	08-May-23	15-May-23	30-Jan-24	06-Feb-24	0%	
E4HVMABC	Installation Of Drain pipe Insulation	6	15-May-23	22-May-23	06-Feb-24	13-Feb-24	0%	
E4HVMABC	Complete Of HVAC Works	1	22-May-23	23-May-23	19-Feb-24	19-Feb-24	0%	
Fire Fighting Works		21	21-Apr-23	19-May-23	20-Nov-23	14-Dec-23		
P4FFFP1FF4	Installation Fire pipe & Hydrant system including support structure	10	21-Apr-23	05-May-23	20-Nov-23	01-Dec-23	0%	
P4FFFP1FF4	Pressure Testing	2	05-May-23	08-May-23	01-Dec-23	04-Dec-23	0%	
P4FFFP1FF4	Installation of Potable Fire Extinguisher	6	08-May-23	15-May-23	04-Dec-23	09-Dec-23	0%	
P4FFFP1FF4	Completion Of Fire Fighting Works	4	15-May-23	19-May-23	09-Dec-23	14-Dec-23	0%	
Food Plaza- 01 External Painting		17	08-May-23	27-May-23	02-Dec-23	22-Dec-23		
P4EPFPI1000	External Painting	17	08-May-23	27-May-23	02-Dec-23	22-Dec-23	0%	
Food Plaza-01 Terrace Floor		171	21-Apr-23	31-May-23	20-Nov-23	08-Jun-24		
Civil works for Food Plaza- 01 Terrace Floor		31	21-Apr-23	31-May-23	20-Nov-23	27-Dec-23		
P4CTFFPI1000	Stub Column Casting	4	21-Apr-23	27-Apr-23	20-Nov-23	24-Nov-23	0%	
P4CTFFPI3290	Parapet Wall & Roof Slab	1	27-Apr-23	28-Apr-23	24-Nov-23	25-Nov-23	0%	
P4CTFFPI3300	Plastering of Parapet Wall	3	28-Apr-23	03-May-23	25-Nov-23	29-Nov-23	0%	
P4CTFFPI3310	Painting of Parapet Wall	3	27-May-23	31-May-23	22-Dec-23	27-Dec-23	0%	
P4CTFFPI3320	Complete Of Terrace Floor	1	31-May-23	31-May-23	27-Dec-23	27-Dec-23	0%	
MEP works for Food Plaza- 01 Terrace Floor		134	05-May-23	25-May-23	04-Jan-24	08-Jun-24		
Electrical Works		134	05-May-23	20-May-23	04-Jan-24	08-Jun-24		
P4ELTFFPI1	CONDUIT LAYING	4	05-May-23	10-May-23	04-Jan-24	08-Jan-24	0%	
P4ELTFFPI1	MCCB,SFU,MCB,ISOLATOR box	2	06-May-23	10-May-23	05-Jan-24	08-Jan-24	0%	
P4ELTFFPI1	LIGHTING & POWER DISTRIBUTION BOARD	2	08-May-23	11-May-23	06-Jan-24	09-Jan-24	0%	
P4ELTFFPI1	LIGHT FITTINGS	3	08-May-23	11-May-23	06-Jan-24	10-Jan-24	0%	
P4ELTFFPI1	WIRING FOR POWER & AC SOCKETS Internal	4	09-May-23	13-May-23	08-Jan-24	11-Jan-24	0%	
P4ELTFFPI1	WIRING FOR UPS POWER SOCKETS Interemal	4	09-May-23	13-May-23	08-Jan-24	11-Jan-24	0%	
P4ELTFFPI1	SWITCH CONTROLLED	2	10-May-23	13-May-23	09-Jan-24	11-Jan-24	0%	
P4ELTFFPI1	INSTALLATION OF GI WALL BOXES	6	10-May-23	17-May-23	09-Jan-24	15-Jan-24	0%	
P4ELTFFPI1	INSTALLATION OF SWITCHES,SOCKETS	4	10-May-23	15-May-23	09-Jan-24	12-Jan-24	0%	
P4ELTFFPI2	LIFT WIRING	4	10-May-23	15-May-23	09-Jan-24	12-Jan-24	0%	
P4ELTFFPI2	LIFT INSTALLATION WITH ASSOCIATED ACCESSORIES	5	11-May-23	17-May-23	10-Jan-24	15-Jan-24	0%	
P4ELTFFPI2	FIRE ALARM AND DETECTION SYSTEM	4	12-May-23	17-May-23	11-Jan-24	15-Jan-24	0%	
P4ELTFFPI2	Public Address System	4	13-May-23	18-May-23	03-Jun-24	06-Jun-24	0%	
P4ELTFFPI2	Installation of Solar Panels	3	16-May-23	19-May-23	05-Jun-24	07-Jun-24	0%	
P4ELTFFPI2	Installation Of Building Management System	2	13-May-23	16-May-23	03-Jun-24	04-Jun-24	0%	
P4ELTFFPI2	Complete Of Electrical Works	1	19-May-23	20-May-23	08-Jun-24	08-Jun-24	0%	
HVAC Works		18	06-May-23	25-May-23	03-Feb-24	24-Feb-24		
F4HVMABT	Installation Of Units	15	06-May-23	24-May-23	07-Feb-24	23-Feb-24	0%	
F4HVMABT	Installation Of Tray	2	13-May-23	16-May-23	03-Feb-24	07-Feb-24	0%	
F4HVMABT	Installation Of copper Pipe with Insulation	2	13-May-23	16-May-23	03-Feb-24	07-Feb-24	0%	
F4HVMABT	Installation Of Ductig	3	13-May-23	17-May-23	03-Feb-24	07-Feb-24	0%	
F4HVMABT	Complete Of HVAC Works	1	24-May-23	25-May-23	24-Feb-24	24-Feb-24	0%	
Fire Fighting Works		10	06-May-23	19-May-23	30-Jan-24	12-Feb-24		
P4FFTFPPI4	Installation Of Fire Pump and accessories.	8	06-May-23	16-May-23	30-Jan-24	08-Feb-24	0%	
P4FFTFPPI4	Installation Of Fire pipe & Hydrant system	6	06-May-23	13-May-23	30-Jan-24	06-Feb-24	0%	
P4FFTFPPI4	Fire panel Installation	4	13-May-23	18-May-23	06-Feb-24	10-Feb-24	0%	
P4FFTFPPI4	Completion Of Fire Fighting Works	1	18-May-23	19-May-23	10-Feb-24	12-Feb-24	0%	
Food Plaza- 01 Overhead tank / LMR Level		55	25-Apr-23	30-Jun-23	22-Nov-23	27-Jan-24		
Civil works for Main Admin Building & CCC Over Head Tank/ LMR Level		45	25-Apr-23	19-Jun-23	22-Nov-23	15-Jan-24		
P4CHTFPI1000	Bottom Slab	10	25-Apr-23	08-May-23	22-Nov-23	04-Dec-23	0%	
P4CHTFPI1010	Tank Walls	10	11-May-23	23-May-23	06-Dec-23	18-Dec-23	0%	
P4CHTFPI1020	Tank Fittings Installation	8	25-May-23	03-Jun-23	21-Dec-23	01-Jan-24	0%	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4CHTFPI1030	Internal Plastering	10	03-Jun-23	15-Jun-23	01-Jan-24	12-Jan-24	0%
P4CHTFPI1040	External Plastering	2	03-Jun-23	06-Jun-23	01-Jan-24	02-Jan-24	0%
P4CHTFPI1050	Top Slab	2	15-Jun-23	19-Jun-23	12-Jan-24	15-Jan-24	0%
MEP works for Main Admin Building & CCC Over Head Tank/ LMR Level		10	19-Jun-23	30-Jun-23	15-Jan-24	27-Jan-24	
P4CMEP3020	Installation of First Fix	6	19-Jun-23	24-Jun-23	15-Jan-24	22-Jan-24	0%
P4CMEP3030	Installation of Second Fix	4	24-Jun-23	30-Jun-23	22-Jan-24	27-Jan-24	0%
Access Roads To Main Road (Drive ways)		41	11-May-23	28-Jun-23	23-Nov-23	11-Jan-24	
P4ARFPI1000	TS Marking and Surveying	2	11-May-23	13-May-23	23-Nov-23	25-Nov-23	0%
P4ARFPI1010	Excavation of Hard Rock	10	13-May-23	25-May-23	25-Nov-23	07-Dec-23	0%
P4ARFPI1020	Sub Grade Laying	10	18-May-23	30-May-23	30-Nov-23	12-Dec-23	0%
P4ARFPI1030	Watering & Compaction	6	24-May-23	31-May-23	06-Dec-23	13-Dec-23	0%
P4ARFPI1040	GSB Laying	6	27-May-23	03-Jun-23	09-Dec-23	16-Dec-23	0%
P4ARFPI1050	DLC	8	03-Jun-23	13-Jun-23	16-Dec-23	27-Dec-23	0%
P4ARFPI1060	Separation Membrane	3	13-Jun-23	16-Jun-23	27-Dec-23	30-Dec-23	0%
P4ARFPI1070	Providing PQC	10	16-Jun-23	28-Jun-23	30-Dec-23	11-Jan-24	0%
Food plaza- 02		582	10-Oct-22	13-Jul-23	26-Nov-22 A	10-Jun-24	
Food Plaza- 02 Foundation Work		60	10-Oct-22	19-Dec-22	26-Nov-22 A	02-May-23 A	
P4CFFPII1010	TS Survey and Marking	2	10-Oct-22	12-Oct-22	26-Nov-22 A	28-Nov-22 A	100%
P4CFFPII1020	Excavation	8	12-Oct-22	21-Oct-22	28-Nov-22 A	10-Feb-23 A	100%
P4CFFPII1030	PCC	5	21-Oct-22	28-Oct-22	12-Feb-23 A	02-Mar-23 A	100%
P4CFFPII1040	Foundation Reinforcement	5	28-Oct-22	03-Nov-22	03-Mar-23 A	19-Mar-23 A	100%
P4CFFPII1050	Foundation Shuttering	5	03-Nov-22	08-Nov-22	07-Mar-23 A	26-Mar-23 A	100%
P4CFFPII1060	Foundation Casting	4	09-Nov-22	14-Nov-22	21-Mar-23 A	31-Mar-23 A	100%
P4CFFPII1070	Plinth Beam Reinforcement	4	14-Nov-22	18-Nov-22	01-Apr-23 A	10-Apr-23 A	100%
P4CFFPII1080	Plint Beam Shuttering	6	18-Nov-22	25-Nov-22	05-Apr-23 A	12-Apr-23 A	100%
P4CFFPII1090	Plinth Beam Casting	6	25-Nov-22	02-Dec-22	08-Apr-23 A	16-Apr-23 A	100%
P4CFFPII1100	Backfilling with Murram	6	02-Dec-22	09-Dec-22	17-Apr-23 A	26-Apr-23 A	100%
P4CFFPII1110	Compaction	3	10-Dec-22	14-Dec-22	20-Apr-23 A	28-Apr-23 A	100%
P4CFFPII1120	PCC of Plinth Floor	4	14-Dec-22	19-Dec-22	28-Apr-23 A	02-May-23 A	100%
Food Plaza- 02 Ground Floor		516	19-Dec-22	02-May-23	03-May-23 A	01-Jun-24	
Civil works for Food Plaza- 02 Ground Floor		342	19-Dec-22	28-Feb-23	03-May-23 A	07-Nov-23	
P4CGFFPII10C	Column Reinforcement	6	19-Dec-22	26-Dec-22	03-May-23 A	17-May-23 A	100%
P4CGFFPII101	Column Shuttering	6	27-Dec-22	03-Jan-23	06-May-23 A	25-May-23 A	100%
P4CGFFPII102	Column Casting	8	28-Dec-22	06-Jan-23	13-May-23 A	05-Jun-23 A	100%
P4CGFFPII103	Shuttering of Roof Slab & Roof Beam	8	06-Jan-23	16-Jan-23	06-Jun-23 A	15-Jul-23 A	100%
P4CGFFPII104	Reinforcement of Roof Slab & Roof Beam	8	16-Jan-23	25-Jan-23	23-Jun-23 A	23-Jul-23 A	100%
P4CGFFPII105	Casting of Roof Slab & Roof Beam	1	25-Jan-23	27-Jan-23	25-Jul-23 A	25-Jul-23 A	100%
P4CGFFPII106	Brickwork	6	03-Feb-23	10-Feb-23	20-Aug-23 A	01-Nov-23	50%
P4CGFFPII107	Internal Plastering	6	10-Feb-23	17-Feb-23	25-Aug-23 A	02-Nov-23	35%
P4CGFFPII108	External Plastering	6	10-Feb-23	17-Feb-23	28-Oct-23	04-Nov-23	0%
P4CGFFPII109	Internal Painting	8	16-Feb-23	27-Feb-23	28-Oct-23	07-Nov-23	0%
P4CGFFPII110	Doors and Windows Framework	4	03-Feb-23	08-Feb-23	28-Oct-23	02-Nov-23	0%
P4CGFFPII111	Staircase Work	5	10-Feb-23	16-Feb-23	28-Oct-23	03-Nov-23	0%
P4CGFFPII112	Tile Fixing	5	10-Feb-23	16-Feb-23	28-Oct-23	03-Nov-23	0%
P4CGFFPII113	Doors and Windows Fixing	4	08-Feb-23	13-Feb-23	02-Nov-23	07-Nov-23	0%
P4CGFFPII114	Water Proofing of Wet Area	4	10-Feb-23	15-Feb-23	28-Oct-23	02-Nov-23	0%
P4CGFFPII115	Completion of Civil Activities at Ground Floor	1	27-Feb-23	28-Feb-23	07-Nov-23	07-Nov-23	0%
MEP works for Food Plaza-02 Ground Floor		516	27-Mar-23	02-May-23	02-Sep-23 A	01-Jun-24	
Electrical Works		516	27-Mar-23	02-May-23	02-Sep-23 A	01-Jun-24	
P4ELGFFP2	CONDUT,CABLE & CABLE TRAY INSTALLATION	10	27-Mar-23	08-Apr-23	02-Sep-23 A	19-Jan-24	20%
P4ELGFFP2	MCCB,SFU,MCB,ISOLATOR box	3	05-Apr-23	10-Apr-23	11-Jan-24	15-Jan-24	0%



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4ELGFFP2	INSTALLATION OF GI WALL BOXES	2	06-Apr-23	10-Apr-23	08-Sep-23 A	13-Jan-24	10%	
P4ELGFFP2	WIRING FOR POWER & AC SOCKETS Internal	11	10-Apr-23	24-Apr-23	13-Jan-24	29-Jan-24	0%	
P4ELGFFP2	WIRING FOR UPS POWER SOCKETS Internal	6	11-Apr-23	17-Apr-23	15-Jan-24	22-Jan-24	0%	
P4ELGFFP2	LIGHTING & POWER DISTRIBUTION BOARD	2	10-Apr-23	12-Apr-23	13-Jan-24	17-Jan-24	0%	
P4ELGFFP2	LIGHT FITTINGS	2	12-Apr-23	15-Apr-23	17-Jan-24	19-Jan-24	0%	
P4ELGFFP2	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	12-Apr-23	20-Apr-23	17-Jan-24	24-Jan-24	0%	
P4ELGFFP2	INSTALLATION OF SWITCHES, SOCKETS	2	11-Apr-23	13-Apr-23	15-Jan-24	18-Jan-24	0%	
P4ELGFFP2	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	4	17-Apr-23	21-Apr-23	20-Jan-24	25-Jan-24	0%	
P4ELGFFP2	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	8	20-Apr-23	02-May-23	24-Jan-24	03-Feb-24	0%	
P4ELGFFP2	Public Address System Including Cable Laying & Speaker Installation	3	17-Apr-23	21-Apr-23	22-Jan-24	25-Jan-24	0%	
P4ELGFFP2	Light Protection & Earthing	4	15-Apr-23	20-Apr-23	28-May-24	01-Jun-24	0%	
P4ELGFFP2	Intallation Of Bms Equipments	10	08-Apr-23	20-Apr-23	20-Feb-24	02-Mar-24	0%	
P4ELGFFP2	Complete Of Electrical Works	1	02-May-23	02-May-23	31-May-24	01-Jun-24	0%	
HVAC Works		411	08-Apr-23	02-May-23	25-Sep-23 A	12-Feb-24		
P4HVFP1F1	Installation Of Units	4	18-Apr-23	24-Apr-23	25-Sep-23 A	27-Jan-24	5%	
P4HVFP1F1	Installation Of Tray	2	08-Apr-23	11-Apr-23	25-Sep-23 A	23-Jan-24	5%	
P4HVFP1F1	Installation Of copper Pipe with Insulation	4	08-Apr-23	13-Apr-23	20-Jan-24	24-Jan-24	0%	
P4HVFP1F1	Installation Of Ducting	8	08-Apr-23	18-Apr-23	25-Sep-23 A	30-Jan-24	0%	
P4HVFP1F1	Installation Of Ducting Insulation	6	18-Apr-23	26-Apr-23	25-Sep-23 A	07-Feb-24	0%	
P4HVFP1F1	Installation Of Communication Cable	1	26-Apr-23	27-Apr-23	07-Feb-24	08-Feb-24	0%	
P4HVFP1F1	Installation Of Drain pipe Insulation	2	27-Apr-23	29-Apr-23	08-Feb-24	10-Feb-24	0%	
P4HVFP1F1	Complete Of HVAC Works	1	29-Apr-23	02-May-23	10-Feb-24	12-Feb-24	0%	
Fire Fighting Works		18	10-Apr-23	02-May-23	09-Feb-24	01-Mar-24		
P4FFGFFFF	Installation Fire pipe & Hydrant system including support structure	16	10-Apr-23	28-Apr-23	09-Feb-24	28-Feb-24	0%	
P4FFGFFFF	Pressure Testing	7	15-Apr-23	24-Apr-23	15-Feb-24	23-Feb-24	0%	
P4FFGFFFF	Installation of Potable Fire Extinguisher	5	25-Apr-23	29-Apr-23	23-Feb-24	29-Feb-24	0%	
P4FFGFFFF	Complete OF Fire Fighting Works	1	02-May-23	02-May-23	29-Feb-24	01-Mar-24	0%	
Food Plaza- 02 First Floor		475	09-Feb-23	26-May-23	26-Jul-23 A	06-Jun-24		
Civil works for Food Plaza- 02 First Floor		326	09-Feb-23	29-Apr-23	26-Jul-23 A	13-Dec-23		
P4CFFFP1100	Column Reinforcement	6	09-Feb-23	16-Feb-23	26-Jul-23 A	04-Aug-23 A	100%	
P4CFFFP1101	Column Shuttering	10	10-Feb-23	23-Feb-23	29-Jul-23 A	06-Aug-23 A	100%	
P4CFFFP1102	Column Casting	10	23-Feb-23	07-Mar-23	31-Jul-23 A	09-Aug-23 A	100%	
P4CFFFP1103	Shuttering of Roof Slab & Roof Beam	10	25-Feb-23	09-Mar-23	05-Aug-23 A	21-Aug-23 A	100%	
P4CFFFP1104	Reinforcement of Roof Slab & Roof Beam	6	01-Mar-23	08-Mar-23	25-Aug-23 A	14-Sep-23 A	100%	
P4CFFFP1105	Casting of Roof Slab & Roof Beam	1	08-Mar-23	09-Mar-23	15-Sep-23 A	15-Sep-23 A	100%	
P4CFFFP1106	Brickwork	10	16-Mar-23	28-Mar-23	28-Oct-23	09-Nov-23	0%	
P4CFFFP1107	Internal Plastering	10	22-Mar-23	03-Apr-23	03-Nov-23	18-Nov-23	0%	
P4CFFFP1108	External Plastering	10	03-Apr-23	15-Apr-23	18-Nov-23	30-Nov-23	0%	
P4CFFFP1109	Internal Painting	10	15-Apr-23	28-Apr-23	30-Nov-23	12-Dec-23	0%	
P4CFFFP1110	Doors and Windows Framework	8	16-Mar-23	25-Mar-23	28-Oct-23	07-Nov-23	0%	
P4CFFFP1111	Staircase Work	6	22-Mar-23	29-Mar-23	03-Nov-23	10-Nov-23	0%	
P4CFFFP1112	Tile Fixing	10	28-Mar-23	10-Apr-23	09-Nov-23	24-Nov-23	0%	
P4CFFFP1113	Doors and Windows Fixing	10	25-Mar-23	06-Apr-23	07-Nov-23	22-Nov-23	0%	
P4CFFFP1114	Water Proofing of Wet Area	10	10-Apr-23	21-Apr-23	24-Nov-23	06-Dec-23	0%	
P4CFFFP1115	Completion of Civil Activities at First Floor	1	28-Apr-23	29-Apr-23	12-Dec-23	13-Dec-23	0%	
MEP works for Food Plaza-02 First Floor		423	21-Apr-23	26-May-23	29-Aug-23 A	06-Jun-24		
Electrical Works		423	21-Apr-23	26-May-23	29-Aug-23 A	06-Jun-24		
P4ELFFFP2	CONDUT,CABLE & CABLE TRAY INSTALLATION	11	21-Apr-23	06-May-23	29-Aug-23 A	31-Jan-24	30%	
P4ELFFFP2	MCCB,SFU,MCB,ISOLATOR box	3	26-Apr-23	29-Apr-23	20-Jan-24	24-Jan-24	0%	
P4ELFFFP2	INSTALLATION OF GI WALL BOXES	2	27-Apr-23	29-Apr-23	22-Jan-24	24-Jan-24	0%	
P4ELFFFP2	WIRING FOR POWER & AC SOCKETS Internal	10	29-Apr-23	12-May-23	24-Jan-24	06-Feb-24	0%	



MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4ELFFFP2	WIRING FOR UPS POWER SOCKETS Internal	6	02-May-23	08-May-23	25-Jan-24	02-Feb-24	0%
P4ELFFFP2	LIGHTING & POWER DISTRIBUTION BOARD	2	29-Apr-23	03-May-23	24-Jan-24	29-Jan-24	0%
P4ELFFFP2	LIGHT FITTINGS	2	03-May-23	06-May-23	29-Jan-24	31-Jan-24	0%
P4ELFFFP2	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	03-May-23	11-May-23	29-Jan-24	05-Feb-24	0%
P4ELFFFP2	INSTALLATION OF SWITCHES, SOCKETS	2	02-May-23	04-May-23	25-Jan-24	29-Jan-24	0%
P4ELFFFP2	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	10	04-May-23	16-May-23	29-Jan-24	09-Feb-24	0%
P4ELFFFP2	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	08-May-23	15-May-23	01-Feb-24	08-Feb-24	0%
P4ELFFFP2	Public Address System Including Cable Laying & Speaker Installation	3	08-May-23	12-May-23	03-Jun-24	06-Jun-24	0%
P4ELFFFP2	Light Protection & Earthing	10	15-May-23	26-May-23	08-Feb-24	20-Feb-24	0%
P4ELFFFP2	Installation Of Bms System	4	17-May-23	22-May-23	01-Mar-24	06-Mar-24	0%
P4ELFFFP2	Complete Of Electrical Works	1	26-May-23	26-May-23	06-Jun-24	06-Jun-24	0%
HVAC Works		16	03-May-23	22-May-23	31-Jan-24	19-Feb-24	
P4HVFP2F	Installation Of Units	10	03-May-23	15-May-23	07-Feb-24	17-Feb-24	0%
P4HVFP2F	Installation Of Tray	2	06-May-23	09-May-23	31-Jan-24	02-Feb-24	0%
P4HVFP2F	Installation Of copper Pipe with Insulation	2	06-May-23	09-May-23	31-Jan-24	02-Feb-24	0%
P4HVFP2F	Installation Of Communication Cable	2	09-May-23	12-May-23	02-Feb-24	06-Feb-24	0%
P4HVFP2F	Installation Of Drain pipe Insulation	7	12-May-23	20-May-23	06-Feb-24	14-Feb-24	0%
P4HVFP2F	Complete Of HVAC Works	1	20-May-23	22-May-23	19-Feb-24	19-Feb-24	0%
Fire Fighting Works		20	25-Apr-23	19-May-23	30-Jan-24	23-Feb-24	
P4FFFFFP	Installation Fire pipe & Hydrant system including support structure	10	25-Apr-23	08-May-23	30-Jan-24	10-Feb-24	0%
P4FFFFFP	Pressure Testing	2	08-May-23	09-May-23	10-Feb-24	13-Feb-24	0%
P4FFFFFP	Installation of Potable Fire Extinguisher	8	09-May-23	18-May-23	13-Feb-24	22-Feb-24	0%
P4FFFFFP	Complete OF Fire Fighting Works	1	18-May-23	19-May-23	22-Feb-24	23-Feb-24	0%
Food Plaza- 02 External Painting		20	17-May-23	09-Jun-23	30-Dec-23	23-Jan-24	
P4EPFPII1000	External Painting	20	17-May-23	09-Jun-23	30-Dec-23	23-Jan-24	0%
Food Plaza-02 Terrace Floor		182	01-Apr-23	15-Jun-23	06-Nov-23	10-Jun-24	
Civil works for Food Plaza- 02 Terrace Floor		68	01-Apr-23	15-Jun-23	06-Nov-23	30-Jan-24	
P4CTFFPII100	Stub Column Casting	10	01-Apr-23	14-Apr-23	06-Nov-23	21-Nov-23	0%
P4CTFFPII102	Parapet Wall & Roff Slab	6	14-Apr-23	21-Apr-23	21-Nov-23	28-Nov-23	0%
P4CTFFPII103	Plastering of Parapet Wall	8	25-Apr-23	05-May-23	29-Nov-23	08-Dec-23	0%
P4CTFFPII104	Painting of Parapet Wall	4	09-Jun-23	14-Jun-23	23-Jan-24	29-Jan-24	0%
P4CTFFPII105	Complete OF External Works	1	14-Jun-23	15-Jun-23	29-Jan-24	30-Jan-24	0%
MEP works for Food Plaza- 02 Terrace Floor		165	24-Apr-23	30-May-23	29-Nov-23	10-Jun-24	
Electrical Works		165	24-Apr-23	30-May-23	29-Nov-23	10-Jun-24	
P4FFTFPP2	CONDUIT LAYING	11	05-May-23	18-May-23	04-Jan-24	16-Jan-24	0%
P4FFTFPP2	MCCB,SFU,MCB,ISOLATOR box	2	02-May-23	04-May-23	06-Dec-23	08-Dec-23	0%
P4FFTFPP2	LIGHTING & POWER DISTRIBUTION BOARD	2	28-Apr-23	02-May-23	02-Dec-23	05-Dec-23	0%
P4FFTFPP2	LIGHT FITTINGS	3	04-May-23	08-May-23	08-Dec-23	12-Dec-23	0%
P4FFTFPP2	WIRING FOR POWER & AC SOCKETS Internal	4	26-Apr-23	02-May-23	01-Dec-23	05-Dec-23	0%
P4FFTFPP2	WIRING FOR UPS POWER SOCKETS Internal	4	25-Apr-23	29-Apr-23	30-Nov-23	04-Dec-23	0%
P4FFTFPP2	SWITCH CONTROLLED	3	09-May-23	12-May-23	13-Dec-23	16-Dec-23	0%
P4FFTFPP2	INSTALLATION OF GI WALL BOXES	2	24-Apr-23	26-Apr-23	29-Nov-23	30-Nov-23	0%
P4FFTFPP2	INSTALLATION OF SWITCHES, SOCKETS	2	08-May-23	10-May-23	12-Dec-23	14-Dec-23	0%
P4FFTFPP2	LIFT WIRING	6	10-May-23	17-May-23	14-Dec-23	20-Dec-23	0%
P4FFTFPP2	LIFT INSTALLATION WITH ASSOCIATED ACCESSORIES	10	17-May-23	29-May-23	20-Dec-23	02-Jan-24	0%
P4FFTFPP2	FIRE ALARM AND DETECTION SYSTEM	2	09-May-23	11-May-23	08-Jan-24	09-Jan-24	0%
P4FFTFPP2	Public Address System	2	08-May-23	10-May-23	03-Jun-24	04-Jun-24	0%
P4FFTFPP2	Installation Of Bms	4	10-May-23	15-May-23	05-Jun-24	08-Jun-24	0%
P4FFTFPP2	Complete OF Electrical Works	1	29-May-23	30-May-23	10-Jun-24	10-Jun-24	0%
HVAC Works		37	08-May-23	20-May-23	06-Jan-24	19-Feb-24	
P4HVFP2T	Installation Of Units	10	08-May-23	19-May-23	07-Feb-24	17-Feb-24	0%

MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4HVFP2TF	Installation Of Tray	2	08-May-23	11-May-23	06-Jan-24	09-Jan-24	0%
P4HVFP2TF	Installation Of copper Pipe with Insullation	2	11-May-23	13-May-23	07-Feb-24	09-Feb-24	0%
P4HVFP2TF	Installation Of Ductig	3	11-May-23	15-May-23	09-Jan-24	12-Jan-24	0%
P4HVFP2TF	Complete OF HVAC Works	1	19-May-23	20-May-23	19-Feb-24	19-Feb-24	0%
Fire Fighting Works		16	06-May-23	26-May-23	05-Jan-24	24-Jan-24	
P4FFTFP2	Installation Fire pipe & Hydrant system	6	06-May-23	13-May-23	05-Jan-24	11-Jan-24	0%
P4FFTFP2	Installation of Fire Pump and accessories	6	13-May-23	20-May-23	12-Jan-24	18-Jan-24	0%
P4FFTFP2	Installation Fire panel	4	20-May-23	25-May-23	18-Jan-24	23-Jan-24	0%
P4FFTFP2	Complete OF Fire Fighting Works	1	25-May-23	26-May-23	23-Jan-24	24-Jan-24	0%
Food Plaza- 02 Overhead tank / LMR Level		34	27-Apr-23	07-Jun-23	02-Dec-23	11-Jan-24	
Civil & Plumbing works for Main Admin Building & CCC Over Head Tank/ LMR Level		34	27-Apr-23	07-Jun-23	02-Dec-23	11-Jan-24	
P4CHTFPII10C	Bottom Slab	10	27-Apr-23	10-May-23	02-Dec-23	14-Dec-23	0%
P4CHTFPII101	Tank Walls	6	13-May-23	20-May-23	16-Dec-23	23-Dec-23	0%
P4CHTFPII102	Tank Fittings Installation	6	23-May-23	30-May-23	28-Dec-23	03-Jan-24	0%
P4CHTFPII103	Internal Plastering	3	30-May-23	02-Jun-23	04-Jan-24	06-Jan-24	0%
P4CHTFPII104	External Plastering	2	30-May-23	01-Jun-23	04-Jan-24	05-Jan-24	0%
P4CHTFPII105	Top Slab	3	02-Jun-23	06-Jun-23	08-Jan-24	10-Jan-24	0%
P4CHTFPII106	Complete OF Plumbing Works	1	06-Jun-23	07-Jun-23	11-Jan-24	11-Jan-24	0%
Access Roads To Main Road (Drive ways)		46	13-May-23	13-Jul-23	20-Dec-23	14-Feb-24	
P4ARFPII1000	TS Marking and Surveying	2	13-May-23	16-May-23	20-Dec-23	22-Dec-23	0%
P4ARFPII1010	Excavation of Hard Rock	10	16-May-23	27-May-23	22-Dec-23	04-Jan-24	0%
P4ARFPII1020	Sub Grade Laying	10	20-May-23	01-Jun-23	28-Dec-23	09-Jan-24	0%
P4ARFPII1030	Watering & Compaction	10	22-May-23	02-Jun-23	29-Dec-23	10-Jan-24	0%
P4ARFPII1040	GSB Laying	10	25-May-23	06-Jun-23	02-Jan-24	13-Jan-24	0%
P4ARFPII1050	DLC	10	06-Jun-23	17-Jun-23	13-Jan-24	25-Jan-24	0%
P4ARFPII1060	Separation Membrane	1	17-Jun-23	19-Jun-23	25-Jan-24	27-Jan-24	0%
P4ARFPII1070	Providing PQC	15	19-Jun-23	13-Jul-23	27-Jan-24	14-Feb-24	0%
Landscaping including landscaping for future expansion area		30	03-Jun-23	18-Jul-23	11-Jan-24	16-Feb-24	
P4CLS1010	Landscaping Work	30	03-Jun-23	18-Jul-23	11-Jan-24	16-Feb-24	0%
Construction Works at Shivaji Nagar side		670	22-Aug-22	10-Aug-23	18-Sep-22 A	13-Jun-24	
Sub Admin Building and Command Control Centre at (G+1)		577	18-Oct-22	28-Jun-23	18-Sep-22 A	13-Jun-24	
Sub Admin Building and CCC (G+1) Foundation Work		39	18-Oct-22	03-Dec-22	04-Jan-23 A	05-May-23 A	
P4CSABF1010	Total Station Survey and Marking	1	18-Oct-22	19-Oct-22	04-Jan-23 A	07-Jan-23 A	100%
P4CSABF1020	Excavation	7	19-Oct-22	28-Oct-22	08-Jan-23 A	03-Feb-23 A	100%
P4CSABF1030	PCC	3	28-Oct-22	01-Nov-22	04-Feb-23 A	08-Feb-23 A	100%
P4CSABF1040	Foundation Reinforcement	3	01-Nov-22	04-Nov-22	10-Feb-23 A	20-Feb-23 A	100%
P4CSABF1050	Foundation Shuttering	5	04-Nov-22	10-Nov-22	11-Feb-23 A	21-Feb-23 A	100%
P4CSABF1060	Foundation Casting	4	10-Nov-22	15-Nov-22	23-Feb-23 A	27-Feb-23 A	100%
P4CSABF1070	Plinth Beam Reinforcement	4	15-Nov-22	19-Nov-22	28-Feb-23 A	03-Mar-23 A	100%
P4CSABF1080	Plint Beam Shuttering	2	19-Nov-22	22-Nov-22	02-Mar-23 A	06-Mar-23 A	100%
P4CSABF1090	Plinth Beam Casting	2	22-Nov-22	24-Nov-22	03-Mar-23 A	26-Mar-23 A	100%
P4CSABF1100	Backfilling with Murram	3	24-Nov-22	28-Nov-22	25-Mar-23 A	31-Mar-23 A	100%
P4CSABF1110	Compaction	2	29-Nov-22	01-Dec-22	01-Apr-23 A	05-Apr-23 A	100%
P4CSABF1120	Grade Slab	2	01-Dec-22	03-Dec-22	30-Apr-23 A	05-May-23 A	100%
Sub Admin Building and Command Control Centre at Ground Floor		566	05-Dec-22	02-May-23	18-Sep-22 A	06-Jun-24	
Civil works for Sub Admin Building and Command Control Centre at Ground Floor		408	05-Dec-22	21-Jan-23	18-Sep-22 A	02-Dec-23	
P4CSABGF1000	Column Reinforcement	5	05-Dec-22	10-Dec-22	10-May-23 A	15-Jun-23 A	100%
P4CSABGF1010	Column Shutterig	3	10-Dec-22	14-Dec-22	15-May-23 A	22-Jun-23 A	100%
P4CSABGF1020	Column Casting	2	14-Dec-22	16-Dec-22	20-Jun-23 A	30-Jun-23 A	100%
P4CSABGF1030	Shuttering of Roof Slab & Roof Beam	4	16-Dec-22	21-Dec-22	20-Aug-23 A	12-Sep-23 A	100%

MUMBAI TRANS HARBOUR LINK

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GENERAL CONSULTANT



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4CSABGF1040	Reinforcement of Roof Slab & Roof Beam	4	21-Dec-22	26-Dec-22	27-Aug-23 A	16-Sep-23 A	100%	
P4CSABGF1050	Casting of Roof Slab & Roof Beam	1	26-Dec-22	27-Dec-22	18-Sep-22 A	18-Sep-23 A	100%	
P4CSABGF1060	Blockwork	6	03-Jan-23	10-Jan-23	10-Nov-23	20-Nov-23	0%	
P4CSABGF1070	Internal Plastering	6	06-Jan-23	13-Jan-23	17-Nov-23	23-Nov-23	0%	
P4CSABGF1080	External Plastering	4	09-Jan-23	13-Jan-23	20-Nov-23	24-Nov-23	0%	
P4CSABGF1090	Internal Painting	4	12-Jan-23	17-Jan-23	23-Nov-23	28-Nov-23	0%	
P4CSABGF1100	Doors and Windows Framework	4	03-Jan-23	07-Jan-23	10-Nov-23	17-Nov-23	0%	
P4CSABGF1110	Staircase Work	4	09-Jan-23	13-Jan-23	20-Nov-23	24-Nov-23	0%	
P4CSABGF1120	Tile Fixing	4	07-Jan-23	12-Jan-23	17-Nov-23	22-Nov-23	0%	
P4CSABGF1130	Doors and Windows Fixing	4	07-Jan-23	12-Jan-23	18-Nov-23	22-Nov-23	0%	
P4CSABGF1140	Water Proofing of Wet Area	4	06-Jan-23	11-Jan-23	17-Nov-23	21-Nov-23	0%	
P4CSABGF1150	Completion of Civil Activities at Ground Floor	4	17-Jan-23	21-Jan-23	28-Nov-23	02-Dec-23	0%	
MEP works for Sub Admin Building and Command Control Centre at Ground Floor		126	27-Mar-23	02-May-23	11-Jan-24	06-Jun-24		
Electrical Works		126	27-Mar-23	20-Apr-23	11-Jan-24	06-Jun-24		
P4ELSABGF10	CONDUIT,CABLE & CABLE TRAY INSTALLATION	8	27-Mar-23	05-Apr-23	11-Jan-24	19-Jan-24	0%	
P4ELSABGF11	MCCB,SFU,MCB,ISOLATOR box	3	29-Mar-23	01-Apr-23	13-Jan-24	17-Jan-24	0%	
P4ELSABGF11	INSTALLATION OF GI WALL BOXES	2	30-Mar-23	01-Apr-23	13-Jan-24	17-Jan-24	0%	
P4ELSABGF11	WIRING FOR POWER & AC SOCKETS Internal	10	01-Apr-23	14-Apr-23	17-Jan-24	30-Jan-24	0%	
P4ELSABGF11	WIRING FOR UPS POWER SOCKETS Internal	6	03-Apr-23	10-Apr-23	18-Jan-24	24-Jan-24	0%	
P4ELSABGF12	LIGHTING & POWER DISTRIBUTION BOARD	2	01-Apr-23	04-Apr-23	17-Jan-24	19-Jan-24	0%	
P4ELSABGF13	LIGHT FITTINGS	2	04-Apr-23	08-Apr-23	19-Jan-24	22-Jan-24	0%	
P4ELSABGF16	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	04-Apr-23	13-Apr-23	19-Jan-24	27-Jan-24	0%	
P4ELSABGF18	INSTALLATION OF SWITCHES,SOCKETS	2	03-Apr-23	05-Apr-23	18-Jan-24	20-Jan-24	0%	
P4ELSABGF19	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	6	04-Apr-23	12-Apr-23	19-Jan-24	27-Jan-24	0%	
P4ELSABGF20	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	06-Apr-23	14-Apr-23	22-Jan-24	29-Jan-24	0%	
P4ELSABGF21	Public Address System Including Cable Laying & Speaker Installation	3	13-Apr-23	17-Apr-23	03-Jun-24	06-Jun-24	0%	
P4ELSABGF22	Light Protection & Earthing	3	14-Apr-23	18-Apr-23	29-Jan-24	01-Feb-24	0%	
P4ELSABGF24	Installation Of BMS System	4	15-Apr-23	20-Apr-23	01-Mar-24	06-Mar-24	0%	
P4ELSABGF25	Complete Of Electrical Works	1	20-Apr-23	20-Apr-23	06-Jun-24	06-Jun-24	0%	
HVAC Works		18	08-Apr-23	02-May-23	13-Jan-24	03-Feb-24		
J4HVMBABGF2	Installation Of Units	5	08-Apr-23	14-Apr-23	13-Jan-24	18-Jan-24	0%	
J4HVMBABGF2	Installation Of Tray	5	14-Apr-23	20-Apr-23	18-Jan-24	24-Jan-24	0%	
J4HVMBABGF2	Installation Of copper Pipe with Insulation	8	14-Apr-23	25-Apr-23	18-Jan-24	29-Jan-24	0%	
J4HVMBABGF2	Installation Of Ducting	5	14-Apr-23	20-Apr-23	18-Jan-24	24-Jan-24	0%	
J4HVMBABGF2	Installation Of Ducting Insulation	1	20-Apr-23	21-Apr-23	24-Jan-24	25-Jan-24	0%	
J4HVMBABGF2	Installation Of Drain pipe Insulation	4	25-Apr-23	29-Apr-23	29-Jan-24	02-Feb-24	0%	
J4HVMBABGF2	Complete Of HVAC Works	1	29-Apr-23	02-May-23	02-Feb-24	03-Feb-24	0%	
Fire Fighting Works		18	03-Apr-23	25-Apr-23	30-Jan-24	20-Feb-24		
P4FFSABGF42	Installation Fire pipe & Hydrant system including support structure	10	03-Apr-23	14-Apr-23	30-Jan-24	10-Feb-24	0%	
P4FFSABGF43	Pressure Testing	2	15-Apr-23	17-Apr-23	10-Feb-24	13-Feb-24	0%	
P4FFSABGF44	Installation of Potable Fire Extinguisher	6	17-Apr-23	25-Apr-23	13-Feb-24	19-Feb-24	0%	
P4FFSABGF45	Complete Of Fire Fighting Works	1	25-Apr-23	25-Apr-23	20-Feb-24	20-Feb-24	0%	
Sub Admin Building and Command Control Centre at First Floor		565	27-Dec-22	17-May-23	20-Sep-23 A	06-Jun-24		
Civil works for Sub Admin Building and Command Control Centre at First Floor		442	27-Dec-22	08-Mar-23	20-Sep-23 A	13-Jan-24		
P4CSABFF4520	Column Reinforcement	10	27-Dec-22	07-Jan-23	20-Sep-23 A	17-Nov-23	60%	
P4CSABFF4530	Column Shuttering	10	28-Dec-22	09-Jan-23	23-Sep-23 A	20-Nov-23	40%	
P4CSABFF4540	Column Casting	10	31-Dec-22	12-Jan-23	25-Sep-23 A	21-Nov-23	30%	
P4CSABFF4610	Shuttering of Roof Slab & Roof Beam	8	12-Jan-23	21-Jan-23	22-Nov-23	30-Nov-23	0%	
P4CSABFF4620	Reinforcement of Roof Slab & Roof Beam	8	21-Jan-23	01-Feb-23	01-Dec-23	09-Dec-23	0%	
P4CSABFF4630	Casting of Roof Slab & Roof Beam	1	01-Feb-23	02-Feb-23	11-Dec-23	11-Dec-23	0%	
P4CSABFF4640	Blockwork	2	09-Feb-23	11-Feb-23	18-Dec-23	20-Dec-23	0%	

MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4CSABFF4650	Internal Plastering	8	15-Feb-23	25-Feb-23	26-Dec-23	03-Jan-24	0%	
P4CSABFF4660	External Plastering	2	15-Feb-23	20-Feb-23	26-Dec-23	28-Dec-23	0%	
P4CSABFF4665	Internal Painting	10	23-Feb-23	07-Mar-23	01-Jan-24	12-Jan-24	0%	
P4CSABFF4670	Doors and Windows Framework	3	09-Feb-23	13-Feb-23	18-Dec-23	21-Dec-23	0%	
P4CSABFF4680	Staircase Work	2	15-Feb-23	20-Feb-23	26-Dec-23	28-Dec-23	0%	
P4CSABFF4690	Tile Fixing	3	16-Feb-23	21-Feb-23	26-Dec-23	29-Dec-23	0%	
P4CSABFF4700	Doors and Windows Fixing	3	13-Feb-23	16-Feb-23	21-Dec-23	26-Dec-23	0%	
P4CSABFF4710	Water Proofing of Wet Area	2	15-Feb-23	17-Feb-23	26-Dec-23	27-Dec-23	0%	
P4CSABFF4720	Completion of Civil Activities at First Floor	1	07-Mar-23	08-Mar-23	12-Jan-24	13-Jan-24	0%	
MEP works for Sub Admin Building and Command Control Centre at First Floor		118	11-Apr-23	17-May-23	20-Jan-24	06-Jun-24		
Electrical Works		118	11-Apr-23	06-May-23	20-Jan-24	06-Jun-24		
P4ELSABFF10	CONDUIT & CABLE TRAY INSTALLATION	10	11-Apr-23	24-Apr-23	20-Jan-24	02-Feb-24	0%	
P4ELSABFF11	MCCB,SFU,MCB,ISOLATOR box	3	13-Apr-23	17-Apr-23	23-Jan-24	27-Jan-24	0%	
P4ELSABFF11	INSTALLATION OF GI WALL BOXES	2	14-Apr-23	17-Apr-23	24-Jan-24	27-Jan-24	0%	
P4ELSABFF11	WIRING FOR POWER & AC SOCKETS Internal	10	17-Apr-23	29-Apr-23	27-Jan-24	08-Feb-24	0%	
P4ELSABFF11	WIRING FOR UPS POWER SOCKETS Internal	6	18-Apr-23	25-Apr-23	29-Jan-24	05-Feb-24	0%	
P4ELSABFF12	LIGHTING & POWER DISTRIBUTION BOARD	2	17-Apr-23	19-Apr-23	27-Jan-24	31-Jan-24	0%	
P4ELSABFF13	LIGHT FITTINGS	2	19-Apr-23	24-Apr-23	31-Jan-24	02-Feb-24	0%	
P4ELSABFF16	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	19-Apr-23	28-Apr-23	31-Jan-24	07-Feb-24	0%	
P4ELSABFF18	INSTALLATION OF SWITCHES, SOCKETS	2	18-Apr-23	20-Apr-23	29-Jan-24	31-Jan-24	0%	
P4ELSABFF19	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	9	25-Apr-23	06-May-23	03-Feb-24	14-Feb-24	0%	
P4ELSABFF20	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	4	27-Apr-23	03-May-23	06-Feb-24	10-Feb-24	0%	
P4ELSABFF21	Public Address System Including Cable Laying & Speaker Installation	3	25-Apr-23	29-Apr-23	03-Jun-24	06-Jun-24	0%	
P4ELSABFF22	Light Protection & Earthing	4	28-Apr-23	04-May-23	07-Feb-24	12-Feb-24	0%	
P4ELSABFF23	Installation Of BMS System	4	02-May-23	06-May-23	01-Mar-24	06-Mar-24	0%	
P4ELSABFF24	Complete Of Electrical Works	1	06-May-23	06-May-23	06-Jun-24	06-Jun-24	0%	
HVAC Works		12	03-May-23	17-May-23	07-Feb-24	20-Feb-24		
K4HVMABGF2	Installation Of Units	5	03-May-23	09-May-23	07-Feb-24	12-Feb-24	0%	
K4HVMABGF2	Installation Of Tray	5	05-May-23	11-May-23	09-Feb-24	14-Feb-24	0%	
K4HVMABGF2	Installation Of copper Pipe with Insulation	4	05-May-23	10-May-23	09-Feb-24	13-Feb-24	0%	
K4HVMABGF2	Installation Of Ducting	2	05-May-23	09-May-23	09-Feb-24	12-Feb-24	0%	
K4HVMABGF2	Installation Of Ducting Insulation	2	09-May-23	10-May-23	12-Feb-24	13-Feb-24	0%	
K4HVMABGF2	Installation Of Drain pipe Insulation	5	10-May-23	16-May-23	14-Feb-24	19-Feb-24	0%	
K4HVMABGF2	Complete Of HVAC Works	1	16-May-23	17-May-23	19-Feb-24	20-Feb-24	0%	
Fire Fighting Works		15	13-Apr-23	03-May-23	30-Jan-24	16-Feb-24		
P4FFSABFF42	Installation Fire pipe & Hydrant system including support structure	15	13-Apr-23	03-May-23	30-Jan-24	16-Feb-24	0%	
P4FFSABFF43	Pressure Testing	2	15-Apr-23	17-Apr-23	01-Feb-24	03-Feb-24	0%	
P4FFSABFF44	Installation of Potable Fire Extinguisher	6	18-Apr-23	25-Apr-23	03-Feb-24	10-Feb-24	0%	
P4FFSABFF45	Complete Of Fire Fighting Works	1	25-Apr-23	26-Apr-23	10-Feb-24	12-Feb-24	0%	
Sub Admin Building and CCC Facade & External Painting Work		17	03-Mar-23	23-Mar-23	09-Jan-24	30-Jan-24		
P4EPSAB1700	External Painting	16	03-Mar-23	22-Mar-23	09-Jan-24	29-Jan-24	0%	
P4EPSAB1710	Facade Work	15	04-Mar-23	22-Mar-23	11-Jan-24	29-Jan-24	0%	
P4EPSAB1720	Complete All External Works	1	22-Mar-23	23-Mar-23	30-Jan-24	30-Jan-24	0%	
Sub Admin Building and Command Control Centre at Terrace Floor		137	27-Feb-23	24-May-23	04-Jan-24	13-Jun-24		
Civil works for Sub Admin Building and Command Control Centre at Terrace Floor		7	27-Feb-23	07-Mar-23	04-Jan-24	12-Jan-24		
P4CSABTF4750	Parapet Wall Brick Work	1	27-Feb-23	28-Feb-23	04-Jan-24	05-Jan-24	0%	
P4CSABTF4760	Plastering of Parapet Wall	1	01-Mar-23	02-Mar-23	08-Jan-24	08-Jan-24	0%	
P4CSABTF4770	Painting of Parapet Wall	2	04-Mar-23	06-Mar-23	10-Jan-24	12-Jan-24	0%	
P4CSABTF4780	Complete Of Terrace Floor	1	06-Mar-23	07-Mar-23	12-Jan-24	12-Jan-24	0%	
MEP works for Sub Admin Building and Command Control Centre at Terrace Floor		136	28-Feb-23	24-May-23	05-Jan-24	13-Jun-24		
Electrical Works		130	07-Mar-23	26-Apr-23	13-Jan-24	13-Jun-24		



MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4ELSABTF10	CONDUT & CABLE TRAY INSTALLATION	4	11-Apr-23	15-Apr-23	20-Jan-24	25-Jan-24	0%
P4ELSABTF11	MCCB,SFU,MCB,ISOLATOR box	2	11-Mar-23	14-Mar-23	17-Jan-24	19-Jan-24	0%
P4ELSABTF12	LIGHTING & POWER DISTRIBUTION BOARD	2	10-Mar-23	13-Mar-23	16-Jan-24	18-Jan-24	0%
P4ELSABTF13	LIGHT FITTINGS	3	13-Mar-23	16-Mar-23	18-Jan-24	22-Jan-24	0%
P4ELSABTF14	WIRING FOR POWER & AC SOCKETS Internal	4	08-Mar-23	13-Mar-23	15-Jan-24	18-Jan-24	0%
P4ELSABTF15	WIRING FOR UPS POWER SOCKETS External	4	08-Mar-23	13-Mar-23	15-Jan-24	18-Jan-24	0%
P4ELSABTF16	SWITCH CONTROLLED	2	17-Mar-23	20-Mar-23	23-Jan-24	25-Jan-24	0%
P4ELSABTF17	INSTALLATION OF GI WALL BOXES	6	07-Mar-23	14-Mar-23	13-Jan-24	19-Jan-24	0%
P4ELSABTF18	INSTALLATION OF SWITCHES,SOCKETS	4	13-Mar-23	17-Mar-23	18-Jan-24	23-Jan-24	0%
P4ELSABTF19	LIFT WIRING	3	14-Mar-23	17-Mar-23	19-Jan-24	23-Jan-24	0%
P4ELSABTF20	LIFT INSTALLATION WITH ASSOCIATED ACCESSORIES	8	15-Mar-23	24-Mar-23	20-Jan-24	31-Jan-24	0%
P4ELSABTF21	FIRE ALARM AND DETECTION SYSTEM	4	13-Apr-23	18-Apr-23	23-Jan-24	29-Jan-24	0%
P4ELSABTF22	PublicAddress System	4	13-Apr-23	18-Apr-23	03-Jun-24	06-Jun-24	0%
P4ELSABTF23	Installation Of BMS System	7	15-Apr-23	25-Apr-23	05-Jun-24	12-Jun-24	0%
P4ELSABTF24	Complete Of Electrical Works	1	25-Apr-23	26-Apr-23	13-Jun-24	13-Jun-24	0%
HVAC Works		18	03-May-23	24-May-23	07-Feb-24	27-Feb-24	
P4HVFP1TF23	Installation Of Units	12	03-May-23	17-May-23	07-Feb-24	20-Feb-24	0%
P4HVFP1TF24	Installation Of Tray	5	17-May-23	23-May-23	21-Feb-24	26-Feb-24	0%
P4HVFP1TF24	Installation Of copper Pipe with Insulation	2	17-May-23	19-May-23	21-Feb-24	22-Feb-24	0%
P4HVFP1TF24	Installation Of Ductig	4	17-May-23	22-May-23	21-Feb-24	24-Feb-24	0%
P4HVFP1TF24	Installation Of Ducting Insulation	1	22-May-23	23-May-23	26-Feb-24	26-Feb-24	0%
P4HVFP1TF25	Complete Of HVAC Works	1	23-May-23	24-May-23	26-Feb-24	27-Feb-24	0%
Fire Fighting Works		17	28-Feb-23	20-Mar-23	05-Jan-24	25-Jan-24	
P4FFSABTF40	Installation Fire pipe & Hydrant system including support structure	7	28-Feb-23	08-Mar-23	05-Jan-24	13-Jan-24	0%
P4FFSABTF41	Fire Pump and accessories	6	08-Mar-23	14-Mar-23	13-Jan-24	20-Jan-24	0%
P4FFSABTF42	Installation Of Fire Panel With Electrical connection	4	14-Mar-23	18-Mar-23	20-Jan-24	25-Jan-24	0%
P4FFSABTF43	Complete Of Fire Fighting Works	1	18-Mar-23	20-Mar-23	25-Jan-24	25-Jan-24	0%
Sub Admin Building & CCC Over Head Tank/ LMR Level		75	27-Feb-23	28-Jun-23	05-Jan-24	02-Apr-24	
Civil works for Sub Admin Building & CCC Over Head Tank/ LMR Level		15	27-Feb-23	16-Mar-23	05-Jan-24	23-Jan-24	
P4SABHT3180	Bottom Slab	4	27-Feb-23	03-Mar-23	05-Jan-24	09-Jan-24	0%
P4SABHT3190	Tank Walls	2	07-Mar-23	08-Mar-23	12-Jan-24	13-Jan-24	0%
P4SABHT3200	Tank Fittings Installation	1	11-Mar-23	11-Mar-23	17-Jan-24	18-Jan-24	0%
P4SABHT3210	Internal Plastering	1	11-Mar-23	13-Mar-23	18-Jan-24	18-Jan-24	0%
P4SABHT3220	External Plastering	1	11-Mar-23	13-Mar-23	18-Jan-24	18-Jan-24	0%
P4SABHT3230	Top Slab	3	13-Mar-23	16-Mar-23	19-Jan-24	23-Jan-24	0%
P4SABHT3300	Staircase Work	2	08-Mar-23	11-Mar-23	15-Jan-24	17-Jan-24	0%
P4SABHT3310	Complete Over Head Tank Works	1	11-Mar-23	11-Mar-23	17-Jan-24	18-Jan-24	0%
MEP works for Sub Admin Building & CCC Over Head Tank/ LMR Level		30	24-May-23	28-Jun-23	27-Feb-24	02-Apr-24	
P4CMEP3140	Installation of First Fix	15	24-May-23	10-Jun-23	27-Feb-24	15-Mar-24	0%
P4CMEP3150	Installation of Second Fix	15	10-Jun-23	28-Jun-23	15-Mar-24	02-Apr-24	0%
Six Ramp Toll Plazas		121	22-Aug-22	05-May-23	25-Nov-23	29-Mar-24	
Ramp Toll Plaza -01		113	23-Sep-22	04-May-23	25-Nov-23	21-Mar-24	
Civil Works		87	23-Sep-22	26-Nov-22	25-Nov-23	23-Feb-24	
P4CRTPI9630	Marking	10	23-Sep-22	06-Oct-22	25-Nov-23	06-Dec-23	0%
P4CRTPI9631	Total Station Surveying and Marking	2	06-Oct-22	07-Oct-22	07-Dec-23	08-Dec-23	0%
P4CRTPI9640	Earth Work Filling	10	07-Oct-22	20-Oct-22	08-Dec-23	21-Dec-23	0%
P4CRTPI9650	PCC	3	20-Oct-22	25-Oct-22	21-Dec-23	26-Dec-23	0%
P4CRTPI9660	Subgrade	4	25-Oct-22	29-Oct-22	01-Jan-24	05-Jan-24	0%
P4CRTPI9670	GSB	5	29-Oct-22	04-Nov-22	11-Jan-24	17-Jan-24	0%
P4CRTPI9680	DLC	6	04-Nov-22	10-Nov-22	23-Jan-24	30-Jan-24	0%
P4CRTPI9683	Seperation Membrane	2	10-Nov-22	12-Nov-22	30-Jan-24	01-Feb-24	0%

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MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4CRTP19685	PQC	4	12-Nov-22	17-Nov-22	07-Feb-24	12-Feb-24	0%
P4CRTP19690	Toll Gantry	3	16-Nov-22	19-Nov-22	13-Feb-24	16-Feb-24	0%
P4CRTP19700	Glazing Work	3	18-Nov-22	22-Nov-22	15-Feb-24	19-Feb-24	0%
P4CRTP19710	Complete Of Ramp Work 1	4	22-Nov-22	26-Nov-22	19-Feb-24	23-Feb-24	0%
Electrical Works		30	27-Mar-23	04-May-23	14-Feb-24	21-Mar-24	
P4ELRTP1100	CONDUIT LAYING	6	27-Mar-23	01-Apr-23	14-Feb-24	21-Feb-24	0%
P4ELRTP1110	MCCB,SFU,MCB,ISOLATOR box	4	14-Apr-23	19-Apr-23	04-Mar-24	07-Mar-24	0%
P4ELRTP1120	LIGHTING & POWER DISTRIBUTION BOARD	4	10-Apr-23	14-Apr-23	28-Feb-24	02-Mar-24	0%
P4ELRTP1130	LIGHT FITTINGS	5	19-Apr-23	25-Apr-23	08-Mar-24	13-Mar-24	0%
P4ELRTP1150	WIRING FOR UPS POWER SOCKETS External	3	06-Apr-23	11-Apr-23	26-Feb-24	29-Feb-24	0%
P4ELRTP1155	SWITCH CONTROLLED	2	29-Apr-23	03-May-23	18-Mar-24	20-Mar-24	0%
P4ELRTP1160	INSTALLATION OF GI WALL BOXES	4	01-Apr-23	06-Apr-23	21-Feb-24	26-Feb-24	0%
P4ELRTP1170	INSTALLATION OF SWITCHES,SOCKETS	3	26-Apr-23	29-Apr-23	13-Mar-24	16-Mar-24	0%
P4ELRTP1750	Complete Of Electrical Work	1	03-May-23	04-May-23	20-Mar-24	21-Mar-24	0%
Ramp Toll Plaza - 02		112	23-Sep-22	05-May-23	25-Nov-23	20-Mar-24	
Civil Works		89	23-Sep-22	14-Nov-22	25-Nov-23	24-Feb-24	
P4CRTP19070	Marking	1	23-Sep-22	24-Sep-22	25-Nov-23	25-Nov-23	0%
P4CRTP19071	Total Station Surveying and Marking	2	24-Sep-22	26-Sep-22	27-Nov-23	28-Nov-23	0%
P4CRTP19080	Earth Work Filling	10	26-Sep-22	10-Oct-22	04-Dec-23	15-Dec-23	0%
P4CRTP19090	PCC	3	10-Oct-22	13-Oct-22	21-Dec-23	26-Dec-23	0%
P4CRTP19100	Subgrade	4	13-Oct-22	18-Oct-22	26-Dec-23	30-Dec-23	0%
P4CRTP19110	GSB	5	18-Oct-22	25-Oct-22	08-Jan-24	13-Jan-24	0%
P4CRTP19120	DLC	6	25-Oct-22	31-Oct-22	23-Jan-24	31-Jan-24	0%
P4CRTP19123	Seperation Membrane	2	31-Oct-22	02-Nov-22	31-Jan-24	01-Feb-24	0%
P4CRTP19125	PQC	4	02-Nov-22	07-Nov-22	07-Feb-24	12-Feb-24	0%
P4CRTP19140	Toll Gantry	3	07-Nov-22	10-Nov-22	17-Feb-24	22-Feb-24	0%
P4CRTP19150	Glazing Work	4	09-Nov-22	12-Nov-22	20-Feb-24	24-Feb-24	0%
P4CRTP19160	Complete Of Ramp Work 2	1	12-Nov-22	14-Nov-22	24-Feb-24	24-Feb-24	0%
Electrical Works		32	27-Mar-23	05-May-23	12-Feb-24	20-Mar-24	
P4ELRTP1200	LIGHTING & POWER DISTRIBUTION BOARD	4	10-Apr-23	14-Apr-23	26-Feb-24	01-Mar-24	0%
P4ELRTP1210	MCCB,SFU,MCB,ISOLATOR box	4	14-Apr-23	19-Apr-23	01-Mar-24	06-Mar-24	0%
P4ELRTP1220	LIGHT FITTINGS	4	19-Apr-23	25-Apr-23	06-Mar-24	11-Mar-24	0%
P4ELRTP1230	CONDUIT LAYING	6	27-Mar-23	01-Apr-23	12-Feb-24	19-Feb-24	0%
P4ELRTP1250	WIRING FOR UPS POWER SOCKETS External	4	06-Apr-23	12-Apr-23	23-Feb-24	28-Feb-24	0%
P4ELRTP1260	SWITCH CONTROLLED	4	29-Apr-23	05-May-23	15-Mar-24	20-Mar-24	0%
P4ELRTP1270	INSTALLATION OF GI WALL BOXES	4	01-Apr-23	06-Apr-23	19-Feb-24	23-Feb-24	0%
P4ELRTP1280	INSTALLATION OF SWITCHES,SOCKETS	4	25-Apr-23	29-Apr-23	11-Mar-24	15-Mar-24	0%
P4ELRTP1760	Complete Of Electrical Work	1	05-May-23	05-May-23	20-Mar-24	20-Mar-24	0%
Ramp Toll Plaza - 03		116	22-Aug-22	20-Apr-23	25-Nov-23	23-Mar-24	
Civil Works		112	22-Aug-22	11-Apr-23	25-Nov-23	20-Mar-24	
P4CRTP19189	Marking	1	22-Aug-22	22-Aug-22	25-Nov-23	25-Nov-23	0%
P4CRTP19190	Total Station Surveying and Marking	2	22-Aug-22	24-Aug-22	25-Nov-23	28-Nov-23	0%
P4CRTP19200	Earth Work Filling	10	24-Aug-22	05-Sep-22	28-Nov-23	09-Dec-23	0%
P4CRTP19210	PCC	10	05-Sep-22	16-Sep-22	15-Dec-23	28-Dec-23	0%
P4CRTP19220	Subgrade	6	16-Sep-22	23-Sep-22	28-Dec-23	04-Jan-24	0%
P4CRTP19230	GSB	6	23-Sep-22	30-Sep-22	04-Jan-24	11-Jan-24	0%
P4CRTP19240	DLC	10	30-Sep-22	13-Oct-22	17-Jan-24	30-Jan-24	0%
P4CRTP19243	Seperation Membrane	4	01-Oct-22	07-Oct-22	18-Jan-24	23-Jan-24	0%
P4CRTP19245	PQC	8	27-Oct-22	05-Nov-22	12-Feb-24	21-Feb-24	0%
P4CRTP19250	Toll Gantry	8	05-Nov-22	15-Nov-22	26-Feb-24	06-Mar-24	0%
P4CRTP19260	Glazing Work	8	08-Nov-22	17-Nov-22	28-Feb-24	08-Mar-24	0%



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4CRTPIII9270	Complete Of Ramp Work 3	1	10-Apr-23	11-Apr-23	20-Mar-24	20-Mar-24	0%
Electrical Works		15	27-Mar-23	20-Apr-23	06-Mar-24	23-Mar-24	
P4ELRTPi310	LIGHTING & POWER DISTRIBUTION BOARD	6	01-Apr-23	10-Apr-23	13-Mar-24	20-Mar-24	0%
P4ELRTPi320	MCCB,SFU,MCB,ISOLATOR box	4	01-Apr-23	06-Apr-23	13-Mar-24	18-Mar-24	0%
P4ELRTPi330	LIGHT FITTINGS	4	08-Apr-23	13-Apr-23	19-Mar-24	23-Mar-24	0%
P4ELRTPi340	CONDUIT LAYING	6	27-Mar-23	01-Apr-23	06-Mar-24	13-Mar-24	0%
P4ELRTPi360	WIRING FOR UPS POWER SOCKETS External	4	01-Apr-23	06-Apr-23	13-Mar-24	18-Mar-24	0%
P4ELRTPi370	SWITCH CONTROLLED	4	06-Apr-23	12-Apr-23	18-Mar-24	22-Mar-24	0%
P4ELRTPi380	INSTALLATION OF GI WALL BOXES	5	06-Apr-23	13-Apr-23	18-Mar-24	23-Mar-24	0%
P4ELRTPi770	Complete Of Electrical Work	1	19-Apr-23	20-Apr-23	23-Mar-24	23-Mar-24	0%
Ramp Toll Plaza - 04		119	23-Sep-22	05-May-23	25-Nov-23	27-Mar-24	
Civil Works		103	23-Sep-22	29-Nov-22	25-Nov-23	11-Mar-24	
P4CRTPiV9300	Marking	1	23-Sep-22	24-Sep-22	25-Nov-23	25-Nov-23	0%
P4CRTPiV9301	Total Station Surveying and Marking	2	24-Sep-22	26-Sep-22	27-Nov-23	28-Nov-23	0%
P4CRTPiV9310	Earth Work Filling	10	26-Sep-22	10-Oct-22	04-Dec-23	15-Dec-23	0%
P4CRTPiV9320	PCC	3	10-Oct-22	13-Oct-22	15-Dec-23	19-Dec-23	0%
P4CRTPiV9330	Subgrade	4	13-Oct-22	18-Oct-22	29-Dec-23	03-Jan-24	0%
P4CRTPiV9340	GSB	5	18-Oct-22	25-Oct-22	09-Jan-24	15-Jan-24	0%
P4CRTPiV9350	DLC	6	25-Oct-22	31-Oct-22	24-Jan-24	01-Feb-24	0%
P4CRTPiV9353	Seperation Membrane	2	31-Oct-22	02-Nov-22	01-Feb-24	02-Feb-24	0%
P4CRTPiV9355	PQC	4	14-Nov-22	17-Nov-22	14-Feb-24	19-Feb-24	0%
P4CRTPiV9360	Toll Gantry	3	18-Nov-22	22-Nov-22	24-Feb-24	28-Feb-24	0%
P4CRTPiV9370	Glazing Work	4	19-Nov-22	24-Nov-22	01-Mar-24	06-Mar-24	0%
P4CRTPiV9380	Complete Of Ramp Work 4	4	24-Nov-22	29-Nov-22	06-Mar-24	11-Mar-24	0%
Electrical Works		32	27-Mar-23	05-May-23	19-Feb-24	27-Mar-24	
P4ELRTPi420	LIGHTING & POWER DISTRIBUTION BOARD	4	11-Apr-23	15-Apr-23	05-Mar-24	09-Mar-24	0%
P4ELRTPi430	MCCB,SFU,MCB,ISOLATOR box	4	15-Apr-23	20-Apr-23	09-Mar-24	14-Mar-24	0%
P4ELRTPi440	LIGHT FITTINGS	4	20-Apr-23	26-Apr-23	14-Mar-24	19-Mar-24	0%
P4ELRTPi450	CONDUIT LAYING	6	27-Mar-23	01-Apr-23	19-Feb-24	26-Feb-24	0%
P4ELRTPi470	WIRING FOR UPS POWER SOCKETS External	4	10-Apr-23	14-Apr-23	02-Mar-24	07-Mar-24	0%
P4ELRTPi480	SWITCH CONTROLLED	2	02-May-23	05-May-23	23-Mar-24	26-Mar-24	0%
P4ELRTPi490	INSTALLATION OF GI WALL BOXES	6	01-Apr-23	10-Apr-23	26-Feb-24	02-Mar-24	0%
P4ELRTPi500	INSTALLATION OF SWITCHES,SOCKETS	4	26-Apr-23	02-May-23	19-Mar-24	23-Mar-24	0%
P4ELRTPi780	Complete Of Electrical Work	1	05-May-23	05-May-23	26-Mar-24	27-Mar-24	0%
Ramp Toll Plaza - 05		121	23-Sep-22	26-Apr-23	25-Nov-23	29-Mar-24	
Civil Works		103	23-Sep-22	19-Dec-22	25-Nov-23	11-Mar-24	
P4CRTPV9408	Marking	1	23-Sep-22	24-Sep-22	25-Nov-23	25-Nov-23	0%
P4CRTPV9409	Total Station Surveying and Marking	2	24-Sep-22	26-Sep-22	27-Nov-23	28-Nov-23	0%
P4CRTPV9420	Earth Work Filling	10	26-Sep-22	08-Oct-22	28-Nov-23	09-Dec-23	0%
P4CRTPV9430	PCC	10	08-Oct-22	20-Oct-22	15-Dec-23	28-Dec-23	0%
P4CRTPV9440	Subgrade	6	20-Oct-22	28-Oct-22	03-Jan-24	10-Jan-24	0%
P4CRTPV9450	GSB	6	28-Oct-22	04-Nov-22	10-Jan-24	17-Jan-24	0%
P4CRTPV9460	DLC	7	04-Nov-22	12-Nov-22	19-Jan-24	29-Jan-24	0%
P4CRTPV9463	Seperation Membrane	4	12-Nov-22	17-Nov-22	29-Jan-24	02-Feb-24	0%
P4CRTPV9465	PQC	7	26-Nov-22	03-Dec-22	12-Feb-24	19-Feb-24	0%
P4CRTPV9470	Toll Gantry	8	05-Dec-22	13-Dec-22	26-Feb-24	05-Mar-24	0%
P4CRTPV9480	Glazing Work	7	06-Dec-22	14-Dec-22	27-Feb-24	06-Mar-24	0%
P4CRTPV9490	Complete Of Ramp Work 5	4	14-Dec-22	19-Dec-22	06-Mar-24	11-Mar-24	0%
Electrical Works		34	27-Mar-23	26-Apr-23	20-Feb-24	29-Mar-24	
P4ELRTPi529	CONDUIT LAYING	6	27-Mar-23	01-Apr-23	20-Feb-24	26-Feb-24	0%
P4ELRTPi530	LIGHTING & POWER DISTRIBUTION BOARD	4	05-Apr-23	11-Apr-23	11-Mar-24	15-Mar-24	0%

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MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30			
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete		
P4ELRTP1540	MCCB,SFU,MCB,ISOLATOR box	2	06-Apr-23	10-Apr-23	12-Mar-24	14-Mar-24	0%		
P4ELRTP1550	LIGHT FITTINGS	4	10-Apr-23	14-Apr-23	15-Mar-24	19-Mar-24	0%		
P4ELRTP1580	WIRING FOR UPS POWER SOCKETS External	4	03-Apr-23	08-Apr-23	27-Feb-24	02-Mar-24	0%		
P4ELRTP1590	SWITCH CONTROLLED	4	19-Apr-23	25-Apr-23	25-Mar-24	28-Mar-24	0%		
P4ELRTP1600	INSTALLATION OF GI WALL BOXES	6	01-Apr-23	10-Apr-23	26-Feb-24	04-Mar-24	0%		
P4ELRTP1610	INSTALLATION OF SWITCHES,SOCKETS	4	14-Apr-23	19-Apr-23	20-Mar-24	23-Mar-24	0%		
P4ELRTP1790	Complete Of Electrical Work	1	25-Apr-23	26-Apr-23	29-Mar-24	29-Mar-24	0%		
Ramp Toll Plaza - 06		119	19-Oct-22	15-Apr-23	25-Nov-23	28-Mar-24			
Civil Works		92	19-Oct-22	19-Dec-22	25-Nov-23	28-Feb-24			
P4CRTPV19520	Marking	1	19-Oct-22	20-Oct-22	25-Nov-23	25-Nov-23	0%		
P4CRTPV19521	Total Station Surveying and Marking	2	20-Oct-22	21-Oct-22	29-Nov-23	30-Nov-23	0%		
P4CRTPV19530	Earth Work Filling	10	21-Oct-22	04-Nov-22	30-Nov-23	13-Dec-23	0%		
P4CRTPV19540	PCC	3	04-Nov-22	08-Nov-22	22-Dec-23	27-Dec-23	0%		
P4CRTPV19550	Subgrade	4	08-Nov-22	12-Nov-22	30-Dec-23	04-Jan-24	0%		
P4CRTPV19560	GSB	5	12-Nov-22	18-Nov-22	10-Jan-24	16-Jan-24	0%		
P4CRTPV19570	DLC	6	18-Nov-22	24-Nov-22	22-Jan-24	29-Jan-24	0%		
P4CRTPV19573	Seperation Membrane	2	24-Nov-22	26-Nov-22	03-Feb-24	06-Feb-24	0%		
P4CRTPV19575	PQC	4	08-Dec-22	12-Dec-22	12-Feb-24	15-Feb-24	0%		
P4CRTPV19580	Toll Gantry	3	13-Dec-22	16-Dec-22	22-Feb-24	26-Feb-24	0%		
P4CRTPV19590	Glazing Work	3	14-Dec-22	17-Dec-22	23-Feb-24	27-Feb-24	0%		
P4CRTPV19600	Complete Of Ramp Work 6	1	17-Dec-22	19-Dec-22	27-Feb-24	28-Feb-24	0%		
Electrical Works		35	19-Dec-22	15-Apr-23	16-Feb-24	28-Mar-24			
P4ELRTP1640	LIGHTING & POWER DISTRIBUTION BOARD	4	19-Dec-22	23-Dec-22	28-Feb-24	04-Mar-24	0%		
P4ELRTP1650	MCCB,SFU,MCB,ISOLATOR box	2	23-Dec-22	26-Dec-22	04-Mar-24	06-Mar-24	0%		
P4ELRTP1660	LIGHT FITTINGS	4	27-Dec-22	30-Dec-22	07-Mar-24	11-Mar-24	0%		
P4ELRTP1670	CONDUIT LAYING	6	27-Mar-23	01-Apr-23	16-Feb-24	22-Feb-24	0%		
P4ELRTP1690	WIRING FOR UPS POWER SOCKETS External	4	27-Dec-22	30-Dec-22	12-Mar-24	15-Mar-24	0%		
P4ELRTP1700	SWITCH CONTROLLED	2	12-Apr-23	14-Apr-23	25-Mar-24	27-Mar-24	0%		
P4ELRTP1710	INSTALLATION OF GI WALL BOXES	4	01-Apr-23	06-Apr-23	22-Feb-24	27-Feb-24	0%		
P4ELRTP1720	INSTALLATION OF SWITCHES,SOCKETS	4	06-Apr-23	12-Apr-23	16-Mar-24	20-Mar-24	0%		
P4ELRTP1800	Complete Of Electrical Work	1	15-Apr-23	15-Apr-23	27-Mar-24	28-Mar-24	0%		
Approach Roads & Ramps to all 6 Toll Plazas		52	22-Nov-22	23-Jan-23	05-Feb-24	06-Apr-24			
P4ARTP1300	Total Station Marking and Surveying	2	22-Nov-22	24-Nov-22	05-Feb-24	07-Feb-24	0%		
P4ARTP1310	Excavation of Hard Rock	15	24-Nov-22	12-Dec-22	07-Feb-24	24-Feb-24	0%		
P4ARTP1320	Sub Grade Laying	10	29-Nov-22	10-Dec-22	12-Feb-24	23-Feb-24	0%		
P4ARTP1330	Watering & Compaction	10	30-Nov-22	12-Dec-22	13-Feb-24	24-Feb-24	0%		
P4ARTP1340	GSB Laying	12	03-Dec-22	17-Dec-22	16-Feb-24	01-Mar-24	0%		
P4ARTP1350	DLC	10	17-Dec-22	29-Dec-22	01-Mar-24	13-Mar-24	0%		
P4ARTP1360	Separation Membrane	10	29-Dec-22	10-Jan-23	13-Mar-24	25-Mar-24	0%		
P4ARTP1370	Providing PQC	10	10-Jan-23	21-Jan-23	25-Mar-24	05-Apr-24	0%		
P4ARTP1380	Complete Approach Road & Ramps To All Toll Plazas	1	21-Jan-23	23-Jan-23	05-Apr-24	06-Apr-24	0%		
Six Weigh Bridges		17	26-Oct-22	26-Dec-22	05-Feb-24	24-Feb-24			
Weigh Bridges- 01		12	28-Nov-22	12-Dec-22	10-Feb-24	24-Feb-24			
Construction works for Weigh Bridges- 01		12	28-Nov-22	12-Dec-22	10-Feb-24	24-Feb-24			
P4PWB1150	Provision of Weigh Bridge - 01	12	28-Nov-22	12-Dec-22	10-Feb-24	24-Feb-24	0%		
Weigh Bridges- 02		12	17-Nov-22	01-Dec-22	07-Feb-24	21-Feb-24			
Construction works for Weigh Bridges- 02		12	17-Nov-22	01-Dec-22	07-Feb-24	21-Feb-24			
P4PWB1160	Provision of Weigh Bridge - 02	12	17-Nov-22	01-Dec-22	07-Feb-24	21-Feb-24	0%		
Weigh Bridges- 03		12	26-Oct-22	09-Nov-22	05-Feb-24	19-Feb-24			
Construction works for Weigh Bridges- 03		12	26-Oct-22	09-Nov-22	05-Feb-24	19-Feb-24			
P4PWB1170	Provision of Weigh Bridge - 03	12	26-Oct-22	09-Nov-22	05-Feb-24	19-Feb-24	0%		



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
Weigh Bridges- 04		12	17-Nov-22	01-Dec-22	08-Feb-24	22-Feb-24		
Construction works for Weigh Bridges- 04		12	17-Nov-22	01-Dec-22	08-Feb-24	22-Feb-24		
P4PWB1180	Provision of Weigh Bridge - 04	12	17-Nov-22	01-Dec-22	08-Feb-24	22-Feb-24	0%	
Weigh Bridges- 05		12	28-Nov-22	12-Dec-22	10-Feb-24	24-Feb-24		
Construction works for Weigh Bridges- 05		12	28-Nov-22	12-Dec-22	10-Feb-24	24-Feb-24		
P4PWB1190	Provision of Weigh Bridge - 05	12	28-Nov-22	12-Dec-22	10-Feb-24	24-Feb-24	0%	
Weigh Bridges- 06		12	12-Dec-22	26-Dec-22	09-Feb-24	23-Feb-24		
Construction works for Weigh Bridges- 06		12	12-Dec-22	26-Dec-22	09-Feb-24	23-Feb-24		
P4PWB1200	Provision of Weigh Bridge - 06	12	12-Dec-22	26-Dec-22	09-Feb-24	23-Feb-24	0%	
Porta Cabins at six locations		29	29-Oct-22	05-Aug-23	03-Feb-24	08-Mar-24		
Porta Cabin 01		20	27-Jun-23	05-Aug-23	07-Feb-24	01-Mar-24		
P4PC1GF1980	Foundation Work	10	27-Jun-23	15-Jul-23	07-Feb-24	19-Feb-24	0%	
P4PC1GF2270	Water proofing Wet area	6	18-Jul-23	29-Jul-23	19-Feb-24	26-Feb-24	0%	
P4PC1GF2280	Complete porta Cabin Work 1	4	31-Jul-23	05-Aug-23	26-Feb-24	01-Mar-24	0%	
Porta Cabin 02		20	29-Oct-22	22-Nov-22	03-Feb-24	27-Feb-24		
P4CPC2030	Foundation Work	10	29-Oct-22	10-Nov-22	03-Feb-24	15-Feb-24	0%	
P4CPC2040	Super Structure Work	6	10-Nov-22	17-Nov-22	15-Feb-24	22-Feb-24	0%	
P4CPC2050	Finishing Work	4	17-Nov-22	22-Nov-22	22-Feb-24	27-Feb-24	0%	
Porta Cabin 03		20	29-Oct-22	22-Nov-22	14-Feb-24	08-Mar-24		
P4CPC2060	Foundation Work	10	29-Oct-22	10-Nov-22	14-Feb-24	26-Feb-24	0%	
P4CPC2070	Super Structure Work	6	10-Nov-22	17-Nov-22	26-Feb-24	04-Mar-24	0%	
P4CPC2080	Finishing Work	4	17-Nov-22	22-Nov-22	04-Mar-24	08-Mar-24	0%	
Porta Cabin 04		20	09-Nov-22	01-Dec-22	09-Feb-24	04-Mar-24		
P4CPC2090	Foundation Work	10	09-Nov-22	19-Nov-22	09-Feb-24	21-Feb-24	0%	
P4CPC2100	Super Structure Work	6	21-Nov-22	26-Nov-22	21-Feb-24	28-Feb-24	0%	
P4CPC2110	Finishing Work	4	28-Nov-22	01-Dec-22	28-Feb-24	04-Mar-24	0%	
Porta Cabin 05		20	28-Nov-22	20-Dec-22	13-Feb-24	06-Mar-24		
P4CPC2120	Foundation Work	10	28-Nov-22	08-Dec-22	13-Feb-24	23-Feb-24	0%	
P4CPC2130	Super Structure Work	6	09-Dec-22	15-Dec-22	24-Feb-24	01-Mar-24	0%	
P4CPC2140	Finishing Work	4	16-Dec-22	20-Dec-22	02-Mar-24	06-Mar-24	0%	
Porta Cabin 06		20	06-Dec-22	28-Dec-22	09-Feb-24	02-Mar-24		
P4CPC2150	Foundation Work	10	06-Dec-22	16-Dec-22	09-Feb-24	20-Feb-24	0%	
P4CPC2160	Super Structure Work	6	17-Dec-22	23-Dec-22	21-Feb-24	27-Feb-24	0%	
P4CPC2170	Finishing Work	4	24-Dec-22	28-Dec-22	28-Feb-24	02-Mar-24	0%	
Service Roads 4.5 m wide & 700m long		29	27-Jun-23	10-Aug-23	07-Nov-23	07-Dec-23		
P4SR1210	Marking	1	27-Jun-23	27-Jun-23	07-Nov-23	08-Nov-23	0%	
P4SR1211	Total Station Marking and Surveying	2	28-Jun-23	29-Jun-23	08-Nov-23	10-Nov-23	0%	
P4SR1220	Earth Work	5	30-Jun-23	08-Jul-23	10-Nov-23	20-Nov-23	0%	
P4SR1230	Sub Grade Laying	5	01-Jul-23	11-Jul-23	11-Nov-23	21-Nov-23	0%	
P4SR1240	Watering & Compaction	5	01-Jul-23	11-Jul-23	11-Nov-23	21-Nov-23	0%	
P4SR1250	GSB Laying	5	04-Jul-23	13-Jul-23	16-Nov-23	22-Nov-23	0%	
P4SR1260	DLC	3	08-Jul-23	15-Jul-23	20-Nov-23	23-Nov-23	0%	
P4SR1265	Separation membrane	4	15-Jul-23	25-Jul-23	23-Nov-23	28-Nov-23	0%	
P4SR1270	PQC	7	27-Jul-23	10-Aug-23	28-Nov-23	06-Dec-23	0%	
P4SR1280	Complete Of service Roads	1	10-Aug-23	10-Aug-23	06-Dec-23	07-Dec-23	0%	
Construction Works at Sewri side		573	13-Oct-22	03-Jun-23	03-Aug-22 A	15-Jun-24		
Sub Admin Building and Command Control Centre (G+1)		566	13-Oct-22	03-Jun-23	03-Aug-22 A	07-Jun-24		
Sub Admin Building and CCC (G+1) Foundation Work		409	13-Oct-22	05-Jan-23	25-Jan-23 A	05-Dec-23		
P4CSWRF2680	Total Station Survey and Marking	1	13-Oct-22	14-Oct-22	25-Nov-23	25-Nov-23	0%	
P4CSWRF2690	Excavation	5	14-Oct-22	20-Oct-22	11-Apr-23 A	29-Apr-23 A	100%	
P4CSWRF2700	PCC	3	20-Oct-22	25-Oct-22	04-Feb-23 A	31-May-23 A	100%	

MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4CSWRF2710	Pile Foundation Reinforcement	6	25-Oct-22	01-Nov-22	25-Feb-23 A	06-Jun-23 A	100%	
P4CSWRF2720	Piling	5	01-Nov-22	07-Nov-22	25-Jan-23 A	30-May-23 A	100%	
P4CSWRF2730	Piling Foundation Casting	5	07-Nov-22	12-Nov-22	10-Feb-23 A	10-Jun-23 A	100%	
P4CSWRF2740	Plinth Beam Reinforcement	6	12-Nov-22	19-Nov-22	12-Apr-23 A	08-Jun-23 A	100%	
P4CSWRF2750	Plint Beam Shuttering	6	19-Nov-22	26-Nov-22	18-Apr-23 A	03-Jun-23 A	100%	
P4CSWRF2760	Plinth Beam Casting	5	26-Nov-22	02-Dec-22	24-Apr-23 A	10-Jun-23 A	100%	
P4CSWRF2770	Backfilling with Murram	5	02-Dec-22	08-Dec-22	11-Jun-23 A	26-Jun-23 A	100%	
P4CSWRF2780	Compaction	8	10-Dec-22	20-Dec-22	12-Jun-23 A	28-Jun-23 A	100%	
P4CSWRF2790	Grade Slab	6	20-Dec-22	27-Dec-22	21-Jun-23 A	27-Nov-23	100%	
P4CSWRF2792	Flooring	8	27-Dec-22	05-Jan-23	27-Nov-23	05-Dec-23	0%	
Sub Admin Building and Command Control Centre at Ground Floor		551	05-Jan-23	12-May-23	08-Aug-22 A	06-Jun-24		
Civil works for Sub Admin Building and Command Control Centre at Ground Floor		405	05-Jan-23	18-Mar-23	08-Aug-22 A	16-Dec-23		
P4CSWRGF6460	Column Reinforcement	10	05-Jan-23	17-Jan-23	27-May-23 A	23-Jun-23 A	100%	
P4CSWRGF6470	Column Shuttering	10	13-Jan-23	25-Jan-23	30-May-23 A	24-Jun-23 A	100%	
P4CSWRGF6480	Column Casting	8	25-Jan-23	04-Feb-23	12-Oct-22 A	25-Jun-23 A	100%	
P4CSWRGF6490	Shuttering of Roof Slab & Roof Beam	6	04-Feb-23	11-Feb-23	27-Jun-23 A	30-Jul-23 A	100%	
P4CSWRGF6500	Reinforcement of Roof Slab & Roof Beam	8	11-Feb-23	22-Feb-23	02-Jul-23 A	06-Aug-23 A	100%	
P4CSWRGF6510	Casting of Roof Slab & Roof Beam	1	22-Feb-23	22-Feb-23	08-Aug-22 A	08-Aug-23 A	100%	
P4CSWRGF6520	Blockwork	5	01-Mar-23	07-Mar-23	10-Sep-23 A	06-Dec-23	80%	
P4CSWRGF6530	Internal Plastering	8	08-Mar-23	17-Mar-23	06-Dec-23	14-Dec-23	0%	
P4CSWRGF6540	External Plastering	3	08-Mar-23	11-Mar-23	06-Dec-23	09-Dec-23	0%	
P4CSWRGF6545	Internal Painting	6	11-Mar-23	18-Mar-23	09-Dec-23	15-Dec-23	0%	
P4CSWRGF6550	Doors and Windows Framework	2	01-Mar-23	03-Mar-23	06-Dec-23	08-Dec-23	0%	
P4CSWRGF6560	Staircase Work	3	08-Mar-23	11-Mar-23	06-Dec-23	09-Dec-23	0%	
P4CSWRGF6570	Tile Fixing	4	08-Mar-23	13-Mar-23	06-Dec-23	11-Dec-23	0%	
P4CSWRGF6580	Doors and Windows Fixing	2	03-Mar-23	07-Mar-23	08-Dec-23	11-Dec-23	0%	
P4CSWRGF6590	Water Proofing of Wet Area	2	08-Mar-23	09-Mar-23	06-Dec-23	07-Dec-23	0%	
P4CSWRGF6600	Completion of Civil Activities at Ground Floor	1	18-Mar-23	18-Mar-23	16-Dec-23	16-Dec-23	0%	
MEP works for Sub Admin Building and Command Control Centre at Ground Floor		510	03-Apr-23	12-May-23	20-Sep-23 A	06-Jun-24		
Electrical Works		510	11-Apr-23	12-May-23	20-Sep-23 A	06-Jun-24		
P4ELSACCGF	CONDUT,CABLE & CABLE TRAY INSTALLATION	8	11-Apr-23	20-Apr-23	20-Sep-23 A	31-Jan-24	5%	
P4ELSACCGF	MCCB,SFU,MCB,ISOLATOR box	3	14-Apr-23	18-Apr-23	20-Jan-24	24-Jan-24	0%	
P4ELSACCGF	INSTALLATION OF GI WALL BOXES	2	15-Apr-23	18-Apr-23	20-Sep-23 A	24-Jan-24	4.03%	
P4ELSACCGF	WIRING FOR POWER & AC SOCKETS Internal	11	18-Apr-23	03-May-23	24-Jan-24	07-Feb-24	0%	
P4ELSACCGF	WIRING FOR UPS POWER SOCKETS Internal	6	19-Apr-23	26-Apr-23	25-Jan-24	02-Feb-24	0%	
P4ELSACCGF	LIGHTING & POWER DISTRIBUTION BOARD	2	18-Apr-23	20-Apr-23	24-Jan-24	29-Jan-24	0%	
P4ELSACCGF	LIGHT FITTINGS	2	20-Apr-23	25-Apr-23	29-Jan-24	31-Jan-24	0%	
P4ELSACCGF	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	20-Apr-23	29-Apr-23	29-Jan-24	05-Feb-24	0%	
P4ELSACCGF	INSTALLATION OF SWITCHES,SOCKETS	2	19-Apr-23	21-Apr-23	25-Jan-24	29-Jan-24	0%	
P4ELSACCGF	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	10	20-Apr-23	04-May-23	27-Jan-24	08-Feb-24	0%	
P4ELSACCGF	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	28-Apr-23	05-May-23	03-Feb-24	09-Feb-24	0%	
P4ELSACCGF	Public Address System Including Cable Laying & Speaker Installation	3	26-Apr-23	02-May-23	03-Jun-24	06-Jun-24	0%	
P4ELSACCGF	Light Protection & Earthing	5	05-May-23	11-May-23	09-Feb-24	15-Feb-24	0%	
P4ELSACCGF	Installation Of BMS System	4	06-May-23	11-May-23	01-Mar-24	06-Mar-24	0%	
P4ELSACCGF	Complete Of Electrical Works	1	11-May-23	12-May-23	06-Jun-24	06-Jun-24	0%	
HVAC Works		19	17-Apr-23	10-May-23	20-Jan-24	13-Feb-24		
L4HVMABGF2	Installation Of Tray	5	17-Apr-23	24-Apr-23	20-Jan-24	27-Jan-24	0%	
L4HVMABGF2	Installation Of Units	5	03-May-23	09-May-23	07-Feb-24	12-Feb-24	0%	
L4HVMABGF2	Installation Of copper Pipe with Insulation	8	17-Apr-23	27-Apr-23	20-Jan-24	31-Jan-24	0%	
L4HVMABGF2	Installation Of Ductig	4	17-Apr-23	21-Apr-23	20-Jan-24	25-Jan-24	0%	
L4HVMABGF2	Installation Of Ducting Insulation	5	21-Apr-23	28-Apr-23	25-Jan-24	01-Feb-24	0%	



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Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
L4HVMABGF2	Installation Of Drain pipe Insulation	6	28-Apr-23	05-May-23	01-Feb-24	07-Feb-24	0%
L4HVMABGF2	Complete Of HVAC Work	1	09-May-23	10-May-23	12-Feb-24	13-Feb-24	0%
Fire Fighting Works		19	03-Apr-23	26-Apr-23	30-Jan-24	21-Feb-24	
P4FFSACCGF	Installation Fire pipe & Hydrant system including support structure	10	03-Apr-23	14-Apr-23	30-Jan-24	10-Feb-24	0%
P4FFSACCGF	Pressure Testing	2	15-Apr-23	17-Apr-23	10-Feb-24	13-Feb-24	0%
P4FFSACCGF	Installation of Potable Fire Extinguisher	6	17-Apr-23	25-Apr-23	13-Feb-24	19-Feb-24	0%
P4FFSACCGF	Complete Of Fire Fighting Works	2	25-Apr-23	26-Apr-23	20-Feb-24	21-Feb-24	0%
Sub Admin Building and Command Control Centre at First Floor		549	23-Feb-23	15-May-23	03-Aug-22 A	06-Jun-24	
Civil works for Sub Admin Building and Command Control Centre at First Floor		410	23-Feb-23	11-Apr-23	03-Aug-22 A	26-Dec-23	
P4CSWRFF6610	Column Reinforcement	6	23-Feb-23	02-Mar-23	10-Aug-23 A	26-Aug-23 A	100%
P4CSWRFF6620	Column Shuttering	5	24-Feb-23	02-Mar-23	14-Aug-23 A	30-Aug-23 A	100%
P4CSWRFF6630	Column Casting	2	02-Mar-23	04-Mar-23	18-Aug-23 A	31-Aug-23 A	100%
P4CSWRFF6640	Shuttering of Roof Slab & Roof Beam	4	04-Mar-23	09-Mar-23	20-Aug-23 A	04-Sep-23 A	100%
P4CSWRFF6650	Reinforcement of Roof Slab & Roof Beam	4	09-Mar-23	14-Mar-23	03-Aug-22 A	09-Sep-23 A	100%
P4CSWRFF6660	Casting of Roof Slab & Roof Beam	1	14-Mar-23	15-Mar-23	11-Sep-22 A	11-Sep-23 A	100%
P4CSWRFF6670	Blockwork	6	21-Mar-23	28-Mar-23	06-Dec-23	12-Dec-23	0%
P4CSWRFF6680	Internal Plastering	8	28-Mar-23	06-Apr-23	12-Dec-23	21-Dec-23	0%
P4CSWRFF6690	External Plastering	3	28-Mar-23	31-Mar-23	12-Dec-23	15-Dec-23	0%
P4CSWRFF6695	Internal Painting	7	31-Mar-23	10-Apr-23	15-Dec-23	23-Dec-23	0%
P4CSWRFF6700	Doors and Windows Framework	2	21-Mar-23	24-Mar-23	06-Dec-23	08-Dec-23	0%
P4CSWRFF6710	Staircase Work	5	28-Mar-23	03-Apr-23	12-Dec-23	18-Dec-23	0%
P4CSWRFF6720	Tile Fixing	5	29-Mar-23	04-Apr-23	13-Dec-23	19-Dec-23	0%
P4CSWRFF6730	Doors and Windows Fixing	5	24-Mar-23	30-Mar-23	08-Dec-23	14-Dec-23	0%
P4CSWRFF6740	Water Proofing of Wet Area	2	28-Mar-23	29-Mar-23	12-Dec-23	14-Dec-23	0%
P4CSWRFF6750	Completion of Civil Activities at First Floor	1	10-Apr-23	11-Apr-23	23-Dec-23	26-Dec-23	0%
MEP works for Sub Admin Building and Command Control Centre at First Floor		118	11-Apr-23	15-May-23	20-Jan-24	06-Jun-24	
Electrical Works		118	11-Apr-23	15-May-23	20-Jan-24	06-Jun-24	
P4ELSACCF	CONDUIT,CABLE & CABLE TRAY INSTALLATION	11	11-Apr-23	25-Apr-23	20-Jan-24	03-Feb-24	0%
P4ELSACCF	MCCB,SFU,MCB,ISOLATOR box	3	13-Apr-23	17-Apr-23	23-Jan-24	27-Jan-24	0%
P4ELSACCF	INSTALLATION OF GI WALL BOXES	2	14-Apr-23	17-Apr-23	24-Jan-24	27-Jan-24	0%
P4ELSACCF	WIRING FOR POWER & AC SOCKETS Internal	11	17-Apr-23	02-May-23	27-Jan-24	09-Feb-24	0%
P4ELSACCF	WIRING FOR UPS POWER SOCKETS Internal	6	18-Apr-23	25-Apr-23	29-Jan-24	05-Feb-24	0%
P4ELSACCF	LIGHTING & POWER DISTRIBUTION BOARD	2	17-Apr-23	19-Apr-23	27-Jan-24	31-Jan-24	0%
P4ELSACCF	LIGHT FITTINGS	2	19-Apr-23	24-Apr-23	31-Jan-24	02-Feb-24	0%
P4ELSACCF	SWITCH CONTROLLED LIGHT POINT WITH CONDUIT	6	19-Apr-23	28-Apr-23	31-Jan-24	07-Feb-24	0%
P4ELSACCF	INSTALLATION OF SWITCHES,SOCKETS	2	18-Apr-23	20-Apr-23	29-Jan-24	31-Jan-24	0%
P4ELSACCF	FIRE ALARM AND DETECTION SYSTEM - CABLE LAYING	10	19-Apr-23	03-May-23	30-Jan-24	10-Feb-24	0%
P4ELSACCF	FIRE ALARM AND DETECTION SYSTEM - PANEL & ASSOCIATED ACCESSORIES INSTALLATION	6	27-Apr-23	04-May-23	06-Feb-24	12-Feb-24	0%
P4ELSACCF	Public Address System Including Cable Laying & Speaker Installation	3	25-Apr-23	29-Apr-23	03-Jun-24	06-Jun-24	0%
P4ELSACCF	Light Protection & Earthing	8	04-May-23	13-May-23	12-Feb-24	21-Feb-24	0%
P4ELSACCF	Installation Of BMS System	4	06-May-23	11-May-23	01-Mar-24	06-Mar-24	0%
P4ELSACCF	Complete Of Electrical Works	1	13-May-23	15-May-23	06-Jun-24	06-Jun-24	0%
HVAC Works		17	13-Apr-23	10-May-23	23-Jan-24	13-Feb-24	
M4HVMABGF2	Installation Of Tray	10	13-Apr-23	26-Apr-23	23-Jan-24	05-Feb-24	0%
M4HVMABGF2	Installation Of Units	5	03-May-23	09-May-23	07-Feb-24	12-Feb-24	0%
M4HVMABGF2	Installation Of copper Pipe with Insulation	8	13-Apr-23	24-Apr-23	23-Jan-24	02-Feb-24	0%
M4HVMABGF2	Installation Of Ducting	4	13-Apr-23	18-Apr-23	23-Jan-24	29-Jan-24	0%
M4HVMABGF2	Installation Of Ducting Insulation	4	18-Apr-23	24-Apr-23	29-Jan-24	02-Feb-24	0%
M4HVMABGF2	Installation Of Drain pipe Insulation	6	24-Apr-23	02-May-23	02-Feb-24	09-Feb-24	0%
M4HVMABGF2	Complete Of HVAC Work	1	09-May-23	10-May-23	12-Feb-24	13-Feb-24	0%
Fire Fighting Works		18	13-Apr-23	06-May-23	23-Jan-24	14-Feb-24	

MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4FFSACCF4	Installation Fire pipe & Hydrant system including support structure	10	13-Apr-23	26-Apr-23	23-Jan-24	05-Feb-24	0%
P4FFSACCF4	Pressure Testing	2	26-Apr-23	27-Apr-23	05-Feb-24	07-Feb-24	0%
P4FFSACCF4	Installation of Potable Fire Extinguisher	6	27-Apr-23	05-May-23	07-Feb-24	13-Feb-24	0%
P4FFSACCF4	Complete Of Fire Fighting Works	1	05-May-23	06-May-23	13-Feb-24	14-Feb-24	0%
Sub Admin Building and CCC Facade and External Painting		12	26-Apr-23	11-May-23	09-Jan-24	24-Jan-24	
P4EPSWR1720	External Painting	10	26-Apr-23	09-May-23	09-Jan-24	20-Jan-24	0%
P4EPSWR1730	Facade Work	10	28-Apr-23	11-May-23	11-Jan-24	23-Jan-24	0%
P4EPSWR1740	Complete External Work	1	11-May-23	11-May-23	23-Jan-24	24-Jan-24	0%
Sub Admin Building and Command Control Centre at Terrace Floor		157	20-Mar-23	03-Jun-23	06-Dec-23	07-Jun-24	
Civil works for Sub Admin Building and Command Control Centre at Terrace Floor		33	20-Mar-23	28-Apr-23	06-Dec-23	13-Jan-24	
P4CSWRTF6770	Stub Columns Casting	10	20-Mar-23	31-Mar-23	06-Dec-23	16-Dec-23	0%
P4CSWRTF6780	Parapet Wall Brick Work	10	01-Apr-23	14-Apr-23	19-Dec-23	01-Jan-24	0%
P4CSWRTF6790	Plastering of Parapet Wall	4	17-Apr-23	21-Apr-23	03-Jan-24	08-Jan-24	0%
P4CSWRTF6800	Painting of Parapet Wall	3	24-Apr-23	27-Apr-23	09-Jan-24	12-Jan-24	0%
P4CSWRTF6810	Completion of Terrace Floor Work	1	27-Apr-23	28-Apr-23	12-Jan-24	13-Jan-24	0%
MEP works for Sub Admin Building and Command Control Centre at Terrace Floor		135	14-Apr-23	03-Jun-23	01-Jan-24	07-Jun-24	
Electrical Works		135	14-Apr-23	24-May-23	01-Jan-24	07-Jun-24	
P4ELSACCTF	CONDUIT LAYING	6	11-May-23	18-May-23	25-Jan-24	02-Feb-24	0%
P4ELSACCTF	MCCB,SFU,MCB,ISOLATOR box	2	27-Apr-23	29-Apr-23	12-Jan-24	15-Jan-24	0%
P4ELSACCTF	LIGHTING & POWER DISTRIBUTION BOARD	4	21-Apr-23	27-Apr-23	08-Jan-24	12-Jan-24	0%
P4ELSACCTF	LIGHT FITTINGS	4	29-Apr-23	05-May-23	15-Jan-24	19-Jan-24	0%
P4ELSACCTF	WIRING FOR POWER & AC SOCKETS Internal	4	19-Apr-23	25-Apr-23	05-Jan-24	10-Jan-24	0%
P4ELSACCTF	WIRING FOR UPS POWER SOCKETS External	4	19-Apr-23	25-Apr-23	05-Jan-24	10-Jan-24	0%
P4ELSACCTF	SWITCH CONTROLLED	2	10-May-23	13-May-23	24-Jan-24	27-Jan-24	0%
P4ELSACCTF	INSTALLATION OF GI WALL BOXES	4	14-Apr-23	19-Apr-23	01-Jan-24	05-Jan-24	0%
P4ELSACCTF	INSTALLATION OF SWITCHES, SOCKETS	4	05-May-23	10-May-23	19-Jan-24	24-Jan-24	0%
P4ELSACCTF	LIFT WIRING	6	10-May-23	17-May-23	24-Jan-24	01-Feb-24	0%
P4ELSACCTF	LIFT INSTALLATION WITH ASSOCIATED ACCESSORIES	10	11-May-23	23-May-23	25-Jan-24	07-Feb-24	0%
P4ELSACCTF	FIRE ALARM AND DETECTION SYSTEM	4	18-May-23	23-May-23	02-Feb-24	07-Feb-24	0%
P4ELSACCTF	Public Address System	4	05-May-23	10-May-23	03-Jun-24	06-Jun-24	0%
P4ELSACCTF	Complete Of Electrical Work	1	23-May-23	24-May-23	07-Jun-24	07-Jun-24	0%
HVAC Works		14	12-May-23	25-May-23	27-Jan-24	13-Feb-24	
P4HVACSeWFI	Installation Of Tray	5	12-May-23	18-May-23	27-Jan-24	02-Feb-24	0%
P4HVACSeWFI	Installation Of Units	5	13-May-23	19-May-23	07-Feb-24	12-Feb-24	0%
P4HVACSeWFI	Installation Of copper Pipe with Insulation	3	12-May-23	16-May-23	27-Jan-24	31-Jan-24	0%
P4HVACSeWFI	Installation Of Ductig	4	12-May-23	17-May-23	27-Jan-24	01-Feb-24	0%
P4HVACSeWFI	Installation Of Ducting Insulation	1	17-May-23	18-May-23	01-Feb-24	02-Feb-24	0%
P4HVACSeWFI	Installation Of Drain pipe Insulation	6	18-May-23	25-May-23	02-Feb-24	08-Feb-24	0%
P4HVACSeWFI	Complete OF HVAC Work	1	25-May-23	25-May-23	12-Feb-24	13-Feb-24	0%
Fire Fighting Works		18	12-May-23	03-Jun-23	27-Jan-24	17-Feb-24	
P4FFSACCTF4	Installation Fire pipe & Hydrant system	8	12-May-23	22-May-23	27-Jan-24	06-Feb-24	0%
P4FFSACCTF4	Installation Fire panel	6	26-May-23	02-Jun-23	10-Feb-24	17-Feb-24	0%
P4FFSACCTF4	Installation of Fire Pump and accessories	4	22-May-23	26-May-23	06-Feb-24	10-Feb-24	0%
P4FFSACCTF4	Complete Of Fire Fighting Work	1	02-Jun-23	03-Jun-23	17-Feb-24	17-Feb-24	0%
Sub Admin Building & CCC Over Head Tank/ LMR Level		35	31-Mar-23	15-May-23	18-Dec-23	10-Jan-24	
Civil works for Sub Admin Building & CCC Over Head Tank/ LMR Level		20	31-Mar-23	26-Apr-23	18-Dec-23	10-Jan-24	
P4CSWRHT3240	Bottom Slab	5	31-Mar-23	05-Apr-23	18-Dec-23	22-Dec-23	0%
P4CSWRHT3250	Tank Walls	2	10-Apr-23	12-Apr-23	27-Dec-23	29-Dec-23	0%
P4CSWRHT3260	Tank Fittings Installation	2	15-Apr-23	17-Apr-23	02-Jan-24	03-Jan-24	0%
P4CSWRHT3270	Internal Plastering	2	17-Apr-23	19-Apr-23	03-Jan-24	05-Jan-24	0%
P4CSWRHT3280	External Plastering	2	17-Apr-23	19-Apr-23	03-Jan-24	05-Jan-24	0%

MUMBAI TRANS HARBOUR LINK

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GENERAL CONSULTANT

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TASK filter: All Activities

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MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4CSWRHT3290	Top Slab	5	19-Apr-23	26-Apr-23	05-Jan-24	10-Jan-24	0%
MEP works for Sub Admin Building & CCC Over Head Tank/ LMR Level		20	19-Apr-23	15-May-23	05-Jan-24	30-Jan-24	
P4CMEP3240	Installation of First Fix	10	19-Apr-23	03-May-23	05-Jan-24	17-Jan-24	0%
P4CMEP3250	Installation of Second Fix	10	03-May-23	15-May-23	17-Jan-24	30-Jan-24	0%
Substation Building Sewri		172	14-Oct-22	10-May-23	27-Nov-23	15-Jun-24	
Civil works for Substation Building Sewri		159	14-Oct-22	24-Apr-23	27-Nov-23	31-May-24	
P4CSSF2130	Total Station Survey and Marking	1	14-Oct-22	15-Oct-22	27-Nov-23	27-Nov-23	0%
P4CSSF2140	Excavation	10	15-Oct-22	28-Oct-22	28-Nov-23	08-Dec-23	0%
P4CSSF2150	PCC	10	28-Oct-22	09-Nov-22	09-Dec-23	20-Dec-23	0%
P4CSSF2170	Foundation Reinforcement	10	09-Nov-22	21-Nov-22	21-Dec-23	02-Jan-24	0%
P4CSSF2180	Foundation Shuttering	7	21-Nov-22	29-Nov-22	03-Jan-24	10-Jan-24	0%
P4CSSF2190	Foundation Casting	8	29-Nov-22	08-Dec-22	11-Jan-24	19-Jan-24	0%
P4CSSF2200	Plinth Beam Reinforcement	8	08-Dec-22	17-Dec-22	20-Jan-24	30-Jan-24	0%
P4CSSF2210	Plinth Beam Shuttering	8	17-Dec-22	27-Dec-22	31-Jan-24	08-Feb-24	0%
P4CSSF2220	Plinth Beam Casting	5	27-Dec-22	02-Jan-23	09-Feb-24	14-Feb-24	0%
P4CSSF2230	Backfilling with Murram	5	02-Jan-23	07-Jan-23	15-Feb-24	20-Feb-24	0%
P4CSSF2240	Compaction	7	02-Jan-23	10-Jan-23	15-Feb-24	22-Feb-24	0%
P4CSSF2250	PCC of Plinth Floor	5	10-Jan-23	16-Jan-23	23-Feb-24	28-Feb-24	0%
P4CSSF2260	Flooring	6	16-Jan-23	23-Jan-23	29-Feb-24	06-Mar-24	0%
Ground Floor Work for Substation Building Sewri		74	23-Jan-23	24-Apr-23	07-Mar-24	31-May-24	
P4CSSGF5460	Column Reinforcement	10	23-Jan-23	04-Feb-23	07-Mar-24	18-Mar-24	0%
P4CSSGF5470	Column Shuttering	10	04-Feb-23	16-Feb-23	19-Mar-24	29-Mar-24	0%
P4CSSGF5480	Column Casting	10	16-Feb-23	01-Mar-23	30-Mar-24	10-Apr-24	0%
P4CSSGF5550	Shuttering of Roof Slab & Roof Beam	10	01-Mar-23	13-Mar-23	11-Apr-24	22-Apr-24	0%
P4CSSGF5560	Reinforcement of Roof Slab & Roof Beam	10	13-Mar-23	24-Mar-23	23-Apr-24	03-May-24	0%
P4CSSGF5570	Casting of Roof Slab & Roof Beam	1	24-Mar-23	25-Mar-23	04-May-24	04-May-24	0%
P4CSSGF5580	Blockwork	5	31-Mar-23	06-Apr-23	11-May-24	17-May-24	0%
P4CSSGF5590	Internal Plastering	2	08-Apr-23	11-Apr-23	18-May-24	21-May-24	0%
P4CSSGF5600	External Plastering	2	08-Apr-23	11-Apr-23	18-May-24	21-May-24	0%
P4CSSGF5602	Internal Painting	6	15-Apr-23	21-Apr-23	24-May-24	31-May-24	0%
P4CSSGF5604	External Painting	6	15-Apr-23	21-Apr-23	24-May-24	31-May-24	0%
P4CSSGF5610	Doors and Windows Framework	3	31-Mar-23	05-Apr-23	11-May-24	15-May-24	0%
P4CSSGF5620	Staircase Work	2	08-Apr-23	11-Apr-23	18-May-24	20-May-24	0%
P4CSSGF5630	Flooring Work	2	10-Apr-23	11-Apr-23	18-May-24	21-May-24	0%
P4CSSGF5640	Doors and Windows Fixing	2	05-Apr-23	08-Apr-23	15-May-24	18-May-24	0%
P4CSSGF5650	Water Proofing of Wet Area	1	08-Apr-23	10-Apr-23	18-May-24	18-May-24	0%
P4CSSGF5660	Completion of Civil Activities at Ground Floor	1	21-Apr-23	24-Apr-23	31-May-24	31-May-24	0%
MEP works for Substation Building Sewri		33	29-Mar-23	10-May-23	09-May-24	15-Jun-24	
P4CMEP2700	Installation of First Fix	13	29-Mar-23	14-Apr-23	09-May-24	23-May-24	0%
P4CMEP2720	Installation of Second Fix	10	14-Apr-23	27-Apr-23	24-May-24	04-Jun-24	0%
P4CMEP2740	Installation of Third Fix	10	27-Apr-23	10-May-23	05-Jun-24	15-Jun-24	0%
Electrical Works		19	06-Apr-23	02-May-23	16-May-24	07-Jun-24	
P4ELSSGF300	CONDUIT LAYING	6	06-Apr-23	13-Apr-23	16-May-24	23-May-24	0%
P4ELSSGF310	MCCB,SFU,MCB,ISOLATOR box	4	18-Apr-23	24-Apr-23	27-May-24	31-May-24	0%
P4ELSSGF320	LIGHTING & POWER DISTRIBUTION BOARD	4	17-Apr-23	21-Apr-23	25-May-24	30-May-24	0%
P4ELSSGF330	LIGHT FITTINGS	6	20-Apr-23	27-Apr-23	29-May-24	05-Jun-24	0%
P4ELSSGF340	WIRING FOR POWER & AC SOCKETS Internal	7	14-Apr-23	24-Apr-23	24-May-24	01-Jun-24	0%
P4ELSSGF350	WIRING FOR UPS POWER SOCKETS External	7	14-Apr-23	24-Apr-23	24-May-24	01-Jun-24	0%
P4ELSSGF360	SWITCH CONTROLLED	2	27-Apr-23	29-Apr-23	04-Jun-24	06-Jun-24	0%
P4ELSSGF370	INSTALLATION OF GI WALL BOXES	6	06-Apr-23	14-Apr-23	17-May-24	23-May-24	0%
P4ELSSGF380	INSTALLATION OF SWITCHES, SOCKETS	4	21-Apr-23	27-Apr-23	30-May-24	04-Jun-24	0%

MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
P4ELSSGF390	FIRE ALARM AND DETECTION SYSTEM	4	13-Apr-23	18-Apr-23	23-May-24	28-May-24	0%	
P4ELSSGF400	Public Address System	4	21-Apr-23	27-Apr-23	03-Jun-24	06-Jun-24	0%	
P4ELSSGF410	Complete Of Electrical Works	1	29-Apr-23	02-May-23	07-Jun-24	07-Jun-24	0%	
Access Roads to Admin Building (Drive ways)		53	24-Feb-23	29-Apr-23	05-Apr-24	06-Jun-24		
P4CMR1540	Total Station Marking and Surveying	3	24-Feb-23	28-Feb-23	05-Apr-24	09-Apr-24	0%	
P4CMR1550	Excavation of Hard Rock	20	28-Feb-23	23-Mar-23	10-Apr-24	02-May-24	0%	
P4CMR1560	Sub Grade Laying	6	04-Mar-23	11-Mar-23	15-Apr-24	20-Apr-24	0%	
P4CMR1570	Watering & Compaction	6	06-Mar-23	13-Mar-23	15-Apr-24	22-Apr-24	0%	
P4CMR1580	GSB Laying	20	06-Mar-23	29-Mar-23	15-Apr-24	08-May-24	0%	
P4CMR1590	DLC	20	06-Mar-23	29-Mar-23	15-Apr-24	08-May-24	0%	
P4CMR1600	Separation Membrane	5	29-Mar-23	04-Apr-23	08-May-24	14-May-24	0%	
P4CMR1610	Providing PQC	20	04-Apr-23	29-Apr-23	14-May-24	06-Jun-24	0%	
Sub station works (BEST & MSEDCL)		481	27-Jan-23	02-Jun-23	18-Apr-23 A	21-Mar-24		
A3060	Application for Power Connection to BEST & MSEDCL	2	27-Jan-23	30-Jan-23	18-Apr-23 A	10-Jun-23 A	100%	
A3070	Power Sanction from BEST & MSEDCL	30	30-Jan-23	02-Mar-23	20-Apr-23 A	10-Jun-23 A	100%	
A3080	HT Execution by BEST & MSEDCL	30	02-Mar-23	01-Apr-23	20-Dec-23	19-Jan-24	0%	
A3090	HT Execution by Contractor	30	03-Apr-23	03-May-23	19-Jan-24	20-Feb-24	0%	
A3100	Testing & Commissioning of Power Supply System	30	02-May-23	02-Jun-23	19-Feb-24	21-Mar-24	0%	
TMS - Toll Management System Shivaji Nagar		51	12-Apr-23	19-Jun-23	27-Apr-24	25-Jun-24		
A1290	Conduit/Cable Tray Installation Work - TMS	50	12-Apr-23	12-Jun-23	27-Apr-24	25-Jun-24	0%	
A1300	Cable Laying Work - TMS	30	02-May-23	05-Jun-23	02-May-24	06-Jun-24	0%	
A1310	Erection of Poles - TMS	20	26-Apr-23	20-May-23	04-May-24	27-May-24	0%	
A1320	Sensors Installation - TMS	20	06-May-23	30-May-23	08-May-24	30-May-24	0%	
A1330	Camera Installation - TMS	20	24-May-23	16-Jun-23	30-May-24	22-Jun-24	0%	
A1340	Panel Installation - TMS	15	25-May-23	12-Jun-23	01-Jun-24	18-Jun-24	0%	
A1350	Cable Termination - TMS	15	27-May-23	14-Jun-23	04-Jun-24	20-Jun-24	0%	
A1360	Racks & Servers Installation - TMS	10	01-Jun-23	13-Jun-23	08-Jun-24	19-Jun-24	0%	
A1370	Server Configuration - TMS	15	01-Jun-23	19-Jun-23	08-Jun-24	25-Jun-24	0%	
TMS - Toll Management System Sewri		46	06-May-23	08-Jul-23	25-Sep-23 A	19-Jun-24		
A3120	Conduit/Cable Tray Installation Work - TMS	30	06-May-23	10-Jun-23	25-Sep-23 A	30-May-24	5%	
A3130	Cable Laying Work - TMS	30	11-May-23	15-Jun-23	27-Apr-24	01-Jun-24	0%	
A3140	Sensors Installation - TMS	20	16-May-23	08-Jun-23	02-May-24	24-May-24	0%	
A3150	Panel Installation - TMS	15	09-Jun-23	27-Jun-23	27-May-24	12-Jun-24	0%	
A3160	Racks & Servers Installation - TMS	10	16-Jun-23	28-Jun-23	03-Jun-24	13-Jun-24	0%	
A3170	Camera Installation - TMS	20	08-Jun-23	04-Jul-23	24-May-24	17-Jun-24	0%	
A3180	Server Configuration - TMS	15	16-Jun-23	08-Jul-23	03-Jun-24	19-Jun-24	0%	
A3190	Erection of Poles - TMS	20	12-May-23	05-Jun-23	29-Apr-24	21-May-24	0%	
A3200	Cable Termination - TMS	15	12-Jun-23	30-Jun-23	29-May-24	14-Jun-24	0%	
ATMS - Advanced Traffic Management System Gavhan		107	28-Apr-23	07-Jun-23	10-Aug-23 A	07-Mar-24		
A1380	Conduit/Cable Tray Installation Work - ATMS	30	28-Apr-23	03-Jun-23	10-Aug-23 A	01-Mar-24	50%	
A1390	Cable Laying Work - ATMS	30	03-May-23	07-Jun-23	12-Aug-23 A	01-Mar-24	50%	
A1400	Erection of Poles - ATMS	20	05-May-23	29-May-23	28-Sep-23 A	07-Mar-24	1%	
A1410	Sensors Installation - ATMS	15	08-May-23	25-May-23	13-Aug-23 A	21-Feb-24	50%	
A1420	Camera Installation - ATMS	10	08-May-23	19-May-23	17-Aug-23 A	19-Feb-24	50%	
A1430	Panel Installation - ATMS	20	09-May-23	01-Jun-23	16-Aug-23 A	24-Feb-24	50%	
A1440	Cable Termination - ATMS	15	10-May-23	27-May-23	11-Aug-23 A	21-Feb-24	50%	
A1450	Racks & Servers Installation - ATMS	20	12-May-23	05-Jun-23	11-Aug-23 A	24-Feb-24	50%	
A1460	Server Configuration - ATMS	15	12-May-23	30-May-23	14-Aug-23 A	21-Feb-24	50%	
Electrical Work On Bridge		546	10-Nov-22	22-Aug-23	27-Jul-23 A	27-Sep-24		
Electrical Works		508	10-Nov-22	18-Jul-23	20-Aug-23 A	19-Aug-24		
P4ELBDG1739	Access Delay	174	10-Nov-22	12-May-23	20-Dec-23	17-Jun-24	0%	



MTHL RWP Till Sep		Classic Schedule Layout				12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
P4ELBDG1740	Installation Support	30	13-Jun-23	13-Jul-23	20-Aug-23 A	14-Aug-24	10%
P4ELBDG1760	Installation Trays	5	13-Jul-23	18-Jul-23	14-Aug-24	19-Aug-24	0%
Cable Works		491	18-Jul-23	08-Aug-23	15-Sep-23 A	04-Sep-24	
P4CWBDG245	Installation Of HT Cable Lot 1	15	18-Jul-23	02-Aug-23	26-Sep-23 A	02-Sep-24	7%
P4CWBDG255	Installation Of HT Cable Lot 2	15	19-Jul-23	04-Aug-23	19-Aug-24	04-Sep-24	0%
P4ELBDG1789	Installation Of LT Cable LOT 1	10	24-Jul-23	02-Aug-23	15-Sep-23 A	02-Sep-24	10%
P4ELBDG1790	Installation Of LT Cable LOT 2	10	24-Jul-23	02-Aug-23	22-Aug-24	02-Sep-24	0%
P4ELBDG1792	Installation Of LT Cable LOT 3	10	25-Jul-23	04-Aug-23	24-Aug-24	04-Sep-24	0%
P4ELBDG1800	Installation Of OFC Cable LOT 1	10	28-Jul-23	08-Aug-23	26-Aug-24	04-Sep-24	0%
P4ELBDG1810	Installation Of OFC Cable LOT 2	10	22-Jul-23	02-Aug-23	19-Aug-24	29-Aug-24	0%
P4ELBDG1811	Cable Jointing & Termination LOT 1	10	23-Jul-23	02-Aug-23	20-Aug-24	30-Aug-24	0%
P4ELBDG1821	Cable Jointing & Termination LOT 2	10	27-Jul-23	07-Aug-23	24-Aug-24	04-Sep-24	0%
P4ELBDG1831	Cable Jointing & Termination LOT 3	6	29-Jul-23	04-Aug-23	27-Aug-24	02-Sep-24	0%
Street Light & High Mast Works		504	13-Jul-23	10-Aug-23	27-Jul-23 A	12-Sep-24	
P4SLWBDG1780	Installation Of Aesthetic Light LOT1	15	18-Jul-23	02-Aug-23	19-Aug-24	03-Sep-24	0%
P4SLWBDG1790	Installation Of Aesthetic Light LOT2	15	24-Jul-23	08-Aug-23	24-Aug-24	10-Sep-24	0%
P4SLWBDG1879	Installation Light Poles LOT 1 & high Mast	15	13-Jul-23	28-Jul-23	27-Jul-23 A	21-Aug-24	90%
P4SLWBDG188	Installation Light Poles LOT 2 & high Mast	15	26-Jul-23	10-Aug-23	28-Aug-24	12-Sep-24	0%
P4SLWBDG1880	Installation Of Navigational Aids Lighting	10	14-Jul-23	24-Jul-23	19-Aug-24	29-Aug-24	0%
P4SLWBDG1890	Installation Of Light Fittings On Light Pole	15	19-Jul-23	04-Aug-23	16-Sep-23 A	06-Sep-24	20%
UPS System Works		37	13-Jul-23	19-Aug-23	19-Aug-24	26-Sep-24	
P4UPSBDG1800	Installation Of UPS System LOT 1	22	13-Jul-23	04-Aug-23	19-Aug-24	10-Sep-24	0%
P4UPSBDG1810	Installation Of UPS System LOT 2	20	31-Jul-23	19-Aug-23	05-Sep-24	26-Sep-24	0%
CSS Works		30	22-Jul-23	21-Aug-23	28-Aug-24	27-Sep-24	
P4CSSBDG1810	Installation Of COMPACT SUB STATIONS	30	22-Jul-23	21-Aug-23	28-Aug-24	27-Sep-24	0%
Installation Of Panel & Feeder Pillars		17	15-Jul-23	02-Aug-23	21-Aug-24	09-Sep-24	
P4FPBDG1820	Installation Of PANELS & FEEDER PILLAR LOT 1	15	15-Jul-23	30-Jul-23	21-Aug-24	05-Sep-24	0%
P4FPBDG1830	Installation Of PANELS & FEEDER PILLAR LOT 2	15	17-Jul-23	02-Aug-23	23-Aug-24	09-Sep-24	0%
Linear Heat Detection System		19	02-Aug-23	21-Aug-23	30-Aug-24	18-Sep-24	
A1679	Cable Laying	15	02-Aug-23	17-Aug-23	30-Aug-24	14-Sep-24	0%
A1680	Installation Of Controller & Sensor	16	05-Aug-23	21-Aug-23	02-Sep-24	18-Sep-24	0%
BEST HV SWITCHING STATION (SEWRI)		15	25-Jul-23	09-Aug-23	31-Aug-24	15-Sep-24	
P4HVSBDG1830	Installation Of High Vlotage Station	15	25-Jul-23	09-Aug-23	31-Aug-24	15-Sep-24	0%
Earthing Works		30	23-Jul-23	22-Aug-23	19-Aug-24	19-Sep-24	
P4EWBDG1760	Pier Earthing and Earth Strips Laying LOT 1	15	07-Aug-23	22-Aug-23	04-Sep-24	19-Sep-24	0%
P4EWBDG1761	Pier Earthing and Earth Strips Laying LOT 2	15	03-Aug-23	18-Aug-23	31-Aug-24	16-Sep-24	0%
P4EWBDG1770	Installation Of Street Light Earthing LOT 1	15	23-Jul-23	07-Aug-23	19-Aug-24	03-Sep-24	0%
P4EWBDG1780	Installation Of Street Light Earthing LOT 2	13	07-Aug-23	21-Aug-23	03-Sep-24	17-Sep-24	0%
Testing & Commissioning		246	21-Apr-23	08-Sep-23	27-Jan-24	08-Oct-24	
T&C-Standalone & Integrated		246	21-Apr-23	08-Sep-23	27-Jan-24	08-Oct-24	
Gavhan		126	25-May-23	22-Jul-23	24-Feb-24	05-Jul-24	
Main Administration and Command Control Centre Building with Tolls, Road & MEP works		74	31-May-23	05-Jul-23	26-Mar-24	11-Jun-24	
Electrical		30	31-May-23	01-Jul-23	10-May-24	11-Jun-24	
A2200	Testing of ACB/ MCCB	5	31-May-23	06-Jun-23	10-May-24	16-May-24	0%
A2210	CT Testing	5	02-Jun-23	07-Jun-23	13-May-24	17-May-24	0%
A2220	Over voltage protection	5	05-Jun-23	09-Jun-23	15-May-24	20-May-24	0%
A2230	Lux measurement	5	07-Jun-23	12-Jun-23	17-May-24	22-May-24	0%
A2240	Insulation Resistance Test	5	08-Jun-23	14-Jun-23	18-May-24	24-May-24	0%
A3250	Power source & connections	5	14-Jun-23	19-Jun-23	24-May-24	29-May-24	0%
A3260	Checking/Testing of Earthing Resistance	5	20-Jun-23	24-Jun-23	30-May-24	05-Jun-24	0%



MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:33	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
A3261	Test Period	6	26-Jun-23	01-Jul-23	05-Jun-24	11-Jun-24	0%	
Fire Fighting		12	21-Jun-23	04-Jul-23	27-Mar-24	09-Apr-24		
A2250	Fire Water Pipe Pressure Testing	5	21-Jun-23	26-Jun-23	27-Mar-24	01-Apr-24	0%	
A2260	Fire Pump testing	5	23-Jun-23	28-Jun-23	29-Mar-24	03-Apr-24	0%	
A2270	Sprinkler Flow Tests	5	26-Jun-23	30-Jun-23	01-Apr-24	05-Apr-24	0%	
A3030	Test Period	5	28-Jun-23	04-Jul-23	03-Apr-24	09-Apr-24	0%	
HVAC		14	20-Jun-23	05-Jul-23	26-Mar-24	10-Apr-24		
A2280	Testing & Commissioning of VRF units	5	20-Jun-23	26-Jun-23	26-Mar-24	01-Apr-24	0%	
A2290	Testing & Commissioning of DX units	5	22-Jun-23	27-Jun-23	28-Mar-24	02-Apr-24	0%	
A2300	Testing & Commissioning of Split AC units	5	24-Jun-23	29-Jun-23	30-Mar-24	04-Apr-24	0%	
A2310	Testing & Air Balancing of HVAC System	5	27-Jun-23	01-Jul-23	02-Apr-24	06-Apr-24	0%	
A3040	Test Period	5	29-Jun-23	05-Jul-23	04-Apr-24	10-Apr-24	0%	
Plumbing		12	21-Jun-23	04-Jul-23	27-Mar-24	09-Apr-24		
A2320	Pipe Pressure Testing	5	21-Jun-23	26-Jun-23	27-Mar-24	01-Apr-24	0%	
A2330	Testing & Commissioning of Potable Water System	5	23-Jun-23	28-Jun-23	29-Mar-24	03-Apr-24	0%	
A2340	Testing & Commissioning of Drainage System	5	26-Jun-23	30-Jun-23	01-Apr-24	05-Apr-24	0%	
A3050	Test Period	5	28-Jun-23	04-Jul-23	03-Apr-24	09-Apr-24	0%	
ELV & BMS		23	31-May-23	24-Jun-23	10-May-24	04-Jun-24		
A2180	FAS/PA/BMS/CCTV Continuity Check	5	31-May-23	06-Jun-23	10-May-24	16-May-24	0%	
A2190	Panel Termination, Power On	5	09-Jun-23	15-Jun-23	20-May-24	25-May-24	0%	
A3020	Interface Check	5	12-Jun-23	16-Jun-23	22-May-24	27-May-24	0%	
A3121	Test Period	5	19-Jun-23	24-Jun-23	29-May-24	04-Jun-24	0%	
A3372	Commissioning	5	14-Jun-23	19-Jun-23	24-May-24	29-May-24	0%	
Food Plazas at Gavhan (G+1).		126	25-May-23	22-Jul-23	24-Feb-24	05-Jul-24		
Electrical		21	30-Jun-23	22-Jul-23	10-Jun-24	02-Jul-24		
A2370	Testing of ACB/ MCCB	10	30-Jun-23	11-Jul-23	10-Jun-24	20-Jun-24	0%	
A2380	CT Testing	5	04-Jul-23	08-Jul-23	13-Jun-24	18-Jun-24	0%	
A2390	Over voltage protection	5	07-Jul-23	12-Jul-23	17-Jun-24	21-Jun-24	0%	
A2400	Lux measurement	5	11-Jul-23	15-Jul-23	20-Jun-24	26-Jun-24	0%	
A2410	Insulation Resistance Test	5	14-Jul-23	19-Jul-23	24-Jun-24	28-Jun-24	0%	
A3210	Test Period	5	17-Jul-23	22-Jul-23	27-Jun-24	02-Jul-24	0%	
Fire Fighting		13	26-May-23	08-Jun-23	01-Mar-24	15-Mar-24		
A2420	Fire Water Pipe Pressure Testing	5	26-May-23	31-May-23	01-Mar-24	07-Mar-24	0%	
A2430	Fire Pump testing	5	29-May-23	03-Jun-23	05-Mar-24	09-Mar-24	0%	
A2440	Sprinkler Flow Tests	5	01-Jun-23	06-Jun-23	08-Mar-24	13-Mar-24	0%	
A3220	Test Period	5	03-Jun-23	08-Jun-23	09-Mar-24	15-Mar-24	0%	
HVAC		16	25-May-23	10-Jun-23	24-Feb-24	12-Mar-24		
A2450	Testing & Commissioning of VRF units	5	25-May-23	30-May-23	24-Feb-24	01-Mar-24	0%	
A2460	Testing & Commissioning of DX units	5	27-May-23	01-Jun-23	27-Feb-24	02-Mar-24	0%	
A2470	Testing & Commissioning of Split AC units	5	30-May-23	05-Jun-23	01-Mar-24	06-Mar-24	0%	
A2480	Testing & Air Balancing of HVAC System	5	02-Jun-23	07-Jun-23	04-Mar-24	09-Mar-24	0%	
A3230	Test Period	5	06-Jun-23	10-Jun-23	07-Mar-24	12-Mar-24	0%	
Plumbing		14	26-May-23	09-Jun-23	01-Mar-24	16-Mar-24		
A2490	Pipe Pressure Testing	5	26-May-23	31-May-23	01-Mar-24	07-Mar-24	0%	
A2500	Testing & Commissioning of Potable Water System	5	29-May-23	03-Jun-23	05-Mar-24	09-Mar-24	0%	
A2510	Testing & Commissioning of Drainage System	5	02-Jun-23	07-Jun-23	08-Mar-24	14-Mar-24	0%	
A3240	Test Period	5	05-Jun-23	09-Jun-23	11-Mar-24	16-Mar-24	0%	
ELV & BMS		24	17-Jun-23	12-Jul-23	10-Jun-24	05-Jul-24		
A3313	FAS/PA/BMS/CCTV Continuity Check	5	17-Jun-23	23-Jun-23	10-Jun-24	15-Jun-24	0%	
A3323	Panel Termination, Power On	5	27-Jun-23	03-Jul-23	19-Jun-24	25-Jun-24	0%	
A3333	Interface Check	5	29-Jun-23	04-Jul-23	21-Jun-24	26-Jun-24	0%	



Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
A3343	Commissioning	5	03-Jul-23	07-Jul-23	25-Jun-24	29-Jun-24	0%
A3353	Test Period	5	07-Jul-23	12-Jul-23	29-Jun-24	05-Jul-24	0%
Shivaji Nagar		133	09-May-23	26-Jul-23	02-Mar-24	19-Jul-24	
Electrical		27	28-Jun-23	26-Jul-23	13-Jun-24	11-Jul-24	
A2540	Testing of ACB/ MCCB	5	28-Jun-23	03-Jul-23	13-Jun-24	19-Jun-24	0%
A2550	CT Testing	5	30-Jun-23	06-Jul-23	17-Jun-24	21-Jun-24	0%
A2560	Over voltage protection	5	03-Jul-23	08-Jul-23	19-Jun-24	24-Jun-24	0%
A2570	Lux measurement	5	05-Jul-23	10-Jul-23	21-Jun-24	26-Jun-24	0%
A2580	Insulation Resistance Test	5	07-Jul-23	12-Jul-23	22-Jun-24	28-Jun-24	0%
A3271	Power source & connections	5	12-Jul-23	18-Jul-23	28-Jun-24	03-Jul-24	0%
A3281	Checking/Testing of Earthing Resistance	5	15-Jul-23	20-Jul-23	01-Jul-24	06-Jul-24	0%
A3282	Test Period	5	20-Jul-23	26-Jul-23	06-Jul-24	11-Jul-24	0%
Fire Fighting		12	26-May-23	08-Jun-23	12-Mar-24	23-Mar-24	
A2590	Fire Water Pipe Pressure Testing	5	26-May-23	01-Jun-23	12-Mar-24	16-Mar-24	0%
A2600	Fire Pump testing	5	29-May-23	02-Jun-23	13-Mar-24	19-Mar-24	0%
A2610	Sprinkler Flow Tests	5	31-May-23	05-Jun-23	15-Mar-24	21-Mar-24	0%
A3292	Test Period	5	02-Jun-23	08-Jun-23	19-Mar-24	23-Mar-24	0%
HVAC		14	05-Jun-23	19-Jun-23	09-Mar-24	23-Mar-24	
A2620	Testing & Commissioning of VRF units	5	05-Jun-23	09-Jun-23	09-Mar-24	14-Mar-24	0%
A2630	Testing & Commissioning of DX units	5	07-Jun-23	12-Jun-23	12-Mar-24	16-Mar-24	0%
A2640	Testing & Commissioning of Split AC units	5	08-Jun-23	14-Jun-23	14-Mar-24	19-Mar-24	0%
A2650	Testing & Air Balancing of HVAC System	5	10-Jun-23	15-Jun-23	15-Mar-24	21-Mar-24	0%
A3302	Test Period	5	14-Jun-23	19-Jun-23	19-Mar-24	23-Mar-24	0%
Plumbing		38	09-May-23	16-Jun-23	02-Mar-24	11-Apr-24	
A2660	Pipe Pressure Testing	5	09-May-23	13-May-23	02-Mar-24	08-Mar-24	0%
A2670	Testing & Commissioning of Potable Water System	5	11-May-23	17-May-23	06-Mar-24	11-Mar-24	0%
A2680	Testing & Commissioning of Drainage System	5	17-May-23	22-May-23	11-Mar-24	16-Mar-24	0%
A3312	Test Period	5	12-Jun-23	16-Jun-23	06-Apr-24	11-Apr-24	0%
ELV & BMS		24	28-Jun-23	22-Jul-23	25-Jun-24	19-Jul-24	
A3363	FAS/PA/BMS/CCTV Continuity Check	5	28-Jun-23	03-Jul-23	25-Jun-24	29-Jun-24	0%
A3373	Panel Termination, Power On	5	07-Jul-23	12-Jul-23	04-Jul-24	09-Jul-24	0%
A3383	Interface Check	5	10-Jul-23	14-Jul-23	05-Jul-24	11-Jul-24	0%
A3393	Commissioning	5	12-Jul-23	18-Jul-23	09-Jul-24	13-Jul-24	0%
A3403	Test Period	5	18-Jul-23	22-Jul-23	13-Jul-24	19-Jul-24	0%
Sewri		138	21-Apr-23	12-Jun-23	13-Feb-24	05-Jul-24	
Electrical		28	15-May-23	12-Jun-23	07-Jun-24	05-Jul-24	
A2710	Testing of ACB/ MCCB	5	15-May-23	19-May-23	07-Jun-24	12-Jun-24	0%
A2720	CT Testing	5	17-May-23	22-May-23	08-Jun-24	14-Jun-24	0%
A2730	Over voltage protection	5	19-May-23	24-May-23	11-Jun-24	15-Jun-24	0%
A2740	Lux measurement	5	22-May-23	27-May-23	14-Jun-24	19-Jun-24	0%
A2750	Insulation Resistance Test	5	24-May-23	29-May-23	17-Jun-24	21-Jun-24	0%
A3303	Test Period	5	07-Jun-23	12-Jun-23	01-Jul-24	05-Jul-24	0%
A3352	Power source & connections	5	29-May-23	03-Jun-23	21-Jun-24	27-Jun-24	0%
A3362	Checking/Testing of Earthing Resistance	5	01-Jun-23	06-Jun-23	25-Jun-24	29-Jun-24	0%
Fire Fighting		12	17-May-23	29-May-23	21-Jun-24	04-Jul-24	
A2760	Fire Water Pipe Pressure Testing	5	17-May-23	22-May-23	21-Jun-24	27-Jun-24	0%
A2770	Fire Pump testing	5	18-May-23	24-May-23	24-Jun-24	29-Jun-24	0%
A2780	Sprinkler Flow Tests	5	20-May-23	25-May-23	26-Jun-24	01-Jul-24	0%
A3322	Test Period	5	24-May-23	29-May-23	29-Jun-24	04-Jul-24	0%
HVAC		17	13-May-23	31-May-23	13-Feb-24	01-Mar-24	
A2790	Testing & Commissioning of VRF units	5	13-May-23	19-May-23	13-Feb-24	17-Feb-24	0%

MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
A2800	Testing & Commissioning of DX units	5	19-May-23	24-May-23	19-Feb-24	23-Feb-24	0%
A2810	Testing & Commissioning of Split AC units	5	22-May-23	26-May-23	20-Feb-24	26-Feb-24	0%
A2820	Testing & Air Balancing of HVAC System	5	23-May-23	29-May-23	22-Feb-24	27-Feb-24	0%
A3332	Test Period	5	26-May-23	31-May-23	26-Feb-24	01-Mar-24	0%
Plumbing		12	06-May-23	18-May-23	21-Feb-24	05-Mar-24	
A2830	Pipe Pressure Testing	5	06-May-23	11-May-23	21-Feb-24	26-Feb-24	0%
A2840	Testing & Commissioning of Potable Water System	5	09-May-23	13-May-23	23-Feb-24	28-Feb-24	0%
A2850	Testing & Commissioning of Drainage System	5	10-May-23	16-May-23	26-Feb-24	01-Mar-24	0%
A3342	Test Period	5	13-May-23	18-May-23	28-Feb-24	05-Mar-24	0%
ELV & BMS		24	21-Apr-23	16-May-23	17-May-24	11-Jun-24	
A3413	FAS/PA/BMS/CCTV Continuity Check	5	21-Apr-23	26-Apr-23	17-May-24	22-May-24	0%
A3423	Panel Termination, Power On	5	01-May-23	05-May-23	27-May-24	31-May-24	0%
A3433	Interface Check	5	02-May-23	08-May-23	28-May-24	03-Jun-24	0%
A3443	Commissioning	5	05-May-23	10-May-23	31-May-24	05-Jun-24	0%
A3453	Test Period	5	10-May-23	16-May-23	05-Jun-24	11-Jun-24	0%
Carriage Way		183	13-Jun-23	08-Sep-23	01-Apr-24	07-Oct-24	
Earthing		11	18-Aug-23	30-Aug-23	16-Sep-24	27-Sep-24	
A2880	Checking/Testing of Earthing Resistance	5	18-Aug-23	23-Aug-23	16-Sep-24	20-Sep-24	0%
A2990	Test Period	5	24-Aug-23	30-Aug-23	21-Sep-24	27-Sep-24	0%
Power source & connections		10	13-Jun-23	23-Jun-23	01-Apr-24	10-Apr-24	
A2890	Power source & connections	5	13-Jun-23	17-Jun-23	01-Apr-24	05-Apr-24	0%
A3000	Test Period	5	17-Jun-23	23-Jun-23	05-Apr-24	10-Apr-24	0%
Cable tray supports, Power cabling, Pole erection		13	22-Aug-23	05-Sep-23	19-Sep-24	03-Oct-24	
A2900	Testing of Transformer	5	22-Aug-23	28-Aug-23	19-Sep-24	25-Sep-24	0%
A2910	Checking & Testing of SCADA Interface	5	26-Aug-23	31-Aug-23	24-Sep-24	28-Sep-24	0%
A2920	CT Testing	5	31-Aug-23	05-Sep-23	28-Sep-24	03-Oct-24	0%
Street Light fixtures		13	22-Aug-23	05-Sep-23	23-Sep-24	07-Oct-24	
A2930	Insulation resistance test	5	22-Aug-23	28-Aug-23	23-Sep-24	28-Sep-24	0%
A2940	Lux measurement	5	26-Aug-23	31-Aug-23	27-Sep-24	02-Oct-24	0%
A2950	Checking & confirmation of Lightning Protection provision	5	31-Aug-23	05-Sep-23	02-Oct-24	07-Oct-24	0%
High mast & HDPE pipe works		21	17-Aug-23	08-Sep-23	10-Sep-24	01-Oct-24	
A2960	Insulation resistance test	5	17-Aug-23	23-Aug-23	10-Sep-24	14-Sep-24	0%
A2970	Lux measurement	5	22-Aug-23	26-Aug-23	13-Sep-24	19-Sep-24	0%
A2980	Checking & confirmation of Lightning Protection provision	8	31-Aug-23	08-Sep-23	23-Sep-24	01-Oct-24	0%
Noc & EIG Clearance		151	24-May-23	23-Aug-23	27-Jan-24	02-Jul-24	
MAB		19	03-Aug-23	23-Aug-23	27-Apr-24	17-May-24	
A3580	Application	2	03-Aug-23	05-Aug-23	27-Apr-24	30-Apr-24	0%
A3590	Inspection & Testing	5	10-Aug-23	16-Aug-23	04-May-24	10-May-24	0%
A3600	Clearance From Government Authorities	2	21-Aug-23	23-Aug-23	15-May-24	17-May-24	0%
Food Plaza 1		21	30-Jun-23	22-Jul-23	27-Jan-24	17-Feb-24	
A3610	Application	2	30-Jun-23	03-Jul-23	27-Jan-24	29-Jan-24	0%
A3620	Inspection & Testing	5	07-Jul-23	13-Jul-23	03-Feb-24	08-Feb-24	0%
A3630	Clearance From Government Authorities	2	20-Jul-23	22-Jul-23	16-Feb-24	17-Feb-24	0%
Food Plaza 2		21	30-May-23	20-Jun-23	10-Jun-24	02-Jul-24	
A3640	Application	2	30-May-23	31-May-23	10-Jun-24	12-Jun-24	0%
A3650	Inspection & Testing	5	06-Jun-23	10-Jun-23	18-Jun-24	22-Jun-24	0%
A3660	Clearance From Government Authorities	2	17-Jun-23	20-Jun-23	29-Jun-24	02-Jul-24	0%
Shivaji Nagar		21	28-Jun-23	19-Jul-23	02-Apr-24	24-Apr-24	
A3670	Application	2	28-Jun-23	29-Jun-23	02-Apr-24	04-Apr-24	0%
A3680	Inspection & Testing	5	05-Jul-23	10-Jul-23	09-Apr-24	15-Apr-24	0%
A3690	Clearance From Government Authorities	2	18-Jul-23	19-Jul-23	22-Apr-24	24-Apr-24	0%

MUMBAI TRANS HARBOUR LINK

GC

GENERAL CONSULTANT

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TASK filter: All Activities

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MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
Sewri		21	24-May-23	14-Jun-23	07-Jun-24	29-Jun-24		
A3700	Application	2	24-May-23	25-May-23	07-Jun-24	10-Jun-24	0%	
A3710	Inspection & Testing	5	31-May-23	05-Jun-23	15-Jun-24	20-Jun-24	0%	
A3720	Clearance From Government Authorities	2	12-Jun-23	14-Jun-23	27-Jun-24	29-Jun-24	0%	
T&C		117	09-May-23	06-Sep-23	24-May-24	08-Oct-24		
MMRDA_PG4_5930	Food Plazas at Gavhan (G+1).	9	28-Jun-23	18-Jul-23	12-Jun-24	22-Jun-24	0%	
MMRDA_PG4_5940	Main Administration and Command Control Centre Building with Tolls, Road & MEP works	9	22-Aug-23	06-Sep-23	27-Sep-24	08-Oct-24	0%	
MMRDA_PG4_5950	Sub Admin Building At Shivaji Nagar	9	22-Aug-23	06-Sep-23	27-Sep-24	08-Oct-24	0%	
MMRDA_PG4_5970	Sub Admin Building At Sewri	9	09-May-23	19-May-23	24-May-24	04-Jun-24	0%	
MMRDA_PG4_5980	Bridge Illumination & Other Related Works	8	26-Aug-23	06-Sep-23	23-Sep-24	01-Oct-24	0%	
Project Completion & Handover		24	22-Aug-23	30-Sep-23	10-Oct-24	07-Nov-24		
MMRDA_PG4_5981	Punch Points Closure & Completion Certificate	10	08-Sep-23	30-Sep-23	10-Oct-24	22-Oct-24	0%	
MMRDA_PG4_7800	Customer Acceptance Handing over of Spare parts & special tools	6	22-Aug-23	02-Sep-23	31-Oct-24	07-Nov-24	0%	
As-Built Documentation		10	18-Sep-23	29-Sep-23	19-Oct-24	31-Oct-24		
MMRDA_PG4_7680	As Built Drawing Submission, O&M manuals & other documentations	10	18-Sep-23	29-Sep-23	19-Oct-24	31-Oct-24	0%	
Price Schedule		345	06-May-22	24-Aug-23	30-Sep-23	21-Sep-24		
Schedule-01 General Items		96	06-May-22	14-Sep-22	30-Sep-23	27-Jan-24		
SP_S1-1000	Performance Security (Section VII, GC Sub-Clause 4.2)	28	10-Aug-22	12-Sep-22	30-Sep-23	03-Nov-23	0%	
SP_S1-1010	Insurance for Works (Section VII GC Sub-Clause 18.2)	28	10-Aug-22	12-Sep-22	30-Sep-23	03-Nov-23	0%	
SP_S1-1020	Insurance for Contractor Equipment (Section VII GC Sub-Clause 18.2)	28	12-Aug-22	14-Sep-22	04-Oct-23	06-Nov-23	0%	
SP_S1-1030	Insurance against injury to Persons & Damage to Property (Section VII GC Sub-Clause 18.3)	28	06-May-22	08-Jun-22	30-Sep-23	03-Nov-23	0%	
SP_S1-1040	Insurance for Contractor Personnel (Section VII GC Sub-Clause 18.4)	28	09-May-22	10-Jun-22	04-Oct-23	06-Nov-23	0%	
SP_S1-1050	Insurance for Design Liability (Section VIII, PC Sub-Clause 18.5)	30	10-Jun-22	15-Jul-22	07-Nov-23	14-Dec-23	0%	
SP_S1-1060	Automobile Liability insurance (Section VIII, PC Sub-Clause 18.6)	28	15-Jul-22	17-Aug-22	15-Dec-23	17-Jan-24	0%	
SP_S1-1070	Allow for Defect Notification Period Services (Section VII GC Clause 11)	30	22-Jul-22	26-Aug-22	22-Dec-23	27-Jan-24	0%	
SP_S1-1080	Provision and maintenance of health & Safety during Completion(SecVII GC Sub-Clause 6.7)	28	22-Jul-22	24-Aug-22	22-Dec-23	24-Jan-24	0%	
Schedule-02 Contractor's Documents		265	16-Sep-22	25-Feb-23	30-Sep-23	01-Jul-24		
SP_S1-1090	Contractor's Docs for all Functional & Quality Control of all Civil works	22	17-Sep-22	14-Oct-22	25-Jan-24	21-Feb-24	0%	
SP_S1-1100	Contractor's Docs for all Functional & Quality Control of all Electrical works	22	17-Sep-22	14-Oct-22	30-Sep-23	28-Oct-23	0%	
SP_S1-1110	Aesthetic Strategy Report and Obtaining NoNo for the same	22	14-Oct-22	10-Nov-22	21-Feb-24	18-Mar-24	0%	
SP_S1-1120	Technical Design docs of all Functional, Civil, Architectural, Bldg, temp works	22	10-Nov-22	07-Dec-22	18-Mar-24	13-Apr-24	0%	
SP_S1-1130	Construction Design documents of all Functional, Civil, Architectural, Bldg, temp works	22	07-Dec-22	02-Jan-23	13-Apr-24	09-May-24	0%	
SP_S1-1140	Preparation and supply of as-built docs (GC Sub-Clause 5.6) & Obtaining NONO	22	02-Jan-23	30-Jan-23	09-May-24	04-Jun-24	0%	
SP_S1-1150	Preparation and supply of Maintenance Manual & Obtaining NONO	22	30-Jan-23	25-Feb-23	05-Jun-24	01-Jul-24	0%	
SP_S1-1160	Submission of samples (GC Sub-Clause 7.2) & Obtaining NoNo	22	24-Dec-22	19-Jan-23	10-Jan-24	06-Feb-24	0%	
SP_S1-1170	All Required Tests during Construction and before Commissioning & Obtaining NONO	22	19-Jan-23	16-Feb-23	06-Feb-24	02-Mar-24	0%	
SP_S1-1180	Technical and Construction Design Document of Electrical 11kV/415V Sub stations Ring & SCADA with NONO	22	24-Dec-22	20-Jan-23	30-Dec-23	25-Jan-24	0%	
SP_S1-1190	Technical & Construction Design Document of ITS Equipment power & Bridge illumination with NONO	22	12-Oct-22	08-Nov-22	23-Oct-23	23-Nov-23	0%	
SP_S1-1200	Technical and Construction Design Document of including MEP Services for Admin Bldg with NONO	22	26-Dec-22	21-Jan-23	01-Jan-24	27-Jan-24	0%	
SP_S1-1210	Technical and Construction Design Document of including MEP Services for CCC Bldg with NONO	22	10-Oct-22	07-Nov-22	01-Dec-23	28-Dec-23	0%	
SP_S1-1220	Technical and Construction Design Document of including MEP Services for Main Toll Plazas with NONO	22	10-Oct-22	07-Nov-22	01-Dec-23	28-Dec-23	0%	
SP_S1-1230	Technical and Construction Design Document of including MEP Services for Ramp Toll Plazas with NONO	22	30-Sep-22	28-Oct-22	30-Sep-23	28-Oct-23	0%	
SP_S1-1240	Three month rolling reports through out the project	22	16-Sep-22	11-Oct-22	30-Sep-23	23-Oct-23	0%	
Schedule-03 Construction Works-1		158	14-Sep-22	10-Jun-23	13-Oct-23	25-Mar-24		
Construction of MAB & OCC - Gavhan		46	19-Nov-22	04-May-23	26-Dec-23	17-Feb-24		
SP_S1-1800	Foundation & Area devopment	4	19-Nov-22	24-Nov-22	26-Dec-23	30-Dec-23	0%	
SP_S1-1810	Ground Floor	4	30-Dec-22	04-Jan-23	02-Jan-24	06-Jan-24	0%	
SP_S1-1820	First Floor	4	14-Feb-23	20-Feb-23	08-Jan-24	12-Jan-24	0%	
SP_S1-1830	Second Floor	4	21-Mar-23	25-Mar-23	13-Jan-24	18-Jan-24	0%	
SP_S1-1850	Terrace	4	28-Apr-23	04-May-23	13-Feb-24	17-Feb-24	0%	

MTHL RWP Till Sep		Classic Schedule Layout					12-Oct-23 12:30	
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete	
Construction SAB & OCC - Shivaji Nagar		73	03-Dec-22	18-Mar-23	10-Nov-23	24-Jan-24		
SP_S1-1860	Foundation	4	03-Dec-22	08-Dec-22	10-Nov-23	17-Nov-23	0%	
SP_S1-1870	Ground Floor	4	21-Jan-23	27-Jan-23	02-Dec-23	07-Dec-23	0%	
SP_S1-1880	First Floor	4	08-Mar-23	13-Mar-23	13-Jan-24	18-Jan-24	0%	
SP_S1-2150	Terrace	6	11-Mar-23	18-Mar-23	18-Jan-24	24-Jan-24	0%	
Construction SAB & OCC - Sewri		20	05-Jan-23	15-Apr-23	06-Dec-23	30-Dec-23		
SP_S1-1890	Foundation	4	05-Jan-23	10-Jan-23	06-Dec-23	09-Dec-23	0%	
SP_S1-1900	Ground Floor	4	18-Mar-23	23-Mar-23	16-Dec-23	21-Dec-23	0%	
SP_S1-1910	First Floor	4	11-Apr-23	15-Apr-23	26-Dec-23	30-Dec-23	0%	
Construction of Portable Office Building for Ramp Toll Plaza - Shivaji Nagar		44	12-Oct-22	03-Dec-22	29-Jan-24	20-Mar-24		
SP_S1-1920	Foundation	4	12-Oct-22	17-Oct-22	29-Jan-24	02-Feb-24	0%	
SP_S1-1930	Ground Floor	4	05-Nov-22	10-Nov-22	21-Feb-24	26-Feb-24	0%	
SP_S1-1940	First Floor	4	29-Nov-22	03-Dec-22	15-Mar-24	20-Mar-24	0%	
Construction of Switching Station - Sewri		51	23-Jan-23	02-May-23	11-Jan-24	11-Mar-24		
SP_S1-1950	Foundation	4	23-Jan-23	28-Jan-23	07-Mar-24	11-Mar-24	0%	
SP_S1-1960	Ground Floor	4	26-Apr-23	02-May-23	11-Jan-24	15-Jan-24	0%	
Construction of Food Plaza Facilities on both sides - Gavhan		64	19-Dec-22	10-Jun-23	28-Oct-23	15-Jan-24		
Food Plaza - 01		39	10-Jan-23	05-Jun-23	11-Nov-23	01-Jan-24		
SP_S1-1970	Foundation	4	10-Jan-23	14-Jan-23	11-Nov-23	20-Nov-23	0%	
SP_S1-1980	Ground Floor	4	31-Mar-23	05-Apr-23	04-Dec-23	08-Dec-23	0%	
SP_S1-1990	First Floor	4	31-May-23	05-Jun-23	27-Dec-23	01-Jan-24	0%	
Food Plaza - 02		64	19-Dec-22	10-Jun-23	28-Oct-23	15-Jan-24		
SP_S1-2000	Foundation	4	19-Dec-22	23-Dec-22	28-Oct-23	02-Nov-23	0%	
SP_S1-2010	Ground Floor	4	28-Feb-23	04-Mar-23	08-Nov-23	11-Nov-23	0%	
SP_S1-2020	First Floor	4	06-Jun-23	10-Jun-23	11-Jan-24	15-Jan-24	0%	
Construction of Main Toll Plaza - Gavhan		36	27-Dec-22	18-Mar-23	18-Oct-23	04-Dec-23		
SP_S1-2030	Toll Plaza Work	4	27-Dec-22	31-Dec-22	18-Oct-23	23-Oct-23	0%	
SP_S1-2040	Toll Plaza	4	17-Feb-23	23-Feb-23	03-Nov-23	08-Nov-23	0%	
SP_S1-2050	Toll Gantry	4	14-Mar-23	18-Mar-23	29-Nov-23	04-Dec-23	0%	
Construction of Six Ramp Toll Plaza - Shivaji Nagar		68	23-Sep-22	15-Apr-23	04-Jan-24	25-Mar-24		
SP_S1-2060	Toll Plaza Work	4	23-Sep-22	28-Sep-22	04-Jan-24	09-Jan-24	0%	
SP_S1-2070	Service Road and Ramp Road Work	4	17-Nov-22	22-Nov-22	12-Feb-24	16-Feb-24	0%	
SP_S1-2080	Taper Road Work	4	11-Apr-23	15-Apr-23	20-Mar-24	25-Mar-24	0%	
Construction of Tunnel for Main Toll Plaza - Gavhan		4	19-Oct-22	11-Mar-23	18-Oct-23	23-Oct-23		
SP_S1-2090	Excavation	4	19-Oct-22	25-Oct-22	18-Oct-23	23-Oct-23	0%	
SP_S1-2100	Tunnel Work	4	07-Mar-23	11-Mar-23	18-Oct-23	23-Oct-23	0%	
Architectural Design of Toll Plaza, Tunnel and Adminstrative Buildings including CCC - NONO		4	14-Sep-22	19-Sep-22	13-Oct-23	18-Oct-23		
SP_S1-2110	Architectural Design of Toll Plaza, Tunnel and Administrative Buildings including CCC - NONO	4	14-Sep-22	19-Sep-22	13-Oct-23	18-Oct-23	0%	
Planning & designing and Construction of all road furniture at main toll plaza and ramp toll plazas		4	28-Oct-22	02-Nov-22	28-Oct-23	02-Nov-23		
SP_S1-2120	Planning & Designing and Construction of all road furniture at main toll plaza and ramp toll plazas	4	28-Oct-22	02-Nov-22	28-Oct-23	02-Nov-23	0%	
Schedule-04 Electrical Works on Bridge & Toll Plazas		272	27-Feb-23	24-Aug-23	15-Dec-23	21-Sep-24		
SP_S1-1341	SCH 401 11kV HV Panel within Switching station (Supply)	6	24-Apr-23	29-Apr-23	25-Dec-23	30-Dec-23	0%	
SP_S1-1342	SCH 401 11kV HV Panel within Switching station (Installation & (Commisioning)	6	31-Jul-23	04-Aug-23	05-Sep-24	11-Sep-24	0%	
SP_S1-1343	SCH 401 SCADA -Supply	6	19-Apr-23	25-Apr-23	21-May-24	27-May-24	0%	
SP_S1-1344	SCH 401 SCADA -(Installation & Commisioning)	6	24-May-23	29-May-23	07-Jun-24	13-Jun-24	0%	
SP_S1-1345	SCH 402 Compact Substations with inbuilt power distribution (Supply)	6	22-Apr-23	28-Apr-23	23-Dec-23	29-Dec-23	0%	
SP_S1-1346	SCH 402 Compact Substations with inbuilt power distribution -(Installation & Commisioning)	6	07-Aug-23	11-Aug-23	12-Sep-24	18-Sep-24	0%	
SP_S1-1361	SCH 404 Outdoor Feeder Pillars (Supply)	6	18-Mar-23	24-Mar-23	04-Jan-24	09-Jan-24	0%	
SP_S1-1362	SCH 404 Outdoor Feeder Pillars -(Installation & Commisioning)	6	31-Jul-23	04-Aug-23	05-Sep-24	11-Sep-24	0%	
SP_S1-1363	SCH 405 11kV HV Cable along with end termination kits (Supply)	9	14-Apr-23	24-Apr-23	27-Dec-23	04-Jan-24	0%	
SP_S1-1364	SCH 405 11kV HV Cable along with end termination kits -(Installation & Commisioning)	6	13-Jul-23	20-Jul-23	10-Aug-24	17-Aug-24	0%	



MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
SP_S1-1390	SCH 406 415LV Cables along with cable end terminations (Supply)	4	14-Apr-23	19-Apr-23	27-Dec-23	01-Jan-24	0%
SP_S1-1391	SCH 406 415LV Cables along with cable end terminations-(Installation & Commisioning)	6	07-Aug-23	12-Aug-23	04-Sep-24	10-Sep-24	0%
SP_S1-1400	SCH 407 Ladder & Perforated cable trays supports within box girder across the MTHL (Supply)	4	13-Mar-23	16-Mar-23	06-Jan-24	10-Jan-24	0%
SP_S1-1401	SCH 407 Ladder & Perforated cable trays supports within box girder across the MTHL-(Installation & Commisioning)	6	18-Jul-23	24-Jul-23	19-Aug-24	24-Aug-24	0%
SP_S1-1410	SCH 408 Galvanized octagonal poles for illumination of road at every 30mtr on outer crash barrier across (Supply)	4	04-Apr-23	10-Apr-23	21-Dec-23	27-Dec-23	0%
SP_S1-1411	SCH 408 Galvanized octagonal poles for illumination of road at every 30mtr on oute r-(Installation & Commisioning)	6	28-Jul-23	04-Aug-23	21-Aug-24	27-Aug-24	0%
SP_S1-1420	SCH 409 Road illumination with 150W to 250W LED Lighting fixture (Supply)	4	20-Mar-23	24-Mar-23	27-Dec-23	01-Jan-24	0%
SP_S1-1430	SCH 409 Road illumination with 150W to 250W LED Lighting fixture-(Installation & Commisioning)	3	11-Jul-23	18-Jul-23	12-Aug-24	15-Aug-24	0%
SP_S1-1450	SCH 412 Earthing for Substations and illumination system across entire MTHL Project (Supply)	4	11-Mar-23	16-Mar-23	29-Mar-24	03-Apr-24	0%
SP_S1-1451	SCH 412 Earthing for Substations and illumination system across entire MTHL Project -(Installation & Commisioning)	6	07-Aug-23	12-Aug-23	03-Sep-24	09-Sep-24	0%
SP_S1-1460	SCH 413 Lightning Protection systems for substations & illumination across entire MTHL Project (Supply)	4	07-Mar-23	11-Mar-23	06-Jan-24	10-Jan-24	0%
SP_S1-1461	SCH 413 Lightning Protection systems for substations & illumination across entire -(Installation & Commisioning)	6	18-Aug-23	24-Aug-23	16-Sep-24	21-Sep-24	0%
SP_S1-1470	SCH 414 150VA UPS with 15min battery backup & 5kVA UPS with 15min battery backup on entire Bridge (Supply)	4	13-Mar-23	16-Mar-23	19-Dec-23	23-Dec-23	0%
SP_S1-1471	SCH 414 150VA UPS with 15min battery backup & 5kVA UPS with 15min battery backup on -(Installation & Commisioning)	6	04-Aug-23	11-Aug-23	10-Sep-24	17-Sep-24	0%
SP_S1-1480	SCH 415 Electrical System (Supply)	4	08-Mar-23	13-Mar-23	27-Jan-24	31-Jan-24	0%
SP_S1-1481	SCH 415 Electrical System (Installation & Commisioning)	6	10-May-23	16-May-23	17-Jun-24	21-Jun-24	0%
SP_S1-1482	SCH 415 Fire Alarm & Fire fighting system System (Supply)	6	31-Mar-23	06-Apr-23	15-Dec-23	21-Dec-23	0%
SP_S1-1483	SCH 415 Fire Alarm System & Fire fighting system (Installation & Commisioning)	6	10-May-23	16-May-23	17-Jun-24	21-Jun-24	0%
SP_S1-1484	SCH 415 RMU, UPS System (Supply)	6	13-Mar-23	18-Mar-23	19-Dec-23	25-Dec-23	0%
SP_S1-1485	SCH 415 RMU, UPS System (Installation & Commisioning)	6	10-May-23	16-May-23	17-Jun-24	21-Jun-24	0%
SP_S1-1490	SCH 416 Electrical, (Supply)	4	08-Mar-23	13-Mar-23	27-Jan-24	01-Feb-24	0%
SP_S1-1491	SCH 416 UPS system, (Supply)	6	13-Mar-23	18-Mar-23	19-Dec-23	25-Dec-23	0%
SP_S1-1492	SCH 416 Fire Alarm System (Supply)	6	31-Mar-23	06-Apr-23	15-Dec-23	21-Dec-23	0%
SP_S1-1493	SCH 416 Mechanical Work inside/outside (Supply)	7	13-Mar-23	18-Mar-23	25-Dec-23	01-Jan-24	0%
SP_S1-1494	SCH 416 Plumbing system (Supply)	7	27-Feb-23	04-Mar-23	23-Jan-24	30-Jan-24	0%
SP_S1-1495	SCH 416 (Installation & Commisioning)	6	09-May-23	15-May-23	23-Feb-24	28-Feb-24	0%
SP_S1-1500	SCH 417 Electrical System (Supply)	4	10-Mar-23	15-Mar-23	23-Apr-24	27-Apr-24	0%
SP_S1-1502	SCH 417 UPS system, (Supply)	6	13-Mar-23	18-Mar-23	19-Dec-23	25-Dec-23	0%
SP_S1-1503	SCH 417 Fire Alarm System & Fire fighting system (Supply)	6	31-Mar-23	06-Apr-23	15-Dec-23	21-Dec-23	0%
SP_S1-1505	SCH 417 (Installation & Commisioning)	6	14-Apr-23	21-Apr-23	29-Dec-23	04-Jan-24	0%
SP_S1-1510	SCH 418 , Electrical System (Supply)	4	13-Mar-23	17-Mar-23	10-Jan-24	13-Jan-24	0%
SP_S1-1511	SCH 418 UPS system (Supply)	6	13-Mar-23	18-Mar-23	19-Dec-23	25-Dec-23	0%
SP_S1-1512	SCH 418 Fire Alarm System & Fire fighting system (Supply)	6	31-Mar-23	06-Apr-23	15-Dec-23	21-Dec-23	0%
SP_S1-1513	SCH 418 Mechanical System (Supply)	7	13-Mar-23	18-Mar-23	25-Dec-23	01-Jan-24	0%
SP_S1-1514	SCH 418 PLUMBING SYSTEM (Supply)	7	27-Feb-23	04-Mar-23	23-Jan-24	30-Jan-24	0%
SP_S1-1516	SCH 418 (Installation & Commisioning)	6	24-May-23	30-May-23	27-Feb-24	04-Mar-24	0%
SP_S1-1520	SCH 419 Electrical System(Supply)	4	10-Mar-23	15-Mar-23	23-Apr-24	27-Apr-24	0%
SP_S1-1521	SCH 419 UPS SYSTEM (Supply)	6	13-Mar-23	18-Mar-23	19-Dec-23	25-Dec-23	0%
SP_S1-1522	SCH 419 Fire Alarm System & Fire fighting system(Supply)	6	31-Mar-23	06-Apr-23	15-Dec-23	21-Dec-23	0%
SP_S1-1524	SCH 419 (Installation & Commisioning)	6	26-Apr-23	02-May-23	29-Mar-24	04-Apr-24	0%
SP_S1-1580	SCH 421, Electrical System (Supply)	4	31-Mar-23	04-Apr-23	15-Dec-23	19-Dec-23	0%
SP_S1-1581	SCH 421 UPS SYSTEM (Supply)	6	13-Mar-23	18-Mar-23	19-Dec-23	25-Dec-23	0%
SP_S1-1582	SCH 421 Fire Alarm System & Fire fighting system (Supply)	6	31-Mar-23	06-Apr-23	15-Dec-23	21-Dec-23	0%
SP_S1-1583	SCH 421 Mechanical System (Supply)	7	13-Mar-23	18-Mar-23	25-Dec-23	01-Jan-24	0%
SP_S1-1584	SCH 421 PLUMBING SYSTEM (Supply)	7	27-Feb-23	04-Mar-23	23-Jan-24	30-Jan-24	0%
SP_S1-1586	SCH 421 (Installation & Commisioning)	7	15-May-23	20-May-23	30-Jan-24	05-Feb-24	0%
SP_S1-2130	SCH 422 Electrical (Supply)	6	13-Mar-23	18-Mar-23	10-Jan-24	16-Jan-24	0%
SP_S1-2131	SCH 422 UPS SYSTEM (Supply)	6	13-Mar-23	18-Mar-23	19-Dec-23	25-Dec-23	0%
SP_S1-2132	SCH 422 Fire Alarm System & Fire fighting system (Supply)	7	27-Feb-23	04-Mar-23	23-Jan-24	30-Jan-24	0%
SP_S1-2133	SCH 422 Mechanical System (Supply)	7	13-Mar-23	18-Mar-23	25-Dec-23	01-Jan-24	0%
SP_S1-2134	SCH 422 DG SETS (Supply)	6	14-Mar-23	20-Mar-23	09-Jan-24	13-Jan-24	0%

MTHL RWP Till Sep		Classic Schedule Layout			12-Oct-23 12:30		
Activity ID	Activity Name	Original Duration	BL Project Start	BL Project Finish	Start	Finish	Activity % Complete
SP_S1-2135	SCH 422 PLUMBING SYSTEM (Supply)	7	27-Feb-23	04-Mar-23	23-Jan-24	30-Jan-24	0%
SP_S1-2140	SCH 422 (Installation & Commisioning)	6	26-May-23	31-May-23	24-Jan-24	30-Jan-24	0%
Schedule-05 Toll Management System		179	23-Dec-22	19-Aug-23	14-Feb-24	10-Sep-24	
SP_S1-1530	Design, Manufacture and Supply of Plant and Equipment supplied from India/ overseas	48	23-Dec-22	20-Feb-23	14-Feb-24	10-Apr-24	0%
SP_S1-1540	Port handling, Port Clearance, Local Transportation, Insurance & Other Incidental Services including Customs Duties	20	20-Feb-23	14-Mar-23	10-Apr-24	03-May-24	0%
SP_S1-1550	Installation Services including all Tests of Toll Management System	60	15-Mar-23	26-May-23	03-May-24	12-Jul-24	0%
SP_S1-1560	Operation and Maintenance Manuals, As-built Drawings & Other Documentation of Toll Management System	30	27-May-23	01-Jul-23	12-Jul-24	16-Aug-24	0%
SP_S1-1570	Training of Toll Management System	22	04-Jul-23	19-Aug-23	16-Aug-24	10-Sep-24	0%
Schedule-06 Advance Traffic Management System		35	31-Mar-23	15-May-23	13-Jan-24	24-Feb-24	
SP_S1-1590	Design, Manufacture and Supply of Plant and Equipment supplied from India	30	31-Mar-23	09-May-23	13-Jan-24	19-Feb-24	0%
SP_S1-1600	Handling, Port Clearance, Local Transportation, Insurance & Other Incidental Services including Customs Duties	30	06-Apr-23	15-May-23	19-Jan-24	24-Feb-24	0%
SP_S1-1610	Installation Services including Tests of Advanced Traffic Management System	30	06-Apr-23	15-May-23	19-Jan-24	24-Feb-24	0%
SP_S1-1620	Operation and Maintenance Manuals, As-built Drawings & Other Docs of Advanced Traffic Management System	30	06-Apr-23	15-May-23	19-Jan-24	24-Feb-24	0%
SP_S1-1630	Training of Advanced Traffic Management System	30	06-Apr-23	15-May-23	19-Jan-24	24-Feb-24	0%
SP_S1-1640	Maintenance Services of Advanced Traffic Management System	30	06-Apr-23	15-May-23	19-Jan-24	24-Feb-24	0%
SP_S1-1650	Fire Fighting Arrangements along the Bridge all Toll plazas, all Administrative and command control centres	30	06-Apr-23	15-May-23	19-Jan-24	24-Feb-24	0%
Schedule-07 Provisional Sums		306	06-May-22	16-Mar-23	30-Sep-23	12-Aug-24	
SP_S1-1660	Factory/Shop Inspection Trips	265	06-May-22	16-Mar-23	30-Sep-23	12-Aug-24	0%
SP_S1-1670	Site Cleaning	262	06-May-22	13-Mar-23	30-Sep-23	08-Aug-24	0%
SP_S1-1680	Additional Environmental Mitigation Measures	264	06-May-22	15-Mar-23	30-Sep-23	10-Aug-24	0%
SP_S1-1690	Additional Safety and Security Measures	264	06-May-22	15-Mar-23	30-Sep-23	10-Aug-24	0%
SP_S1-1700	Additional Tests during completion and or after completion	264	06-May-22	15-Mar-23	30-Sep-23	10-Aug-24	0%
SP_S1-1710	Seminars/Workshops	263	06-May-22	14-Mar-23	30-Sep-23	09-Aug-24	0%
SP_S1-1720	Dispute Board Cost and Expenses	264	06-May-22	15-Mar-23	30-Sep-23	10-Aug-24	0%
SP_S1-1730	Public relations, awareness programs etc.	265	06-May-22	16-Mar-23	30-Sep-23	12-Aug-24	0%
SP_S1-1740	Other Protection Measures	265	06-May-22	16-Mar-23	30-Sep-23	12-Aug-24	0%
SP_S1-1750	Bridge Illumination	263	06-May-22	14-Mar-23	30-Sep-23	09-Aug-24	0%
SP_S1-1760	Utility Shifting/Relocation on Land Section	264	06-May-22	15-Mar-23	30-Sep-23	10-Aug-24	0%
SP_S1-1770	Day works	264	06-May-22	15-Mar-23	30-Sep-23	10-Aug-24	0%
SP_S1-1780	Pedestrian Facilities	250	06-May-22	27-Feb-23	30-Sep-23	25-Jul-24	0%
SP_S1-1790	Firefighting arrangements	264	06-May-22	15-Mar-23	30-Sep-23	10-Aug-24	0%
SP_S1-1795	Aesthetic and Landscaping Lighting	266	06-May-22	09-Mar-23	30-Sep-23	01-Jul-24	0%

MUMBAI TRANS HARBOUR LINK

GC

GENERAL CONSULTANT

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TASK filter: All Activities

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Attachment 10- Project Progress Photos for Sept 2023



Package 1



Figure 1: Anti carbonation painting with new shade & drainage system installation in progress at Ramp A



Figure 2: Anti carbonation painting with new shade & drainage system installation in progress at Ramp C1 & Ramp B





Figure 3: Longitudinal Expansion joint completed at C1 Ramp



Figure 4: Longitudinal Expansion joint installation in progress at Ramp B



Figure 5: Anticarbonation painting in progress at Ramp E



Figure 6: Noise barrier installation & crash barrier handrail fixing in progress





Figure 7: Main bridge alignment



Figure 8: Crash barrier painting in progress



Figure 9: Drainage System Installation completed - Intertidal

Package – 2 Site Progress Photos



Figure 10: Runner Pipe Erection in Progress



Figure 11: JM ramp runner pipe erection in progress

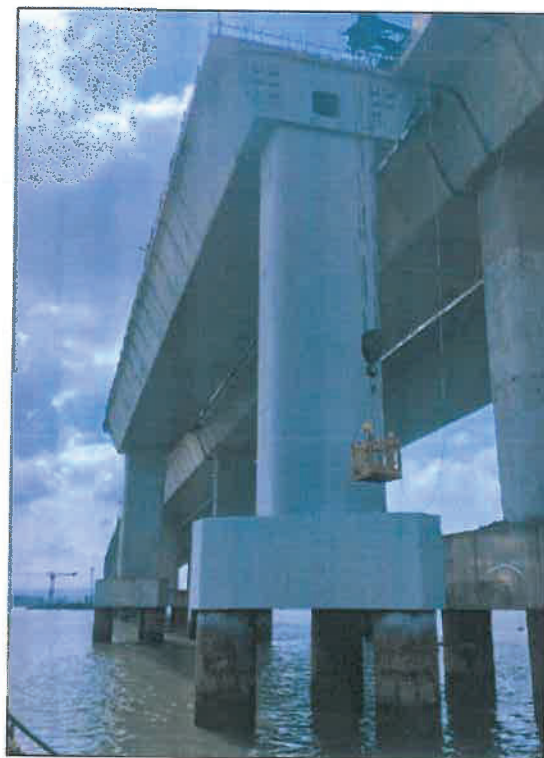


Figure 12: Rescue span painting in progress



Figure 13: Deck water proofing at OSD section



Figure 14: Deck water proofing at OSD section



Figure 15: Hybrid rail fixing in progress



Figure 16: Expansion joint Rebar fixing in progress.

Package 3 – Site Progress Photos



Location: Pier ID 273 ,274, 275 & 276 (LHS & RHS)

Description: Asphalt Pavement work Complete

Figure 17: Gavan Overview



Location: Ch. 18+910 to Ch. 19+050

Description: At Grade Work in Progress

Figure 18: At grade start point





Location: Ch. 19+190 to Ch. 19+250
Description: At Grade Work in Progress

Figure 19: At grade



Location: Ch. 19+920 to Ch. 20+020
Description: At Grade Work in Progress

Figure 20: Toll Plaza area



Location: Jasai at RP 1, RP 2, RP 3 & RP 4
Description: Asphalt Pavement work in progress

Figure 21: Jasai Viaduct 2



Location: Jasai at MPP 2, MPP 3 & MPP 4
Description: Asphalt Pavement work in progress

Figure 22: Jasai viaduct 2



Location: Jasai at MPP 1 & MPP 2

Description: Asphalt Pavement work in progress

Figure 23: Jasai viaduct 2



Package – 4 Site Progress Photos



Figure 24: Gavhan Taper road - RHS side PQC under progress



Figure 25: Food Plaza-1- First floor slab shuttering fixing is in progress.



Figure 26: Flood plaza 2- First floor slab casting completed



Figure 27: Gavhan Toll Plaza - LHS & RHA side gantry fixing is completed



Figure 28: Gavhan main building - 2nd floor slab casted, Ground & first floor block work & plastering in progress.





Figure 29: Shivaji nagar Sub-admin building- reinforcement fixing, binding and shuttering work is in progress



Figure 30: Sewri Sub admin building - First floor slab shuttering & block work is in progress

Annexure-1 JICA Reimbursement backup July'2023



Reimbursement details for the month of July 2023

Date of disbursement	Amount of Disbursement in JPY
14-Jul-23	JPY 885,889,349
14-Jul-23	JPY 322,094,828
14-Jul-23	JPY 194,549,016
14-Jul-23	JPY 79,805,449
14-Jul-23	JPY 880,068,927
14-Jul-23	JPY 160,306,614
14-Jul-23	JPY 1,150,559,789
14-Jul-23	JPY 98,429,980
14-Jul-23	JPY 12,180,575
14-Jul-23	JPY 179,422,023
14-Jul-23	JPY 38,447,612
28-Jul-23	JPY 266,367,157
Total	JPY 4,268,121,319



Reimbursement details for the month of July 2023

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14-Jul-23	JPY 885,889,349
14-Jul-23	JPY 322,094,828
14-Jul-23	JPY 194,549,016
14-Jul-23	JPY 79,805,449
14-Jul-23	JPY 880,068,927
14-Jul-23	JPY 160,306,614
14-Jul-23	JPY 1,150,559,789
14-Jul-23	JPY 98,429,980
14-Jul-23	JPY 12,180,575
14-Jul-23	JPY 179,422,023
14-Jul-23	JPY 38,447,612
28-Jul-23	JPY 266,367,157
Total	JPY 4,268,121,319



Annexure-2 JICA Reimbursement backup August'2023



Reimbursement details for the month of August 2023

Date of disbursement	Amount of Disbursement in JPY
01-Aug-23	JPY 15,817,073
08-Aug-23	JPY 188,529,169
22-Aug-23	JPY 3,520,013
Total Amount	JPY 207,866,255



Annexure-3 JICA Reimbursement backup Sept'2023



Reimbursement details for the month of Sept 2023

Date of Disbursement	Amount of Disbursement in JPY
5-Sep-23	JPY 323,728,803
5-Sep-23	JPY 36,135,637
5-Sep-23	JPY 3,012,862
21-Sep-23	JPY 1,204,255,623
21-Sep-23	JPY 1,244,791,934
21-Sep-23	JPY 69,716,245
Total Amount	JPY 2,881,641,104



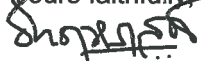
**AECOM****PADECO****dar****TYLIN**
INTERNATIONAL**General Consultant for Mumbai Trans Harbour Link Project****Ref No: MTHL/GC/MMRDA/LT/QPR- 4037 /2023****2nd February 2023**

To,
Engineer-In-Chief
Engineering Division
Mumbai Metropolitan Regional Development Authority (MMRDA)
2nd Floor, New MMRDA Building,
Plot No R-06 & R-12, 'E' Block
Bandra Kurla Complex, Bandra (E),
Mumbai, Maharashtra, India 400051.

Sub: General Consultancy services for Mumbai Trans Harbour Link (MTHL) project – Submission of the Draft Quarterly Progress Report (QPR) No. 27 for October-November-December 2023 for review.

Dear Sir,

With reference to the above subject, please find enclosed a hard copy of the draft for Quarterly Progress Report (QPR) No.27 along with the updated attachments for the period of October to December 2023 for your review.

Thanking you,
Yours faithfully,


K.R.Shivananda
The Engineer
General Consultant (MTHL)

Encl: A draft copy of the Quarterly Progress Report No. 27 (October-December 2023)

CC: Superintending Engineer – MMRDA - Mr. Purushottam Nimje
Executive Engineer – MMRDA – Mr. Arjun Korgaonkar
Superintending Engineer – MMRDA - Mr. Yatin Sakhalkar
Executive Engineer – MMRDA – Mr. Abhijit Bhisikar
Executive Engineer – MMRDA – Mr. M. P. Singh

By Email



एम एम आर डी ए
MMRDA

Mumbai Metropolitan Region Development Authority

Mumbai Trans Harbour Link Project

**Quarterly Progress Report - No.
27**

(From 1st October to 31st December 2023)



Mumbai Trans Harbour Link Project
Quarterly Progress Report No. 27
1st October 2023 to 30th December 2023
Loan Agreement No. ID-P255 (Tranche-I), ID-P283 (Tranche-II)
& ID-307 (Tranche-III)

ORGANIZATION INFORMATION

Borrower	Mumbai Metropolitan Region Development Authority	
	Person in Charge	Metropolitan Commissioner, MMRDA
	Contact Address	M.M.R.D.A. New Office Building, Bandra-Kurla Complex, Plot no. R-5, R-6 & R-12, E Block, Bandra (East), Mumbai - 400051 Phone: +91-22-26594000 Fax No:+91-22-2659 1264
Executing Agency	Mumbai Trans Harbour Link Project Implementation Unit	
	Headed by:	Engineer-In-Chief Mumbai Trans Harbour Link Project Implementation Unit
	Contact Address	M.M.R.D.A. New Office Building, Bandra-Kurla Complex, Plot no. R-5, R-6 & R-12, E Block Bandra (East), Mumbai - 400 051 Phone: +91-22-2659 4034 Fax No: +91-22-2659 4179

Details of JICA Loan

Source of Finance	JICA ODA Loan Portion:	238,572 million Japanese YEN (JPY)
	Tranche-I:	144,795 million Japanese YEN (JPY) (Loan Agreement signed on 31 st Mar 2017)
	Tranche-II:	66,909 million Japanese YEN (JPY) (Loan Agreement signed on 27 th Mar 2020)
	Tranche-III:	30,755 million Japanese YEN (JPY) (Loan Agreement signed on 27 th Feb 2023)
Terms and Conditions of JICA ODA Loan (Tranche-1)	Repayment Period:	30 years, including 10 years of the grace period.

Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 27 (Oct-Dec 2023)

DOCUMENT VERIFICATION AND REVISION RECORD

DOCUMENT TRACKING AND REVISION RECORD					
PROJECT NAME		Mumbai Trans Harbour Link Project			
DOC NO.		27	DATE OF ISSUE		31/01/2023
DOC TITLE		Quarterly Progress Report No. 27			
REV No.	DATE OF ISSUE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY
R0	05/07/2017	Quarterly Progress Report No. 1 (Apr-Jun 17)	J Senthil	Dr T K Sundaram	Dr Robin Sham
R0	05/10/2017	Quarterly Progress Report No. 2 (Jul-Sep 17)	J Senthil	Dr T K Sundaram	Dr Robin Sham
R0	05/01/2018	Quarterly Progress Report No. 3 (Oct-Dec 17)	J Senthil	Dr T K Sundaram	Dr Robin Sham
R0	05/04/2018	Quarterly Progress Report No. 4 (Jan-Mar 18)	J Senthil	Dr T K Sundaram	Dr Robin Sham
R0	24/07/2018	Quarterly Progress Report No. 5 (Apr-Jun 18)	Prashant B	Dr T K Sundaram	Dr Robin Sham
R0	10/10/2018	Quarterly Progress Report No. 6 (Jul-Sep 18)	Prashant B	Dr T K Sundaram	Dr Robin Sham
R1	08/02/2019	Quarterly Progress Report No. 7 (Oct-Dec 18)	Prashant B	J Senthil/ Dr T K Sundaram	Dr Robin Sham
R0	05/04/2019	Quarterly Progress Report No. 8 (Jan-Mar 19)	Prashant B	J Senthil	V. D. Sharma/ Dr Robin Sham
R0	18/09/2019	Quarterly Progress Report No. 9 (Apr-Jun 19)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	13/11/2019	Quarterly Progress Report No. 10 (Jul-Sep 19)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	11/02/2020	Quarterly Progress Report No.11 (Oct-Dec 19)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	25/11/2020	Quarterly Progress Report No.12 (Jan-Mar 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	15/12/2020	Quarterly Progress Report No.13 (Apr-Jun 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	06/01/2021	Quarterly Progress Report No.14 (Jul-Sept 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	12/02/2021	Quarterly Progress Report No.15 (Oct-Dec 20)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	06/05/2021	Quarterly Progress Report No.16 (Jan-Mar 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	30/07/2021	Quarterly Progress Report No.17 (Apr-Jun 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	11/11/2021	Quarterly Progress Report No.18 (Jul - Sep 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	17/01/2022	Quarterly Progress Report No.19 (Oct-Dec 21)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	22/04/2022	Quarterly Progress Report No.20 (Jan - Mar 22)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	12/07/2022	Quarterly Progress Report No.21 (Apr-Jun 22)	Prashant B	Mr. Som Ghosh	Dr Robin Sham
R0	18/10/2022	Quarterly Progress Report No.22 (Jul-Sep 22)	Prashant B	Mrs. Mayil. K	Dr Robin Sham
R0	10/01/2023	Quarterly Progress Report No.23 (Oct-Dec 22)	Mrs. Mayil.	Mr. Som Ghosh	Dr Robin Sham
R0	16/04/2023	Quarterly Progress Report No.24 (Jan-Mar 23)	Mrs. Mayil.	Mr. Som Ghosh	Dr Robin Sham
R0	01/08/2023	Quarterly Progress Report No.25 (Apr-Jun 23)	Mr. Ayush Kottary	Mr. Som Ghosh	Mr. Shivananda. K
R0	31/01/2024	Quarterly Progress Report No.26 (Jul-Sep 23)	Mr. Ayush Kottary	Mr. Som Ghosh	Mr. Shivananda. K
R0	31/01/2024	Quarterly Progress Report No.27 (Oct-Dec 23)	Mr. Ayush Kottary	Mr. Som Ghosh	Mr. Shivananda. K

QPR-27 1st Oct 2023 to 31st Dec 2023



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1.0 PROJECT DESCRIPTION

1.1 Project Objective

Original:

To improve connectivity in Mumbai Metropolitan region by constructing the Mumbai Trans Harbour Link connecting Mumbai with Navi Mumbai, thereby contributing to mitigation of traffic congestion and promoting regional economic development.

Actual (P/R, PCR)

There is no change in the Project Objective.

1.2 Necessity of the Project

The Project is consistent with the development policy, sector plan, national/regional development plans and demand of target group of the recipient country.

Benefits from MTHL Project

- Saving in travel time for commuters from Mumbai to Navi Mumbai.
- Improved comfort and accessibility between the island and the mainland.
- Reduced operating costs of vehicles due to lesser congestion.
- Smooth traffic flow from Navi Mumbai airport to Mumbai Island.
- Accelerated economic development of Navi Mumbai and nearby regions.
- Greater economic integration of Mumbai Island with Navi Mumbai and extended regions of Pune, Goa, Panvel and Alibaug.
- Improvement in environment and reduced pollution levels.
- Improved safety due to reduction in accidents.
- Improvement in trade competitiveness through faster and improved logistics.
- Accelerated growth of Navi Mumbai.
- Decongestion of Mumbai Island and dispersal of population to Navi Mumbai region & beyond.

Necessity of the Project

1. Although the urbanization in India has been rapidly progressing, infrastructure development in the urban areas has not caught up its progress. Particularly, the traffic congestion in the urban areas due to a lack of road network hinders the economic development. Thus, Government of India (GOI) places transport and connectivity as one of the "Growth Enablers" and plans to enhance road network in the "Three Year Action Agenda 2017-2018 to 2019-20 (NITI Aayog)".
2. Mumbai Metropolitan Region, which includes Mumbai and Navi Mumbai, has about 18.4 million people in population as of 2011 (Census 2011) and the population density reaches 20,694 people per square km in the center of Mumbai, which is one of the most overpopulated and high-density cities in the world.
3. Mumbai, the narrow stretch of land that has traditionally been the epicentre of India's commerce, has seen a steady increase in population in the last three decades despite obvious spatial constraints. Thus, the development of Navi Mumbai has been identified as an urgent requirement for broad development in Mumbai Metropolitan Region.
4. There is no change in the Necessity of the Project preamble. jurisdiction, has been facilitating

various development plans particularly in Navi Mumbai area, which stands at the opposite site of Mumbai across the Mumbai Bay and still has spacious area for development, such as a new international airport, Special Economic Zone (SEZ) and expansion of Jawaharlal Nehru Port in order to promote the sustainable economic development in Mumbai Metropolitan Region.

5. Furthermore, a lack of connectivity in Mumbai has stunted its growth. The GoM has given importance to construct the faster connection with Mumbai to Navi Mumbai International Airport, Jawaharlal Nehru Port, Mumbai-Pune expressway and main hinterland.
6. Accordingly, the Mumbai Trans Harbour Link (MTHL) has been identified as the important infrastructure to improve the connectivity between Mumbai and Navi Mumbai and continue economic development in Mumbai Metropolitan Region.

The MTHL is proposed to be developed as an expressway link comprising of a dual three-lane main carriageway bridge connecting Sewri in Mumbai to Chirle in Navi Mumbai. When completed, MTHL will reduce the distance between Mumbai and Navi Mumbai and will help save approximately an hour in travel time. Also, development of Navi Mumbai along with the imminent construction of the Navi Mumbai airport will lead to increased traffic between Mumbai and Navi Mumbai. Consequently, the project is envisaged to; improving accessibility between Mumbai and Navi Mumbai, accelerating growth of Navi Mumbai, smooth traffic flow from Navi Mumbai airport to Mumbai, accelerating economic development of Navi Mumbai and surrounding regions, greater economic integration of Mumbai with Navi Mumbai and extended regions of Pune, Goa, Panvel and Alibaug, and decongestion of Mumbai and dispersal of population to Navi Mumbai region and beyond.

7. The Comprehensive Transportation Study (CTS) for Mumbai Metropolitan Region which was guided by Mumbai Metropolitan Region Development Authority (MMRDA) and supported by World Bank, was completed in July 2008, which was over 25 years after the issuance of the last comprehensive transport study. The report provided a vision for Mumbai's future transportation as seamless and integrated system, in which commuters can make their journeys safely and conveniently by various modes of transport, particularly by public transport, and recommended the development of Multi Modal Corridor to take care of the varied travel demands of the region for the period up to 2031. The CTS proposed to develop the highway network in the region. The MTHL has been regarded as the priority road for Mumbai, considering its function and importance connecting between Mumbai and Navi Mumbai.

8. Necessity of the Project: - To promote economic development in Mumbai Metropolitan Region it is essential to improve the connectivity between Mumbai and Navi Mumbai, by constructing MTHL

Actual (P/R, PCR)

There is no change in the Necessity of the Project preamble.



1.3 Rationale of the Project Design

- Timing, Scale, Technology of the Project:

Demand Analysis

- At the opening year 2022, the daily traffic on the main bridge is expected to be 39,300 PCU. The traffic is projected to increase up to 103,900 by 2032 and up to 145,500 by the year 2042. The daily breakdown by vehicle class on the main bridge link is presented in the Table 1.3.1 below:

Table 1.3.1 Demand Projections Over the Period

Vehicle Type	Between Sewri Interchange and Shivaji Nagar Interchange			Between Shivaji Nagar Interchange and Chirle Interchange		
	2022	2032	2042	2022	2032	2042
Car	24,100	66,400	94,100	4,900	21,300	43,300
Taxi	2700	14,100	20,200	100	400	2,300
Bus	2,700	3,700	3,700	2,700	3,700	3,700
LCV	2,200	4,100	5,600	700	1,300	1,800
HCV	3,000	6,500	8,100	1,000	2,000	2,200
MAV	4,600	9,100	13,800	400	900	1,700
Total	39,300	103,900	145,500	9,800	29,600	55,000

LCV: Light Commercial Vehicle; HCV: Heavy Commercial Vehicle; MAV: Multi Axle Vehicle

- At the opening year in 2022, the traffic flow on MTHL represents a diversion of 10% on the traffic across Thane creek which will increase up to 16% in 2032. If only Thane Creek Bridge is considered, then the diverted traffic from the bridge will be 21% in 2022 which will rise up to 35% in 2032.
- 6-lane of main carriageway was decided by GoM. It was reviewed based on the forecasted result of future traffic volume by Manual of Specification and Standards for Expressways (IRC: SP:99-2013). The result of the review shows that 6-lane will be required in 2032 (10 years later after traffic open). Although, 8-lane will be required in 2042, it is assumed that the level of service of MTHL would be maintained as additionally metro might be constructed in parallel with MTHL.

Design Parameters / Overall Design

- The MTHL which is 21.8 km long road bridge partly on the land and partly over the creek across the Mumbai Bay between Sewri in Mumbai and Chirle in Navi Mumbai, is to be constructed with the approach sections and interchanges. ITS (Intelligence Transport System) and the other necessary facilities will be provided for full access-controlled bridges.
- As per the provisions of IRC (Indian Road Congress) SP:99-2013, the Width of each lane of the Main Carriageway is 3.5 meters.
- When the design speed is 100 km/h according to the traffic demand forecast the large vehicle, ratio will be as low as 9.4% (2022).
- The shoulder width of bridge towards outside of each carriageway is 2.5 meters and towards median side of each carriageway is 0.75 meters.
- The major portion of MTHL structure is on sea and partly towards ends is on land with different type and with different span, viz., PC box girder with 50 m spans which is

typically applied on marine viaduct since, it is economical, easy to construct and maintain.

9. On the land portion, the PC box girder having span of generally 30m is used.
10. As far as the location in which long span (150-180 m) is required to cross significant obstacles, such as navigation channels, pipelines and creeks, the steel box girder bridge with steel deck is proposed with large block erection method to shorten the construction period.
11. The project is coded with three lanes of traffic in each direction. The reference toll is presented in the Table 1.3.2 below for each vehicle class in Year 2022 (based on 2015 monetary value reflecting price escalation).

Table 1.3.2: Base Toll Rates (Rs) for different class of vehicles between Interchanges

Vehicle Type	Sewri to Shivaji Nagar	Shivaji Nagar to Chirle	Total
Car	180	60	240
Bus	420	130	550
LCV	240	70	310
HCV	420	130	550
MAV	600	180	780

Intelligent Transport Systems (ITS) and Toll Management System (TMS)

12. The Toll Management System will be implemented in MTHL to collect tolls from all road users of MTHL. Two types of toll collection method will be adopted: Electronic Toll Collection (ETC) and Manual (paying by cash).
13. The lanes corresponding to these toll collection methods are dedicated ETC lanes and Manual lanes, and Manual system shall be installed to ETC lanes for backup to be able to cope at the time of the trouble of ETC equipment failure.

Traffic management System

14. Traffic Management System is a support system to Manage the traffic on MTHL safely and efficiently. The System consists of the information collection system including Closed-Circuit Television (CCTV), Emergency Call Box (ECB), Automatic Traffic Counter-Cum-Classifer (ATCC) and Meteorological Data System (MDS), and Information Dissemination System including Variable message Sign (VMS).
15. CCTV Cameras shall be installed at around three places per 1 km, on Both side of main route and the monitoring of the traffic condition of the whole stretch of MTHL will be almost enabled in the Traffic Control Centre and VMS displays the appropriate information for road users on the collated information.
16. The Information collected by these devices shall be transmitted to the Command Control Centre through the medium of an Optical Fiber Cable laid in MTHL.

Actual (P/R, PCR)

There is no change in the Rationale of the Project Design.

2.0 PROJECT IMPLEMENTATION

2.1 Project Scope

Refer Table 2.1.1 and 2.1.2 for details on Scope of the Project.

Table 2.1.1 Comparison of Original and Actual location

Location	Original: (P/M) Mumbai Metropolitan Region Development Authority, Mumbai, State of Maharashtra	Actual: (P/R and PCR)
-----------------	--	------------------------------

Table 2.1.2 Comparison of Original and Actual Scope

Items	Original	Actual
Construction work: 6-lane Marine Bridge Road (21.8 km)		
Package-1 Ch 0+000-10+380 (10.380 km)	<ul style="list-style-type: none"> • 1 Interchange (Sewri) • Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder) • Viaduct Substructure (RC Concrete Structure) • Viaduct Foundation (Bored piles) • Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	(P/R and PCR)
Package-2 Ch 10+380-18+187 (7.80 km)	<ul style="list-style-type: none"> • 1 Interchange (Shivaji Nagar) • Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder) • Viaduct Substructure (RC Concrete Structure) • Viaduct Foundation (Bored piles) • Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	(P/R and PCR) Actual: No View Barriers
Package-3 Ch 18+187-21+800 (3.61 km)	<ul style="list-style-type: none"> • 2 Interchanges (State Highway-54, National Highway-4B) • Viaduct superstructure (Marine Portion: PC Box Girder & Steel Box Girder with Steel Slab Land Portion: PC Box Girder & PC-I Girder & Steel Truss Girder for Rail-over-Bridges (ROB)) • Viaduct Substructure (RC Concrete Structure) • Viaduct Foundation (Bored piles) • Cutting Section (6-lane with Slope Protection) 	(P/R and PCR) Actual: No Noise Barriers & View Barriers

Items	Original	Actual
	<ul style="list-style-type: none"> Road Furniture and roadside facilities (Traffic Signs and Pavement Marking, Traffic Safety Devices, Crash Barrier, Drainage Structures, Noise Barriers, View Barriers) 	
Package-4 ITS (Intelligent Transport System)	<ul style="list-style-type: none"> Administrative Buildings Toll Booths (1 for main alignment and each on and off ramps for 3 interchanges) Traffic Management System (Traffic Control Centre, Closed Circuit Television (CCTV), Meteorological Observation System (MET), Emergency Call Box (ECB), Automatic traffic Counter-cum-Classifer (ATCC), Variable Message Sign (VMS)) Highway Lighting (Whole sections Low-positioned lighting for some sections) Electrical Powering System including HV/ LV Ring Network across the Bridge. 	<i>(P/R and PCR)</i>
Consulting Services	<ul style="list-style-type: none"> Tender Assistance Construction Supervision Facilitation of Implementation of Environmental Management Plan (EMP), Environmental Monitoring plan (EMoP). 	<i>(P/R and PCR)</i>

2.2 Implementation Schedule

2.2.1 The Original Implementation Schedule

Table 2-2-1 Comparison of Original and Actual Schedule

Items	Original	Status (P/R and PCR) as on 31 st December 2023
1) Completion of Land Acquisition and Resettlement	Mar 2019	Dec 2022
2) Consulting Services		
a) Selection of Consultant	May – Dec 2016	May – Dec 2016
b) Consultancy Works	Dec 2016 – Sep 2022	Oct 2022 – Mar 2024 (Extended)
3) Selection of Contractor		
Package-1, Package-2 & Package-3 (Civil)		
a) Pre-Qualification Process	May – Dec 2016	May – Dec 2016
b) Main Bidding	Jan– Dec 2017	Jan – Dec 2017
c) JICA's Concurrence of Contract	Feb-2018	Feb-2018
Package-4 (ITS)		
a) Pre-Qualification Process	Single Stage Bidding as concurred by JICA	
b) Main Bidding	June 2019 – Sep 2020	Jan 2021 – Dec 2021
4) Civil Construction		
Package-1 and Package-2	Mar 2018 – Sep 2022	Mar 2018–Sep 2023 (Extended)
Package-3	Mar 2018 – Sep 2021	Mar 2018 – Aug 2023 (Extended)
Package-4	June 2022 – Sep 2023	June 2022 – Sep 2023
5) Defect Liability Period		
Package-1 and Package-2	Oct 2022 – Sep 2024	Oct 2023 – Sep 2025
Package-3	Oct 2021 – Sep 2023	Sep 2023 – Aug 2025
Package-4	Oct 2023 – Sep 2025	Oct 2023 – Sep 2025
For ITS	Sep 2025- Sep 2028	Sep 2025- Sep 2028

Attachment 6, 7 & 8: Package wise construction schedules (progress) updated at the end of 1st Quarter (Apr – May - Jun 2023).

2.2.2 Reasons for changes of the schedule and their effects to the Project*(P/R and PCR)*

No change in the Implementation Schedule except the selection of O&M Organization timeline.

Cost Breakdown	Foreign Currency Portion			Local Currency Portion			Total		
	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total (Rs. mil)	JICA Portion (Rs. mil)	Others (Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)
Package-1	37,249	37,249	0	43,708	43,708	0	112,426	112,426	0
Package-2	29,247	29,247	0	33,283	33,283	0	86,494	86,494	0
Package-3	804	804	0	8,360	8,360	0	15,184	15,184	0
Package-4 (ITS)	0	0	0	3,770	3,770	0	6,484	6,484	0
Package-5 (Geotechnical Investigation)	0	0	0	147	0	147	253	0	253
Dispute Boards (Package-1, 2, 3 & 4)	0	0	0	58	58	0	99	99	0
Price Escalation	390	390	0	403	403	0	1,082	1,082	0
Physical Contingency	5,077	5,077	0	6,730	6,719	11	16,652	16,633	19
Consulting Services	1,611	1,611	0	1,423	1,423	0	4,058	4,058	0
Land Acquisition*	0	0	0	10,495	0	10,495	18,052	0	18,052
Administration Cost	0	0	0	4,548	0	4,548	7,823	0	7,823
GST	0	0	0	16,935	0	16,935	29,128	0	29,128
Import Tax	0	0	0	12,691	0	12,691	21,830	0	21,830
Interest during construction	3,349	0	3,349	0	0	0	3,349	0	3,349
Front End Fee	485	0	485	0	0	0	485	0	485
Total	78,211	74,377	3,833	142,550	97,723	44,828	323,396	242,459	80,938

2.3 Project Cost

2.3.1. a Comparison of Originally Planned and Actually Incurred Cost by ITEM

Table 2.3.1.a.(i) Originally Planned Cost by ITEM

Cost Breakdown	Foreign Currency Portion			Local Currency Portion			Total		
	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total Rs. mil)	JICA Portion Rs. mil)	Others Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)
Package-1	37,249	37,249	0	43,708	43,708	0	112,426	112,426	0
Package-2	29,247	29,247	0	33,283	33,283	0	86,494	86,494	0
Package-3	804	804	0	8,360	8,360	0	15,184	15,184	0
Package-4 (ITS)	0	0	0	3,770	3,770	0	6,484	6,484	0
Package-5 (Geotechnical Investigation)	0	0	0	147	0	147	253	0	253
Dispute Boards (Package-1, 2, 3 & 4)	0	0	0	58	58	0	99	99	0
Price Escalation	390	390	0	403	403	0	1,082	1,082	0
Physical Contingency	5,077	5,077	0	6,730	6,719	11	16,652	16,633	19
Consulting Services	1,611	1,611	0	1,423	1,423	0	4,058	4,058	0
Land Acquisition*	0	0	0	10,495	0	10,495	18,052	0	18,052
Administration Cost	0	0	0	4,548	0	4,548	7,823	0	7,823
GST	0	0	0	16,935	0	16,935	29,128	0	29,128
Import Tax	0	0	0	12,691	0	12,691	21,830	0	21,830
Interest during construction	3,349	0	3,349	0	0	0	3,349	0	3,349
Front End Fee	485	0	485	0	0	0	485	0	485
Total	78,211	74,377	3,833	142,550	97,723	44,828	323,396	242,459	80,938

Note - 1. Exchange Rate: US\$1=Rs. 78.1, US\$1=JPY 134.0, Rs.1 = JPY 1.72

2. Price Escalation (a) Foreign Currency Portion: 2.06% p.a.

(b) Local Currency Portion: 4.50% p.a.

3. Physical Contingency: 7.5%

4. Base Year for Cost Estimation: July 2022

QPR 1st Oct to 31st Dec 2023



Table 2.3.1.a.(ii) Actually Incurred Cost by ITEM

Cost Breakdown	Foreign Currency Portion			Local Currency Portion			Total		
	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)	Total (Rs. mil)	JICA Portion (Rs. mil)	Others (Rs. mil)	Total (JPY mil)	JICA Portion (JPY mil)	Others (JPY mil)
Package-1	37,110	37,110	-	46,559	46,559		110,213	110,213	
Package-2	27,666	27,666	-	34,601	34,601		82,457	82,457	
Package-3	805	805	-	8,383	8,383		13,750	13,750	
Package-4 (ITS)	-	-	-	715	715		1,202	1,202	
Package-5 (Geotechnical Investigation)	-	-	-	196		196	337		337
Dispute Boards (Package-1, 2, 3 & 4)	-	-		-			-		-
Price Escalation	-	-		-					-
Physical Contingency	-	-		-			-		-
Consulting Services	253	253		362	362		2,051	2,051	-
Land Acquisition*	-			9,890		9,890	17,011		17,011
Administration Cost	-			4,870		4,870	8,376		8,376
GST	-			19,364		19,364	33,306		33,306
Import Tax	-			-			-		-
Interest during construction	971		971	-			971		971
Front End Fee	423		423	-			423		423
Total	67,228	65,384	1,394	124,940	90,620	34,320	270,097	209,673	60,425

Note - 1. Exchange Rate: Rs.1 = JPY 1.72 for MMRDA Portion only.

2. Price Escalation (a) Foreign Currency Portion: 2.06% p.a.

(b) Local Currency Portion: 4.50% p.a.

3. Physical Contingency: 7.5%

4. Base Year for Cost Estimation: July 2022.

QPR 1st Oct to 31st Dec 2023



2.3.1. b. Comparison of Originally Planned and Actually Incurred Cost by YEAR**Table 2.3.1.b.(i) Originally Planned Cost by YEAR (All Figures are in JPY mil)**

Cost Breakdown	Total	JICA Portion				Others (MMRDA Portion)
		Tranche I	Tranche II	Tranche III	Sub Total	
FY 2015	82	0	0	0	0	82
FY 2016	247	0	0	0	0	247
FY 2017	22,806	10,041	0	0	10,041	12,765
FY 2018	39,813	23,631	0	0	23,631	16,182
FY 2019	41,797	33,549	0	0	33,549	8,248
FY 2020	35,348	26,354	0	0	26,354	8,994
FY 2021	63,583	48,460	0	0	48,460	15,123
FY 2022	50,198	2,759	39,911	0	42,670	7,528
FY 2023	46,007	0	26,998	11,247	38,245	7,762
FY 2024	15,494	0	0	12,907	12,907	2,587
FY 2025	8,022	0	0	6,601	6,601	1,421
Total	323,396	144,794	66,909	30,755	242,458	80,938

Table 2.3.1.b.(ii) Actually Incurred Cost by YEAR (All Figures are in JPY mil)

Cost Breakdown	Total	JICA Portion				Others (MMRDA Portion)
		Tranche I	Tranche II	Tranche III	Sub Total	
FY 2017	13,738	9,232	-	-	9,232	4,506
FY 2018	26,813	21,695	-	-	21,695	5,118
FY 2019	40,410	31,014	-	-	31,014	9,396
FY 2020	31,822	23,885	-	-	23,885	7,937
FY 2021	53,977	43,204	-	-	43,204	10,773
FY 2022	80,126	13,734	52,905	-	66,639	13,487
FY 2023	23,212	-	14,004	-	14,004	9,208
FY 2024	-	-	-	-	-	-
Total	270,098	142,764	66,909	-	209,673	60,425

- e) 1. Exchange Rate used: Rs.1 = JPY 1.72 for MMRDA Portion only
 2. Fiscal Year starting from 1st April and ending on 31st Mar.

QPR 1st Oct to 31st Dec 2023

2.3.2 Reason(s) for the wide gap between the original and actual, if there have been any, the remedies you have taken, and their results.

(P/R and PCR)

There is no major gap between the original and actual cost.

2.4 Organization for Implementation

2.4.1 Executing Agency

Original:

Executing Agency

Mumbai Metropolitan Region Development Authority (MMRDA) was established on 26th Jan 1975 in accordance with the Mumbai Metropolitan Development Act, 1974 to make Mumbai Metropolitan Region (MMR) a destination for economic activity by promoting infrastructure and regional planning. MMRDA takes all the necessary measures, required from time to time, in an effective manner and be fully responsible for the Project implementation. After completion of the Project, MMRDA continues to be responsible for the efficient operation and maintenance of the Project.

The GoM appointed MMRDA as the implementing/ executing agency of MTHL vide Government Resolution dated 4th Feb 2009 and further the ownership of MTHL would be with MMRDA vide Government Resolution dated 8th June 2011

Organization's Role

To construct, execute, carryout, improve, work, develop, administer, manage, control or maintain in MMR all types of roads, highways, express routes, paths, streets, bridges, sideways, tunnels and other infrastructure, works and conveniences, approach road, etc. Under the Project, MMRDA is responsible for all the tendering process including employment of consultants, as well as for the construction process.

Project Implementation Unit (PIU)

The PIU is in charge of the Projects. The PIU is headed by Chief Engineer, comprising of 6 Divisions/Cells (Finance Division, Social Development Cell, Engineering Division, Land Cell, Administrative Division and Environmental Cell), Supervision/ ITS Consultant and supporting staff.

Procurement

MMRDA shall have to adopt the JICA's Standard Bidding Documents of the latest version, as stipulated in Section 4.01 (2) of "Guidelines for Procurement under Japanese ODA Loans.

Procurement of goods and services, except for consulting services, converted by the Japanese ODA Loan should be implemented in accordance with "Guidelines for Procurement under Japanese ODA Loans", dated in Apr 2012. Employment of consultants should be implemented in accordance with "Guidelines of Employment of Consultant under Japanese ODA Loans", dated in Apr 2012. "Principles of Procurement under the Project" is attached for a brief explanation of the above Guidelines.

Actual, if changed: (P/R and PCR)

There is no change made in the original Organization Set-up & Implementation methods. Refer Annexure III Organization Chart.

QPR 1st Oct to 31st Dec 2023

2.4.2 Contractor(s)/ Supplier(s), and Consultant(s) and their Performance:**2.4.2.1 Procurement & Consultant****Table 2.4.2 Procurement of Contractor(s)/ Supplier(s) and Consultant(s)**

Contract Package	Selection Method		
	Original: (P/M)	Actual: (P/R and PCR)	
Construction Works			
1	<u>Package-1:</u> From CH 0+000 - To CH 10+380 (10.38 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change
2	<u>Package-2:</u> From CH 10+380 - To CH 18+187 (7.80 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change
3	<u>Package-3:</u> From CH 18+187 - To CH 21+800 (3.61 km)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	No Change
4	<u>Package-4:</u> To install ITS (Toll Management System and Highway Traffic Management System)	International Competitive Bidding Process (With PQ, Single stage with two envelopes)	International Competitive Direct Bidding Process without Pre-Qualification
5	<u>Package-5:</u> To conduct the geotechnical investigation	Local Competitive Bidding Process	No Change
Consulting Services			
1	Consulting Service for Supervision	Short List Method (QCBS)	No Change

2.5 Consultant's Progress:

Oct 2023:

GC scrutinized & certified the following invoices claimed by the Contractors:

- Package-1: IPC-72-100% Certified and IPC-73 -80% Ad-hoc Certified by GC.
- Package-2: IPC-66 100% Certified and IPC-67 -80% Ad-hoc Certified by GC.
- Package-3: IPC-60 100% Certified and IPC-61 -80% Ad-hoc Certified by GC.
- Package-4: IPC-06 100% Certified and IPC-7 -80% Ad-hoc Certified by GC.

Nov 2023:

GC scrutinized & certified the following invoices claimed by the Contractors:

- Package-1: IPC-73 100% certified and IPC-74 80% Ad-hoc certified by GC.
- Package-2: IPC-67 100% certified & IPC-68 -80% Ad-hoc certified by GC.
- Package-3: IPC-61 100% certified & IPC-62 -80% Ad-hoc certified by GC.
- Package-4: IPC-07 100% Certified and IPC-08 -80% Ad-hoc Certified by GC.

Dec 2023:

GC scrutinized & certified the following invoices claimed by the Contractors:

- Package-1: IPC-74-100% Certified and IPC-75 -80% Ad-hoc Certified by GC.
- Package-2: IPC-68 100% certified - & IPC-69 - 80% Ad-hoc Certified by GC.
- Package-3: IPC-62 100% certified & IPC-63 -80% Ad-hoc certified by GC.
- Package-4: IPC-08 100% Certified and IPC-09 -80% Ad-hoc Certified by GC.

GC has prepared and submitted a total reimbursement claim of 7173.96 million JPY to MMRDA / JICA in Jun 2023. (Please refer Annexure-2)

100% of the Technical Design Modules across all the 3 Packages have been given "NONO" by the GC & Package design submission is in progress.

100% of the Construction (GFC – Good for Construction) Design Modules across all the 3 Packages have been given "NONO" by the GC.

Package-1 – 100%, Package-2 – 100%, Package-3 -100%.

2.6 Contractor's Progress:**2.6.1 Package-1 Physical Progress till 31st December 2023**

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1	Permanent Bridge Works - Land/ Interchange Zone					
1.1	Piles	523	No.	523	100.00%	
1.2	Pile Caps	158	No.	158	100.00%	
1.3	Piers	228	No.	228	100.00%	
1.4	Pier Caps	215	No.	215	100.00%	
2	Permanent Bridge Works - Intertidal Zone					
2.1	Piles	312	No.	312	100.00%	
2.2	Pile Caps	75	No.	75	100.00%	
2.3	Piers	146	No.	146	100.00%	
2.4	Pier Caps	146	No.	146	100.00%	
3	Permanent Bridge Works - Marine Zone					
3.1	Piles	403	No.	403	100.00%	
3.2	Pile Caps	80	No.	80	100.00%	
3.3	Piers	162	No.	162	100.00%	
3.4	Pier Caps	162	No.	162	100.00%	
4	Permanent Bridge Works - Total					
4.1	Piles	1238	No.	1238	100.00%	
4.2	Pile Caps	313	No.	313	100.00%	
4.3	Piers	536	No.	536	100.00%	
4.4	Pier Caps	536	No.	536	100.00%	
5	Precast Segments					
5.1	Segment Casting	6714	No.	6714	100.00%	
5.2	Segment (Span) Erection+ Cast-in-Situ Slab	478	No.	477	100.00%	
6	OSD Structural Steel					
6.1	Fabrication	53703	MT	53703	100.00%	
6.2	Assembly (Large Blocks)	53703	MT	53703	100.00%	
6.3	OSD Span Erection	38	No.	38	100.00%	
7	Crash Barrier					
7.1	Crash Barrier - Median	20320	Rmt	14282	100.00%	
7.2	Crash Barrier - Outer	31099	Rmt	24615	100.00%	

2.6.2 Package-2 Physical Progress till 31st December 2023

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1	Permanent Bridge Works - Land/ Interchange Zone					
1.1	Open Foundation	113	No.	113	100.00%	
1.2	Piers	119	No.	119	100.00%	
1.3	Pier Caps	105	No.	105	100.00%	
1.4	Portal Beams- Land	6	No.	6	100.00%	
1.5	Pier Head Segments -Land	42	No.	42	100.00%	
2	Permanent Bridge Works - Intertidal & CRZ Zone					
2.1	Piles	280	No.	280	100.00%	
2.2	Pile Caps	72	No.	72	100.00%	
2.3	Piers	72	No.	72	100.00%	
2.4	Pier Caps	18	No.	18	100.00%	
2.5	Pier Head Segments	54	No.	54	100.00%	
3	Permanent Bridge Works - Marine Zone					
3.1	Piles	504	No.	504	100.00%	
3.2	Pile Caps	120	No.	120	100.00%	
3.3	Piers	120	No.	120	100.00%	
3.4	Pier Caps	48	No.	48	100.00%	
3.5	Pier Head Segments	74	No.	74	100.00%	
4	Permanent Bridge Works - Total					
4.1	Open Foundation	113	No.	113	100.00%	
4.2	Piles	784	No.	784	100.00%	
4.3	Pile Caps	192	No.	192	100.00%	
4.4	Piers	311	No.	311	100.00%	
4.5	Pier Caps/ Portal Beams	177	No.	177	100.00%	
4.6	Pier Head Segments	170	No.	170	100.00%	
5	Precast Segments					
5.1	Segment Casting	3132	No.	3132	100.00%	
5.2	Segment (Span) Erection + Cast-in-Situ Slabs	272	No.	272	100.00%	
6	OSD Structural Steel					
6.1	Fabrication	34726	MT	34,726	100.00%	
6.2	Assembly (for Large Block)	34726	MT	34726	100.00%	
6.3	OSD Span Erection	32	No.	32	100.00%	
7	Crash Barrier					
7.1	Crash Barrier	36559	Rmt	27977	100.00%	

2.6.3 Package-3 Physical Progress till 31st December

S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
1	Permanent Bridge Works					
1.1	Open Foundations	221	No.	221	100.00%	
1.2	Piles	24	No.	24	100.00%	
1.3	Pile Caps	4	No.	4	100.00%	
1.4	Piers	242	No.	242	100.00%	
1.5	Pier Caps	189	No.	189	100.00%	
1.6	Segment Casting	834	No.	834	100.00%	
1.7	Segment (Span) Erection	59	No.	59	100.00%	
1.8	Cast in-situ Slab	108	No.	108	100.00%	
1.9	Rail Overbridge (ROB) Span	20	No.	20	100.00%	
1.10	Crash Barrier	14500	Rmt	11100	100.00%	

2.6.4 Package-4 (ITS) Progress till 31st December 2023

1. Design & Drawings submission is in progress.
2. Geotechnical Investigation for Sub admin building & Service Road is completed.
3. Physical Progress till 30th June 2023

Sr. No	Activity	Unit	Total Scope	Cumulative Work done Achieved	% of Work done Against the Total Scope	Remarks
1. Food Plaza 1						
	RCC Plinth Beams	Rm	494	494	100.00%	
	RCC Column 1 st lift - GF	Nos	38	3	100.00%	
	RCC Column 2 nd lift - GF	Nos	38	0	100.00%	
2. Food Plaza - 2						
	Staging for Roof Slab – GF	Cum	3006	1800	100.00%	
	Decking for Roof Slab - GF	Sqm	1002	700	100.00%	
3. Gavhan Tunnel						
	PCC for Raft	Rm	131	131	100.00%	

	RCC for Raft	Rm	131	131	100.00%	
	RCC Slab	Rm	131	131	100.00%	
	Staircase Slab	Sqm	17.5	0	100.00%	
4. Gavhan Main Admin Building						
	Roof Slab – Concreting - GF	Cum	207	207	100.00%	
	Column 1 st lift - FF	Nos	49	49	100.00%	
	Column 2 nd lift - FF	Nos	49	49	100.00%	
	Shear Wall for lift – 1 st lift – FF	Nos	1	0.5	100.00%	
	Shear Wall for lift – 2 nd lift – FF	Nos	1	0.5	100.00%	
5. Shivaji Nagar Sub – Admin Building						
	RCC Column Starter/ 1 st Lift GF	Nos	23	13	100.00%	
	UG trenches/Conduits	Ls	1	1	100.00%	
	Grade Slab for flooring (PCC & RCC)	Sqm	350	350	100.00%	
6. Sewri Sub – Admin Building						
	Backfilling upto Plinth Level	Cum	300	300	100.00%	
	Grade slab for flooring (PCC & RCC)	Sqm	420	200	100.00%	
	Column 1 st lift – GF	Nos	22	22	100.00%	
	Column 2 nd lift – GF	Nos	22	18	100.00%	
	Decking for Roof slab - GF	Cum	450	100	100.00%	

Please refer **Attachment 9 - Site Progress Photos** showing the development of the project.

2.7 Health & Safety and Environment (HSE)

The HSE Plans have been submitted by the respective construction agencies for the Packages which are being monitored by the GC on a regular basis.

2.7.1 Package-1 Safety Report

S No.	Description	Unit	Oct-Nov-Dec-2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	1998	4255
2	Man-Days Worked	Days	87534	8514062
3	Man-Hours Worked	Hours	700272	71620493
4	Accident-Free Man Hours	Hours	700272	8319115
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	7
6	Fatality Cases.	Fatalities (FAT)	0	8
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	0	8
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	0	10
9	Restricted Work Medical Case	RWMC (#Incidents)	0	0
10	Medical Treatment Cases	MTC (#Incidents)	0	2
11	First Aid Cases.	FAC (#Cases)	1	348
12	Near Miss Incidents.	NMI (#Incidents)	0	151
13	Dangerous Occurrences.	DO (#Numbers)	0	8
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	2
15	Man-Hours Lost	Hours	240	396192
16	Man-Days Lost	Days	30	49533
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	0	0
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	43	741
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	0	0
20	Toolbox Talks	Sessions	2002	191391
21	Safety Walk down Inspections (Joint & CFT)	Numbers	5	335
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	32	4664
23	Total Observations Raised (Safety)	Numbers	432	101952
24	Health & Hygiene Inspections	Numbers	4	140
25	Total Observations Raised (Health & Hygiene)	Numbers	6	971
26	Training Sessions done for Offices & Sites	Sessions	21	3941
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	519	55171
28	Contractor Safety Committee Meetings	Numbers	1	51
29	Critical Excavations	Numbers	0	86
30	Pre-employment Medical check-ups	Persons	564	52617
31	Safety Inductions completed	Persons	558	54490
32	Mock drills Conducted	Numbers	1	48
33	Contractor's Internal Audits Conducted	Numbers	1	63

QPR 1st Oct to 31th Dec 2023



2.7.2 Package – 2 Safety Report

S No.	Description	Unit	Oct-Nov-Dec 2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	1608	3,388
2	Man-Days Worked	Days	38592	35,46,773
3	Man-Hours Worked	Hours	424512	3,89,99,684
4	Accident-Free Man Hours	Hours	424512	98,95,162
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	0
6	Fatality Cases.	Fatalities (FAT)	0	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	0	14
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	0	14
ss9	Restricted Work Medical Case	RWMC (#Incidents)	0	8
10	Medical Treatment Cases	MTC (#Incidents)	0	16
11	First Aid Cases.	FAC (#Cases)	3	212
12	Near Miss Incidents.	NMI (#Incidents)	5	495
13	Dangerous Occurrences.	DO (#Numbers)	0	20
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	0
15	Man-Hours Lost	Hours	0	6,848
16	Man-Days Lost	Days	0	833
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	0	0
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	0	22
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	0	1
20	Toolbox Talks	Sessions	360	19,798
21	Safety Walk down Inspections (Joint & CFT)	Numbers	4	234
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	96	3,186
23	Total Observations Raised (Safety)	Numbers	349	31,080
24	Health & Hygiene Inspections	Numbers	15	72
25	Total Observations Raised (Health & Hygiene)	Numbers	0	0
26	Training Sessions done for Offices & Sites	Sessions	14	1,934
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	234	36,793
28	Contractor Safety Committee Meetings	Numbers	1	66
29	Critical Excavations	Numbers	0	0
30	Pre-employment Medical check-ups	Persons	272	20,385
31	Safety Inductions completed	Persons	272	20,572
32	Mock drills Conducted	Numbers	1	58
33	Contractor's Internal Audits Conducted	Numbers	0	0

2.7.3 Package – 3 Safety Report

S No.	Description	Unit	Oct-Nov-Dec 2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	159	544
2	Man-Days Worked	Days	6,555	10,03,110
3	Man-Hours Worked	Hours	52,437	80,24,883
4	Accident-Free Man Hours	Hours	52,437	22,11,132
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	0
6	Fatality Cases.	Fatalities (FAT)	0	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	0	3
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	0	3
9	Restricted Work Medical Case	RWMC (#Incidents)	0	0
10	Medical Treatment Cases	MTC (#Incidents)	0	0
11	First Aid Cases.	FAC (#Cases)	0	134
12	Near Miss Incidents.	NMI (#Incidents)	0	53
13	Dangerous Occurrences.	DO (#Numbers)	0	1
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	0
15	Man-Hours Lost	Hours	0	2,336
16	Man-Days Lost	Days	0	292
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	0.00	0
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/MMHr	0	37
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	0.00	0
20	Toolbox Talks	Sessions	81	9,811
21	Safety Walk down Inspections (Joint & CFT)	Numbers	4	241
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	8	321
23	Total Observations Raised (Safety)	Numbers	70	13,228
24	Health & Hygiene Inspections	Numbers	1	116
25	Total Observations Raised (Health & Hygiene)	Numbers	2	429
26	Training Sessions done for Offices & Sites	Sessions	17	734
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	178	13,565
28	Contractor Safety Committee Meetings	Numbers	1	62
29	Critical Excavations	Numbers	0	11
30	Pre-employment Medical check-ups	Persons	39	10,422
31	Safety Inductions completed	Persons	39	10,422
32	Mock drills Conducted	Numbers	1	59
33	Contractor's Internal Audits Conducted	Numbers	0	19

2.7.4 Package-4 Safety Report

S No.	Description	Unit	Oct-Nov-Dec 2023	Cumulative
1	Average Daily Manpower (all Workmen & Staff)	Numbers	904	3
2	Man-Days Worked	Days	27120	6
3	Man-Hours Worked	Hours	2,16,960	0
4	Accident-Free Man Hours	Hours	2,16,960	0
5	Fatal Accidents (Reportable)	Incidents (Nos.)	0	0
6	Fatality Cases.	Fatalities (FAT)	0	0
7	Lost Time Injury Incidents (Reportable)	Incidents (Nos.)	0	0
8	Lost Time Injury Cases (Persons Injured)	# Injured Persons	0	0
9	Restricted Work Medical Case	RWMC (#Incidents)	0	1
10	Medical Treatment Cases	MTC (#Incidents)	0	2,233
11	First Aid Cases.	FAC (#Cases)	0	42
12	Near Miss Incidents.	NMI (#Incidents)	0	76
13	Dangerous Occurrences.	DO (#Numbers)	0	0
14	Reportable Sick Cases (Succumbed due Covid)	Sick (#Persons)	0	0
15	Man-Hours Lost	Hours	0	0
16	Man-Days Lost	Days	0	0
17	Reportable Incident Frequency Rate / Million Man Hours	# (FAT+ Injuries)/MMH	0.00	0
18	Reportable Incident Severity Rate / Million Man Hours	Days Lost/ MMHr	0	0
19	Total Injury Incident Frequency Rate / 1M Man Hours	TIFR	0.00	1
20	Toolbox Talks	Sessions	407	2,233
21	Safety Walk down Inspections (Joint & CFT)	Numbers	5	42
22	Routine Safety Inspections (Safety Team with Reports)	Numbers	9	76
23	Total Observations Raised (Safety)	Numbers	191	1,192
24	Health & Hygiene Inspections	Numbers	1	8
25	Total Observations Raised (Health & Hygiene)	Numbers	6	48
26	Training Sessions done for Offices & Sites	Sessions	27	245
27	Personnel Attended Training Sessions (Classroom & Site)	Persons	942	5,868
28	Contractor Safety Committee Meetings	Numbers	1	10
29	Critical Excavations	Numbers	0	3
30	Pre-employment Medical check-ups	Persons	253	1,703
31	Safety Inductions completed	Persons	253	1,703
32	Mock drills Conducted	Numbers	0	5
33	Contractor's Internal Audits Conducted	Numbers	0	2

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3.0 BENEFITS DERIVED FROM THE PROJECT (EFFECTIVENESS)**3.1 Operational and Physical Condition**

(This section will be developed when the operational plan is available)

Facilities	Description of condition	Problems, its Background and Remedial Action Plan
(P/R and PCR)	(P/R and PCR)	(P/R and PCR)

3.2 Precautions (Measures to be adopted/ Points which require special attention)

Original Issues and Counter measure(s)	Actual Issues and Counter measure(s)
3.2.1 General Issues 1. Toll Arrangement/ Toll Rate Fixed toll rate as per the type of vehicle will be levied for the road users after the completion of the Project. An appropriate tolling policy/ rates will be finalized in consultation with the state government prior to the completion of Civil works. 2. Operation and Maintenance MMRDA proposes to appoint separate agencies for Operation & Maintenance of the bridge and for Toll Management System. Both the agencies for O & M and Toll Management System may be appointed through open tendering process. Overall monitoring of the two agencies would be done by MMRDA in-house through a separate cell which could be constituted for the purpose. MMRDA has confirmed to allocate an adequate budget engaging the Contractors.	(P/R and PCR) Appropriate Tolling Policy/ Rates finalization is in progress. A single Operation and Maintenance Contractor finalization is in progress.
3.2.2 Environmental and Social Consideration a. CRZ Clearance i. Supplemental EIA has been approved by MMRDA and disclosed on the website of JICA. A supplemental EIA report has been disclosed also on the website of MMRDA. ii. Furthermore, renewed CRZ Clearance has been obtained in January 2016. iii. In accordance with the conditions for CRZ Clearance, appropriate measures shall be taken, and necessary budget shall be secured by MMRDA.	(P/R and PCR) <ul style="list-style-type: none"> MMRDA has disclosed Supplemental EIA & SIA on MMRDA website. The renewed CRZ clearance was granted on 25/1/2016 from MoEF&CC and the approval conditions have been imposed on the Contractors as the Employer's requirements. MMRDA has actively monitored the compliances of the approval conditions and maintained them throughout the construction phase. MMRDA appointed Mangroves & Marine Biodiversity Foundation for bird monitoring and implementation of Flamingos and bird monitoring program for the MTHL project during the construction as well as the long-term monitoring after the construction.

	<ul style="list-style-type: none"> • Rs 91.42 Crore has been transferred to Mangroves & Marine Biodiversity Foundation, Mumbai for the development & conservation of mangrove area and its afforestation. Such funds will be managed by the Mangrove Foundation of Maharashtra State. • As per the renewed CRZ clearance condition, IIT Mumbai has been appointed for the DPR study to develop a Mahul creek Effluent Treatment Plant (ETP). Rs 4.98 Crore was secured for IIT services. The Draft DPR has been reviewed and approved. • Proposal of extension for CRZ clearance submitted vide reference no MCZMA 2022/08/CR-246/3719 dated 4th Aug-2022. (Please refer Annexure-3)
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b. Required Permits

The Permits to be obtained by MMRDA/ Contractors and the present status is given in the following Table.

Table 3.2.2 Present Status of some Important Permits

Clearance Required	Approving Authority	Responsible Organization	Obtained by when	Remark /Status
Mangrove Cutting	Hon. Bombay High Court	MMRDA/ Contractor	Approval received from Hon. Bombay High Court on 28 th Nov 2016	Mangrove cutting operation was completed with full compliance and as of now, no further follow up work is required.
Tree Cutting /Transplantation	Respective Tree Authorities	Contractor for respective Packages	-	<p>Pkg-1: Tree Cutting/ Transplantation permission from the Garden Dept., MCGM obtained on 24th Dec 2020.</p> <p>Pkg-2: Tree Cutting/ Transplantation permission obtained & completed.</p> <p>Pkg-3: Forest Department issued a concurrence on 19/05/2019. CIDCO's permission for Tree Cutting/ Transplantation obtained on 25th Nov 2019.</p>
Consent to Establish	Maharashtra Pollution Control Board	Contractor for respective Packages	Pkg-1-18.07.2018 Pkg-2-16.08.2018 Pkg-3-29.05.2019	

3.3 Environmental and Social Impacts

Major environmental and social impacts have occurred during project implementation (e.g. involuntary resettlement, poverty reduction, impacts on the natural environment).

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
<p>1. Establishment of Effective Environmental and Social Cell in PIU</p> <p>MMRDA confirmed that Social Development Cell (2 Officers), Land Cell (3 Officers), and Environmental Cell (2 Officers) had been set up.</p>	<p>Cell is established by MMRDA (Annexure III, Organization chart)</p>
<p>2. Rehabilitation and Land Acquisition Issues</p> <p>a. Affected Area and Population</p> <p>Due to the Project, 1282 non-titleholders will be involuntary resettled, and 108.4379 ha of land will be handed over by CIDCO.</p>	<p>Sewri: Involuntary resettlement in Sewri section has been further validated by Social Development Cell of MMRDA. Out of 297 Project Affected Households (PAHs) have given consents as follows:</p> <ul style="list-style-type: none"> • 164 PAHs Kanjurmarg for residential • 25 PAHs Kanjurmarg for commercial • 7 PAHs (Satsangi Plot) Kanjurmarg for Commercial • 1 PAHs (commercial to residential) for Bhakti Park • 100 PAHs HDIL Kurla for residential <p>Navi Mumbai: CIDCO has been finalizing the land acquisition closely monitored by Land Cell of MMRDA.</p> <p>CIDCO has possessed 106.3542 ha of land and handed over to MMRDA, except private land of 2.0837 ha.</p> <p>0.3937 ha land is under acquisition out of balance 2.0837 ha land. CIDCO is planning to acquire the balance ROW land of with the help of Collector, Raigad.</p>

b. Entitlement Policy

MMRDA prepared the entitlement matrix for resettlement of non-title holders in Sewri, which meets the Resettlement and Rehabilitation Policy for Mumbai Urban Transportation Project (1997, amended in 2000) and JICA guidelines for Environmental and social considerations (2010) ("Guidelines") (Attachment 2-5).

There have been no changes during the enforcement. As per the **Attachment 2-5** of JICA MoD, MMRDA has committed to enforce the agreed/ approved policy.

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
<p>c. Compensation to Project affected Fishermen</p> <p>Detailed baseline survey will be undertaken by MMRDA in order to identify fishermen who are affected by the Project. Based on the result of the baseline survey, MMRDA will compensate them in accordance with compensation policy prior to the construction. Monitoring will be conducted by MMRDA with assistance of the Consultant to gasp the exact impact during construction and operation phase.</p>	<p>Updated Attachments 2-8 and 2-10 are enclosed in the report.</p>
<p>d. Implementation Schedule</p> <p>The Implementation schedule for land acquisition, resettlement and rehabilitation is attached as per Attachment 2-10.</p>	<p>Updated Attachment 2-10 is enclosed in the report.</p>
<p>e. Grievance Redressal Mechanism</p> <p>Grievance Redressal Committee ("GRC") set under MMRDA will deal with grievances raised by PAPs in Sewri and fishermen to be affected by the Project. Any grievances raised by PAPs whose land is acquired by CIDCO shall be resolved by CIDCO.</p>	<p>Sewri: FLGRC (Field Level Grievance Redressal Committee) and SLGRC (Senior Level Grievance Redressal Committee) were set as per the RAP and in operation. Compensation Committee has been constituted to address the issues of Compensation to Lease Holders at Sewri.</p> <p>Fishermen: GRC for resolving grievances of the fisherfolk was set up as per the compensation policy and is in operation.</p>

<p>f. Internal Monitoring</p> <p>Internal Monitoring of the Resettlement Action Plan (RAP) implementation will be conducted by MMRDA in accordance with the RAP with necessary assistance of the consultant. RAP Internal Monitoring Form (Attachment 2-8) will be submitted to JICA on a quarterly basis as a part of PSR during the RAP implementation.</p>	<p>Internal Monitoring updates are mentioned in Attachment 2-8.</p>
<p>g. Qualitative Independent Evaluation</p> <p>An Independent Evaluation Agency will be hired by MMRDA for evaluation of RAP implementation. An external</p>	

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
evaluation report will be submitted to MMRDA at mid-term and end-term. MMRDA would submit the evaluation report to JICA in a timely manner.	Updated Attachment 2-10 is enclosed in the report.
h. RAP Implementation Budget The amount of estimated resettlement and compensation budget is Rs.906.26 Cr MMRDA informed to the JICA Mission that RAP implementation cost would be borne by MMRDA and ensured sufficient and timely allocation of funds for smooth implementation.	As updated in MOD dated 03/09/2019 for MTHL- II, the base cost Budget towards RAP Implementation is updated as Rs 1129.3 Cr.
i. Environmental Management Plan ("EMP") The mitigation measures against air pollution, waste, noise, and water pollution etc. shall be taken during construction and operation phase. Mitigation measures such as installation of noise barrier, appropriate waste management, etc. have been prepared by MMRDA. The mitigation measures are listed in the EMP matrix. (Attachment 2-1). During the detailed design stage, MMRDA, with assistance of the Consultant, will update the EMP, as necessary.	EMP will be updated, if required, in due course of construction activities/progress.
j. Environmental Monitoring Plan ("EMoP") MMRDA takes overall responsibility for implementation of EMoP. During construction, environmental monitoring will be carried out by contractors under supervision by Construction Supervision consultant. The result shall be reported to the JICA India Office on a quarterly basis as a part of Progress Status Report (PSR) by filling in the Reporting Form of Environmental Monitoring Result. (Attachment 2-4). After completion of the construction, EMoP shall be implemented by MMRDA, and the results shall be submitted to the JICA India Office semi-	Environmental Monitoring Plan with the package wise budgeted cost is reported in Attachment 2-3 . Environmental Monitoring Results during the construction phase are reported in Attachment 2-4 .

Issue(s)	Action or countermeasure(s) taken and remaining problem(s)
annually until two years after complementation of construction. The required amount of estimated environmental monitoring budget is borne by MMRDA.	
k. Long Term Bird Monitoring MMRDA committed to conduct the long-term monitoring of birds and its habitat in Sewri mudflats with the assistance of hired bird expert. During the long-term monitoring, MMRDA will share information and receive advice from external experts including the one from NGOs and civil society.	<ul style="list-style-type: none"> MMRDA has entrusted the work of bird monitoring and implementation of Flamingos and birds related mitigation measures & bird monitoring program to Mangrove and Marine Biodiversity Foundation. Rs. 31.92 Crore deposited to Mangrove foundation, Mumbai for periodical disbursement to BNHS.

3.4 Qualitative and Quantitative Data of Monitoring Indicators

Operation and Effect Indicator EIRR and/ or FIRR

Supporting data for Computing EIRR and/ or FIRR

Indicators	Original (Year 2015)	Target (Year 2024) 2 Years After Commercial Operation
Average Annual Daily Traffic (PCU/ day)	-	47,400
Daily Average Travel Time (min) * 1	61 min	15.8 min
Number of Users (Persons/ year) * 2	-	46,077,504
Cargo Volume (tons/ year) * 3	-	13,511,759

*1 Section on Sewri – Chirle

*2 Assumptions: average passengers of car and taxi (2.6 persons), bus (37.2 persons) based on JICA study. Number of passengers of LCV, HCV and MAV is assumed as 1 person each.

*3 Assumptions: the maximum capacity of respective vehicle (LCV: 1 ton, HCV and MAV: 15 tons) is used for estimation.

EIRR	Original: 15.4% Cost: Project cost (excluding Price Escalation, Tax and Duties and Administration cost) O&M cost, Land Acquisition Benefit: Travel Time cost and Vehicle Operation cost Project Life: 32 Years	Actual: (PCR) _____% Cost: Benefit: Project Life: Attachment(s): Supporting data for computing EIRR
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FIRR	Original: 1.5% Cost: Project Cost, O&M cost, Land Acquisition cost Benefit: Toll Revenue Project Life: 32 Years	Actual: (PCR) _____%
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3.5 Monitoring Plan for the indicators

Monitoring Methods, Section(s)/ department(s) in charge of monitoring, frequency, the term and so forth are given below:

Original: (P/M and PCR)

<p><u>Monitoring Organization</u></p> <p>PIU shall be In-Charge of Monitoring activities for the Project.</p> <p><u>Submission of QPR and PCR</u></p> <p>The timely submission of the following documents is required by MMRDA.</p> <p>a. Quarterly Progress Report (QPR): The progress report for the Project should be submitted by MMRDA to JICA on quarterly basis, not later than 30 days after the concerned quarter, in the form of Project Status Report (PSR) attached hereto as per Annex I; Updated status land Acquisition, milestone achieved with respect to Action Plan with Timetable, the monitoring form for environmental and social consideration should also be appended to the PSR. In addition, MMRDA shall also forward the Monthly & Quarterly Progress Reports (including S- Curve Chart) prepared by the Consultant to JICA India Office on regular basis till project completion.</p> <p>b. Project Completion Report (PCR): A project completion report should be submitted by MMRDA to JICA promptly, but in any event not later than six months after completion of the Project, in the form of Project Status Report (PSR) attached hereto as per Annex I.</p>
<p>Actual: (P/R and PCR)</p> <p>Monitoring Organization</p> <p>PIU for MTHL has been established for monitoring the Project.</p> <p>Submission of QPR and PCR</p> <p>This QPR No. 22 is submitted for the period of 1st July to 30th Sep 2022.</p>

3.6 Achievement of the Project Objective

(PCR)
4.0 OPERATION AND MAINTENANCE (O&M) (SUSTAINABILITY)

4.1 O&M and Management

- Organization Chart of O&M
- Operational and maintenance system (structure and the number, qualification and skill of staff or other conditions necessary to maintain the outputs and benefits of the project soundly, such as manuals, facilities and equipment for maintenance, and spare part stocks etc

Original: (P/M)

Operation & Maintenance, Toll Management and ITS

MMRDA proposes to engage two separate agencies for O&M and Toll Management System. Though MMRDA will not directly carry out O&M, the overall monitoring over the O&M agency will be the responsibility of MMRDA. O&M Budget will be allocated by MMRDA. O&M and increase in toll rate will be done in accordance with the NHAI's manuals such as "NHAI Works manuals".

Actual: (PCR)

4.2 O&M Cost and Budget

- The actual annual O&M cost for the duration of the project, as well as the annual O&M budget.

(PCR) This will be reported when the outcome of the above work-study is available.

5.0 EVALUATION

5.1 JICA and Borrower / Executing Agency performance

JICA:

(PCR)

Borrower/ Executing Agency:

(PCR)

5.2 Overall Evaluation

Please describe your evaluation on the overall outcome of the project.

(PCR)

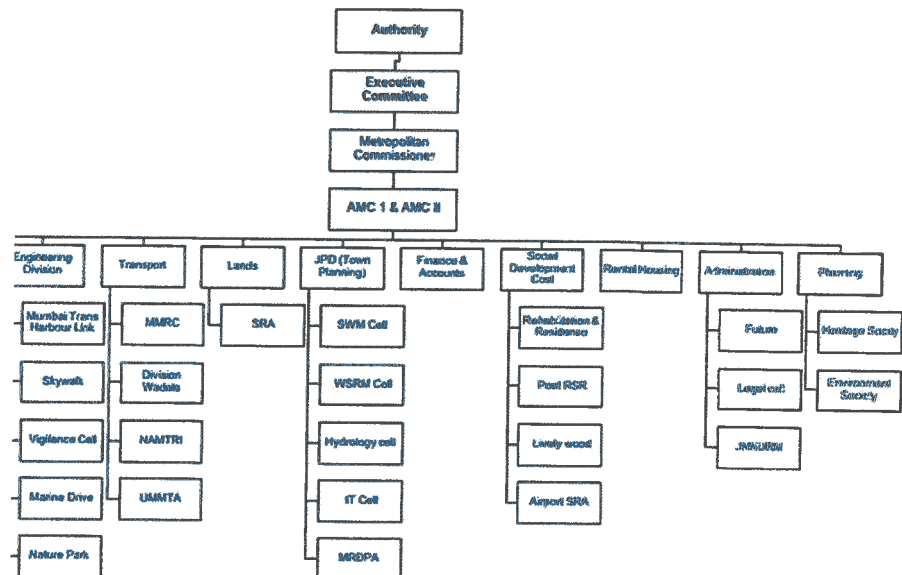
5.3 Lessons Learnt and Recommendations

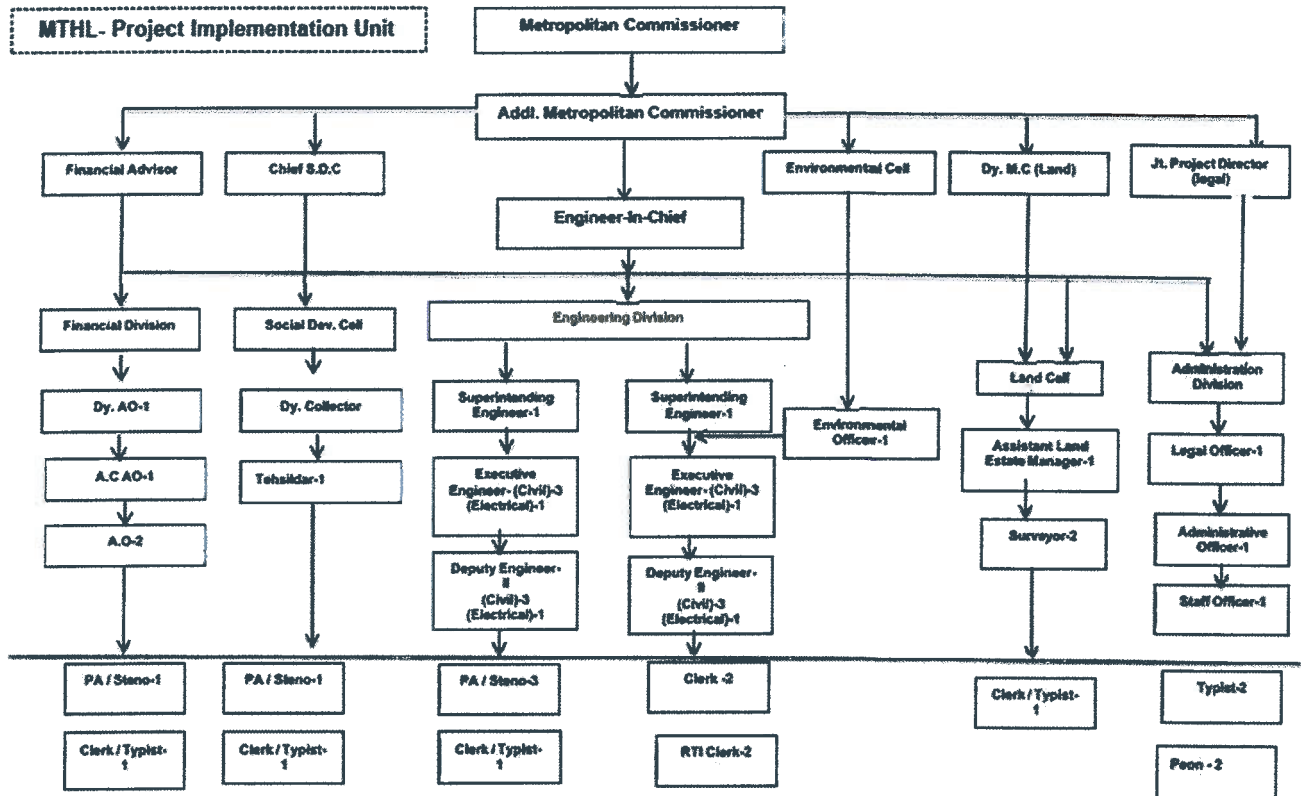
Please raise any lessons learned from the project experience, which might be valuable for the future JICA assistance or similar type of projects, as well as any recommendations, which might be beneficial for better realization of the project effect, impact and assurance of sustainability.

(PCR)

Attachment 1- MMRDA & PIU Organization Chart

MMRDA Organization chart





Attachment 2- Environmental & Social Impacts

Attachment 2-3 – Envi. Monitoring Plan with Package-wise Estimated Cost

Attachment 2-4 – Environmental Monitoring Result Reporting Form

Attachment 2-6 – MTHL Land Acquisition Status

Attachment 2-8 – RAP Internal Monitoring Form

Attachment 2-10 – Schedule of the RAP Implementation

QPR 1st Apr 2023 to 30th Jun 2023



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Environmental Monitoring Plan with Package wise Estimated Cost

Category	No.	Impacted Item on JICA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pkg.1 (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)	Remarks
Pollution	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , O ₃ , CO, (6 Items)	National Ambient Air Quality Standards, 2009	1. Sewri & Sewri bay area for package I	Fortnightly at all locations except 2 locations each near Batching plants	1,800,000	15,000,000	1,800,000	742,500	17,542,500	National Ambient Air Quality Standards (NAAQS) by Central Pollution Control Board (CPCB)	P1 contractor team is conducting Ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's requirement.
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year						(Standard for 24hrs: Industrial and Residential/ Ecological Sensitive area)	P 2 contractor Monitoring plan has been designed as per EIA of 2015
					3. Gavhan & Chirle for package III	Fortnightly only for 3 months (Jan-2019 to Mar-2019). Then quarterly monitoring as per MOEF and CPCB norms						SO ₂ : 80 / 80 µg/m ³	P3 contractor team is conducting Ambient air quality monitoring with reference to National Standards and clause 1.2 of Employer's requirement.
												NO ₂ : 80 / 80 µg/m ³	P 1 received Consents CTE & CTO from MPCB and they are following MPCB frequency in addition to frequency set by Environment Expert from GC. The NAAQ standards are showing High rate as that is the usual procedure. The frequency of monitoring is set by us which varies for different parameters as either Statutory requirements or as required by us to ensure we have sufficient data in hands if there are additional claims for Compensation in CS category. Summary : Although the contract conditions for all packages were same at the time of bidding. Later modifications suggested by GC were not accepted by P 2. P1 and P3 accepted the modifications and hence the difference. Second point is P 1 carrying out monitoring as per the obatiend CTE and CTO. Both other packages have applied for CTE but haven't obtained it yet. So we expect the monitoring frequency would change after obtaining CTE.
	2	Water pollution	pH, BOD, DO, Turbidity and O&G	IS / AWWA	1. Sewri & Sewri bay area for package I	Quarterly	810,000	2,400,000	810,000	0	3,210,000	Marine water quality Standards – Class SW-IV Harbour Waters (MPCB)	Water Pollution not applicable for Pkg. 3
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year						pH : 6.5-9	
					3. Gavhan & Chirle for package III	Not applicable						DO: 3 mg/l	
												Turbidity: 30 NTU	
	3	Waste	Volume of waste soil, cutting tree and domestic garbage	Volumetric	1. Sewri & Sewri bay area for package I	Daily	500,000	299,200,000	500,000	600,000	300,300,000		The cost of waste disposal for P1 includes C&D waste, Pile muck etc. from all areas like, interchange, intertidal and marine. The disposal location is at MCGM approved location Ehayandarpada, Thane.
												O & G: 10 mg/l	
												PM ₁₀ : 100 / 100 µg/m ³	
												PM _{2.5} : 60 / 60 µg/m ³	
												O ₃ : 180 / 180 µg/m ³	
												CO: 0.4 / 0.4 mg/m ³	



Category	No.	Impacted Item on JICA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pkg.1 (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)	Remarks
					2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year						Municipal Solid Waste Management Rules, 2013 Generated waste shall be reused or disposed at designated site. Sites have been identified and the location for Pkg. 1 is at Bhayandar Pada in Thane. For Pkg. 2 & 3 is in Navi Mumbai at Pushpak Node near "Teen Taki Junction" along the Amar Marg.	P2 contractor has considered only Domestic garbage with respect to CIDCO. Other wastes are not considered. Construction wastes will be
					3. Gavhan & Chirle for package III	Once site clearing work/execution part of work start.							
	4 and 8	Soil Contamination/ sedimentation	Heavy Metals & Oil & Grease (5-10 items shall be selected from Soil pollution standards)	IS / Methods Manual Soil Testing in India by Department of Agriculture and Cooperation, January 2011	1. Sewri & Sewri bay area for package I	1. Muck: 1 Time / Year 2. Sediments: 4 Times / Year	150,000	1,500,000	150,000	100,000	1,750,000	Soil Pollution Standard in India (MOEF) Cd: 0.01mg/l Lead: 0.01mg/l Chromium (VI): 0.05mg/l Arsenic: 0.01mg/l T-Mercury: 0.0005mg/l Copper: 125mg/kg (some items shall be selected from totally 25 standards items)	
					2. Nhava temporary bridge & casting yard in Gavhan for package II								
					3. Gavhan & Chirle for package III								
	5	Noise and vibration	Ambient and road side noise (dB(A) _{L_{eq}})	IS Standard	1. Sewri & Sewri bay area for package I	Fortnightly	150,000	54,000	150,000	369,000	573,000	-Construction Noise; 85dB(A) -Ambient Noise Standards in India (dB (A) _{L_{eq}}) 1. Industrial Area Day Time: 75 (6-22hr) Night Time: 70 (22-6hr) 2. Commercial Area: Day Time: 65 (6-22hr) Night Time: 55 (22-6hr) 3. Residential Area: Day Time: 55 (6-22hr) Night Time: 45 (22-6hr) 4. Silence Zone Day Time: 50 (6-22hr) Night Time: 40 (22-6hr)	
					2. Nhava temporary bridge & casting yard in Gavhan for package II	2 Times / Year							
					3. Gavhan & Chirle for package III	Fortnightly							
			Vibration (dB L10 or mm/sec)		1 Location Gavan area for package III	Half yearly	75,000	0	75,000	400,000	475,000	- Construction vibration 75dB -Vibration Standards roadside 1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr) 2. Residential Area: Day Time: 65 (7-20hr) Night Time: 60 (20-7hr)	Not applicable for Pkg. 1
	9 and 10	Protected Area /Ecosystem	1. Monitoring of mudflat conditions including fauna-flora	Ocular Inspection and quantitative survey	Along MTHL alignment and mangrove replant area for Package I	Quarterly during the construction Period	6,500,000	7,200,000	6,500,000	0	13,700,000		Not applicable for Pkg. 3
			2. Monitoring of Cutting Tree and replantation/		Along MTHL alignment and mangrove replant area for package II	4 Times / Year							
			transplanting area	1-1. Fauna-Flora	Not applicable for Package III								
			3. Monitoring of Mangrove Plantation area appointed by MoEF	Line-Point census and record number and appeared species									



Category	No.	Impacted Item on JICA Guidelines	Parameter	Method	Location	Frequency a year	Cost (INR)	Cost Pkg.1 (INR)	Cost Pkg.2 (INR)	Cost Pkg.3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) - Ministry of Environment & Forest (MoEF)	Remarks
Natural environment			4. Monitoring of sedimentation soil and ecological parameter (18 items on Supplemental EIA Table 6.1.15 for soil and 7 items such as 1) Net primary productivity, 2) Chlorophyll-a, 3) Phosphate, 4) Nitrate, 5) Nitrite, 6) Particulate Organic Carbon, 7) SiO ₂)	1-2: Mangrove density and community survey								Detailed monitoring plan will be setup during basic design stage Standard for Soil; Supplemental EIA Table 6.1.15 Standard for Ecological Parameter: • Net primary Productivity <1,500 mgC/m ³ /day at surface • Chlorophyll-a <4mg/m ³ • Phosphate: 0.1-90µg/l • Nitrate: 1.0-500µg/l • Nitrite: <125µg/l • Particulate Organic Carbon: 10-100mg/m ³ • SiO ₂ : 10-5,000µg/l	
				1-3: Benthos Survey									
				2-1: Cutting trees confirmation									
				3-1: Mangrove survey in the replanted area									
Social environment	11	Hydrology	Flooding situation	Flood level measurement during high precipitation periods	Not applicable for Package I		350,000	0	350,000	0	350,000	Project activities and structures does not cause flooding and impacts on tidal conditions	Not applicable for Pkg. 1 & 3
					2 Locations (CRZ at Sewri and Shivaji Nagar) for Package II	4 Times / Year							
					Not applicable for Package III								
	12	Topography and Geology	Conditions in embankment area	Visual survey about Stability of embankment	Not applicable for Package I		115,000	0	115,000	0	115,000	Embankment shall be stabilized without any landslide and cracks	Not applicable for Pkg. 1 & 3
					Interchange in Shivaji Nagar for Package II	4 Times / Year							
					Not applicable for Package								
Social environment	13	Local economy such as employment and livelihood			Affected area		As per Actuals						
	14	Local conflict of interests	Construction worker's township	Confirmation of workers list from contractor	2 Locations (camp site in Sewri and Shivaji Nagar) for Package II	2 Times / Year	125,000	0	125,000	0	125,000	Employment opportunity shall be provided fairly	
	15	Infectious diseases such as HIV/AIDS	Number of infected patient	Confirmation of health check list from contractor	2 Locations	4 times / year x 4.5 years	525,000	0	525,000	0	525,000	Infection disease rate shall not be caused by the project	
	16	Labour Environment	Construction worker's condition	Confirmation of safety devices and conditions via interviews	2 Location (camp site in Sewri and Shivaji Nagar) for Package II	2 times / year	500,000	0	500,000	0	500,000	"Building And Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996", "The building and other construction worker's welfare cess Act, 1996" and international standards such as "IFC Performance Standard 2 Labor and Working Conditions"	
Other	17	Accidents	Number of accidents	Confirmation of accidents list from local government and State Traffic Police Department	2 Locations (camp site in Sewri and Shivaji Nagar) for Package II	4 Times / Year	400,000	0	400,000	0	400,000	Any accidents are not caused by construction	
Total							8140500	325,354,000	12,000,000	2,211,500	339,565,500		

The Project for Construction of Mumbai Trans Harbour Link Reporting Form of Environmental Monitoring during Construction Attachment 2-4								Attachment 2-4			
						Monitoring Period -April to June 2023		This form is prepared for reporting the monitoring results to JICA India Office. Only minimum required parameters are included in this form, and not all parameters in EMoP are covered.			
1. Environmental Monitoring during Construction for 4.5 years											
Area	No	Item	Parameter	Location	Frequency a year	Item and Standard	Monitoring Result				Remark - reasons why the data is exceeding standard - counter measures when the data is exceeding
							Location 1- Pkg 1	Location 2 - Package 2	Location 3- Pkg 3	Location 4- Pkg-04	
Pollution	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5}	1. Sewri & Sewri bay area for package I	Quarterly monitoring is conducted at all locations.	National Ambient Air Quality Standards (NAAQS)	Sewri	Shivaji Nagar	Chirle	Gavhan	
				2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	(Standard for 24hrs: Industrial and Residential)					
				3. Gavhan & Chirle for package III	From march -2019 onwards monitoring is conducted quarterly as per MOEF and CPCB norms	1. SO ₂ : 80µg/m ³	10.5	BDL	32	BDL	BDL- Below Detectable Limit
						2. NO ₂ : 80µg/m ³	40.50	28	50	16	
						3. PM ₁₀ : 100µg/m ³	250.00	81	86	149.2	
						4. PM _{2.5} : 60µg/m ³	36.25	29	45	47	
						5.CO:02mg/m3	1.35	1.4	0.73	16	
			6.VOCs	0.97	2.7	1.05	BDL				
	2	Water pollution	pH, BOD, DO, Turbidity and O&G	1. Sewri & Sewri bay area for package I	Quarterly	Marine water quality Standards – Class SW-IV Harbour Waters (MPCB)	Zone I	Zone II	Zone III/ Package-03	Package -04	
				2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	1. pH: 6.5-9	7.8	7.8	Not applicable	Not Applicable	
				3. Gavhan & Chirle for package III	Not applicable	2. DO: 3 mg/l	5.9	5.7	Not applicable	Not Applicable	
						3. Turbidity: 30 NTU	8.9	20.5	Not applicable	Not Applicable	
						4. BOD: 5 mg/l	BDL[DL=2]	BDL (DL=2)	Not applicable	Not Applicable	
						5. O & G: 10 mg/l	BDL[DL=2]	BDL (DL=2)	Not applicable	Not Applicable	
						6.COD	19	23	Not applicable	Not Applicable	
	3	Waste	Volume of waste soil, cutting tree and domestic garbage	1. Sewri & Sewri bay area for package I	Daily	Municipal Solid Waste Management Rules, 2013	71 Tonnes for 3 months	Shivaji Nagar Camp Site	Gavan Camp Site	Gavhan Camp site	
				2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	Generated waste soil (t) total			NA	NA	

				3. Gavhan & Chirle for package III	Once site clearing work/execution part of work start.	Generated cutting tree (ha) total			Tree cutting work completed and Half yearly report submitted to Client (April, 2022)	NA	Both of forest and CIDCO area (234+75)= 309
						Generated domestic waste (t/month) total	71 Tonnes for 3 months	3.5 T/quarter.	2.1 T for the quarter	50 kg per day	
						Confirmation of adequate disposal (visual survey)	Waste is disposed through Municipal Corporation.	It is disposed through CIDCO daily.	Waste is disposed through Municipal Corporation.	waste is Disposed through CIDCO	
						Soil Pollution Standard in India (MOEF)	Sediment sample at Sewri	Muck Testing done in September 2021 and Reports submitted to GC.			Kindly check the letter No.Ref No. MTHL/ P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020
				1. Sewri & Sewri bay area for package I	1. Muck: 1 Time / Year 2. Sediments: 4 Times / Year	1. Cadmium: 0.01mg/l	BDL[DL=2]	BDL	-	BDL	
				2. Nhava temporary bridge & casting yard in Gavhan for package II							
				3. Gavhan & Chirle for package III	*If any spillage/ leakage take place from chemical, fuel storage area. *One time grab sample to be collected during Bridge Construction *Pre & Post Monsoon at Storage area only	2. total cyanide : not detected	NA	<0.005	There is no reportable Oil spillage in project	NA	
						3. organic phosphorus: not detected	NA	8.5	One time Soil test done (Report has been submitted)	8	
						4. lead: 0.01mg/l	BDL[DL=0.6]	0.17	There is no huge quantity of oil storage area, Oil requirment fulfil by portable oil tanker (Indian Oil) on frequent basis. Only small quantity of Oil <1000 ltr is stored in well established oil storage area (Covered and bunded wall from all side)	BDL	Hazardous Storage is situated in low laying area at Gavan area. Due to this reason complete ground area is covered by boulders to avoid further water logging in rainy season. Therefore soil sample is impossible to taken out from in and around the Oil & chemical storage area. Same has witnessed by GC during Febrary-2020 monitoring.
						5. chromium (VI): 0.05mg/l	Not detected	BDL	-	BDL	
						6. arsenic: 0.01mg/l or 15mg/kg (agri-land soil)	BDL[DL=1]	BDL	-	BDL	
						7. total mercury: 0.005mg/l	BDL[DL=2]	BDL	-		
						8. alkyl mercury: not detected	Not detected		-		
						9. PCBs: not detected	Not detected	BDL	-		
						10. copper: 125mg/kg (only paddy field soil)	147		-	0.45	
						11. dichloromethane: 0.02mg/l	Not detected	BDL	-	NA	
						12. carbon tetrachloride: 0.002mg/l	Not detected	BDL	-	NA	
						13. 1,2-dichloroethane: 0.004mg/l	Not detected	BDL	-	NA	
						14. 1,1-dichloroethylene: 0.02mg/l	Not detected	BDL	-	NA	
						15. cis-1,2-dichloroethylene: 0.04mg/l	Not detected	BDL	-	NA	
						16. 1,1,1-trichloroethane: 1mg/l	Not detected	BDL	-	NA	
						17. 1,1,2-trichloroethane: 0.006 mg/l	Not detected	BDL	-	NA	
						18. trichloroethylene: 0.03mg/l	Not detected	BDL	-	NA	
						19. tetrachloroethylene: 0.01mg/l	Not detected	BDL	-	NA	
						20. 1,3-dichloropropene: 0.002mg/l	Not detected	BDL	-	NA	
						21. thiuram: 0.006mg/l	Not detected	BDL	-	NA	
						22. simazine: 0.003mg/l	Not detected	BDL	-	NA	



5	Noise and vibration	Ambient and road side noise (dB(A) LAeq)	1. Sewri & Sewri bay area for package I	Fortnightly	Construction area Standard 85 dB(A) daytime (Japan standard)Not construction area : Ambient Noise Standard in India (dB(A) Laeq)	Sewri (ST 200-500)(Industrial area)	Sea Section (ST5000-5500) Migratory Bird Area (no standard on sea section)	Chirle (package-III) Commercial area	Gavhan (Package IV) Commercial Area				
			2. Nhava temporary bridge & casting yard in Gavhan for package II	2 Times / Year	Day time : 6-22 hr (continuous) dB(A)	69.8	69.4	63.35	68.3	-			
			3. Gavhan & Chirle for package III	Fortnightly	Night time: 22-6 hr (continuous) dB(A)	61.8	62.3	52.69	61.5	-			
					(only sea section)		-	-	-	-			
					Day time : 6-22 hr (10 min during 9-17 hrs)	70.2	-	-	-	-			
					Night time: 22-6 hr (10 min 22-24 hr)	65.4	-	-	-	-			
					-	-	-	-	-	-			
					Note (standard values in Not construction area)	-	-	-	-	-			
					1. Industrial Area	-	-	-	-	-			
					Day Time: 75 (6-22hr)	-	-	-	-	-			
					Night Time: 70 (22-6hr)	-	-	-	-	-			
					2. Commercial Area:	-	-	-	-	-			
					Day Time: 65 (6-22hr)	-	-	-	-	-			
					Night Time: 55 (22-6hr)	-	-	-	-	-			
			Vibration (dB) shall be converted from mm/s to dB	1 Location Gavan area for package III	Half yearly	Construction area Standard 75 dB daytime (Japan standard) Not construction area : Vibration Standard (Japan Standard along the road)	Sewri (ST 200-500) (Industrial area)	Shivaji Nagar (Commercial area)	Chirle	Gavhan			
						Day time : 6-22 hr (continuous)	Not applicable	Not applicable	Not applicable	Not Applicable	-		
						Night time: 22-6 hr (continuous)	-				-		
		Note (standard values in Not construction area)				-	-	-					
		1. Commercial /Industrial Area				-	-	-					
		Day Time: 70 (7-20hr)				-	-			Kindly check the letter No.Ref No. MTHL/ P3/L&T/GC/LT/HSE-2226/2020 dated on 12.12.2020			
		Night Time: 65 (20-7hr)				-	-						
		Natural Environment	6	Protected Area	1. Monitoring of mudflat conditions including fauna-flora 2. Monitoring of Cutting Tree and replantation/transplati on area 3. Monitoring of Mangrove Plantation area appointed by MoEF 4. Monitoring of sedimentation soil and ecological parameter (25 items on EIA main text Table 6.1.15 for soil and 7 items such as 1)Net primary productivity, 2)Chlorophyll-a, 3)Phosphate, 4)Nitrate, 5)Nitrite, 6)Particulate Organic Carbon, 7) SiO2)	Along MTHL alignment and mangrove replant area for Package I	Quarterly during the construction Period	Standard is not existing, but quantity and quality should not be worsen	Sewri side (ST500-5500)	Sea Section (ST5500-16000)	Shivaji Nagar side (app. ST16000-19000)	Shivaji Nager side (Ramp Area)	
						Along MTHL alignment and mangrove replant area for package II	4 Times / Year	1-1. Fauna-Flora (number of species and quantity	Bird monitoring is being done by a separate agency BNHS	Bird monitoring is being done by a separate agency BNHS	N/A	N/A	
								(1) Number of species of bird	28				Birds Monitoring report by BNHS has been submitted separately
						(2) Number of species of fish	25						
						(3) Estimated number of Flamingo	< 20,000						

					1-2: Mangrove density and community survey	Avicennia marina	Being carried out by Mangrove Foundation		correspondence with mangrove cell	<u>Mangrove foundation report has been submitted separately</u>
					(1) Number of species of mangrove	Dominant - Avicennia sp.				
					(2) Density of mangrove (xx trees/10m x 10m)	EIA - Not disturbed.				
					1-3: Benthos Survey	Flora, fauna, phytoplankton, zooplankton, Benthos				-
					(1) Number of species and quantity by species					-
					2-1: Cutting tree confirmation	1. Tree Cutting: 407 trees (Till June 2023) 2. Transplanting: 500 Trees (Till June 2023)	20 trees were cut with approval of Forest Department on 29-10-2018. Compensatory plantation of 40 trees were done in casting yard area during the period 15-10-2020 to 18-10-2020. Maintenance of the same is being done.	Cutting of tree - 341 Transplantation - 84		-
					(1) Number of cutting tree and species	407	20	341		
					3-1: Mangrove survey in the replant area	Being carried out by Mangrove Foundation	Being carried out by Mangrove Foundation	NA		<u>Mangrove foundation report has been submitted separately</u>
					(1) Number of species of mangrove					
					(2) Density of mangrove (xx trees/10m x 10m)					
					4. Ecological Parameter					-
					(1) Net primary Productivity : <1,500 mgC/m3/day at surface	450				-
					(2) Chlorophyll-a: <4mg/m3	4.3				-
					(3) Phosphate: 0.1-90µg/l	5				-
					(4) Nitrate: 1.0-500µg/l	5.75				-
					(5) Nitrite: <125µg/l	BDL[DL=2]				-
					(6) Particulate Organic Carbon: 10-100mg/m ³	1.12%				-
					(7) SiO2: 10-5,000µg/l	34.46				-
7	Hydrology	Flooding situation	Not applicable for Package I		Criteria for evaluation Project activities and structures does not cause flooding and impacts on tidal conditions	Sewri	Shivaji Nagar		Gavhan	
			2 Locations (CRZ at Sewri and Shivaji Nagar) for Package II	4 Times / Year	Monitoring of flooding situation	No Flooding	No Flooding		No Flooding	
			Not applicable for Package III			-		-		
8	Topography and Geology	Conditions in embankment area	2 Locations (1. Embankment of Inter Change in Shivaji Nagar and 2 Cutting area at toll gate in Chirle)	4 times / year x 4.5 years	Criteria for evaluation Embankment shall be stabilized without any landslide and cracks	Shivaji Nagar		Chirle	Gavhan	
					Monitoring of embankment	No changes in the embankment noticed	No changes in the embankment noticed	Rock filling activity is carried out as per agreement.	No changes in the embankment noticed	
9	Local conflict of interests	Construction worker's township	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Criteria for evaluation Employment opportunity shall be provided fairly	Sewri Camp Site	Shivaji Nagar Camp Site	Chirle	Gavhan Labour Camp	
					Number of hired workers by community	around 1000	125-150	62	Around 16	
10	Infectious diseases such as HIV/AIDS	Number of infected patient	2 Locations (major camp site in Sewri and	4 times / year x 4.5 years	Criteria for evaluation Infection disease rate shall not be caused by the project	Sewri Camp Site	Shivaji Nagar Camp Site		Gavhan Labour Camp	

				Shivaji Nagar)		Confirmation of health check record and inspect project site	Doctor on call checks site specific infections., minor and major incidents. 24x7 ambulance service, ERT team with trained first aiders available	Regular health checks-ups are done. In-house doctors are appointed at site and labour camps along with Male nurses, Trained first aiders and 24x7 ambulance services.	Regular Health checkup is carried out by site Doctor.	Regular health checks-ups are done. Inhouse doctors are appointed at site and labour camps along with Male nurses, Trained first aiders and Ambulance services on daily basis.	
	11	Labour Environment	Construction worker's condition	2 Locations (major camp site in Sewri and Shivaji Nagar)	2 times / year x 4.5 years	Criteria for evaluation "Building And Other Construction Workers (Regulation of Employment and Conditions of Service) Act,1996", "The building and other construction worker's welfare cess Act, 1996" and international standards such as "IFC Performance Standard 2 Labor and Working Conditions"	Distribution of Safety kits to 225 Workers Medical Camp organised; wherein > 500 workers were consulted. 220 No. of Malaria tests carried out. Glucose Distribution at Site during Summer Season for workmen. Organised Street Play for workers . Health Talk by Dr Akshay Shah Haemato Oncology on Hazards of Smoking & Chewing Tobacco and Preventive Measures. Inner health incentive program with co-ordination with Bhramakumaris Sanstha.	Shivaji Nagar Camp Site	Gavan Camp site	Gavhan Labour Camp	
						Site Visual Inspection	Weekly site inspection	Conforming with BOCW Act 1996	Conforming with BOCW Act 1996	Conforming with BOCW Act 1996	
Other	12	Accident	Number of accidents	2 Locations (major camp site in Sewri and Shivaji Nagar)	4 times / year x 4.5 years	Criteria for evaluation Any accidents are not caused by construction	Sewri Site	Shivaji Nagar Camp Site	Chirle/Other area	Gavhan area	
						Number of recorded accidents	0	Nil	Nil	Nil	

2. Environmental Monitoring during Operation for 2 years after completion of construction

This form is prepared for reporting the monitoring results to JICA India Office. Only minimum required parameters are included in this form, and not all parameters in EMOF are covered.

Area	No	Item	Parameter	Location	Frequency a year	Item and Standard	Monitoring Result				Remark - reasons why the data is exceeding standard - counter measures when the data is exceeding
							Location 1	Location 2	Location 3	Location 4	
Pollution	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5}	2 Locations (Sewri and Shivaji Nagar)	2 times / year	National Ambient Air Quality Standards (NAAQS) (Standard for 24hrs: Industrial and Residential)	Sewri	Shivaji Nagar			
						1. SO ₂ : 80µg/m ³					
						2. NO ₂ : 80µg/m ³					
						3. PM ₁₀ : 100µg/m ³					
						4. PM _{2.5} : 60µg/m ³					
	2	Noise and vibration	Ambient and road side noise (dB(A) LAeq)	2 Locations (Sewri and Shivaji Nagar where baseline monitoring was carried out)	2 times / year	Not construction area : Ambient Noise Standard in India (dB(A) LAeq)	Sewri (ST 200-500) (Industrial area)	Sea Section (ST5000-5500) Migratory Bird Area (no standard on sea section)	Shivaji Nagar (Commercial area)		
						Day time : 6-22 hr (continuous)	-	-	-	-	-
						Night time: 22-6 hr (continuous)	-	-	-	-	-
						(only sea section)	-	-	-	-	-
						Day time : 6-22 hr (10 min during 9-17 hrs)	-	-	-	-	-
						Night time: 22-6 hr (10 min 22-24 hr)	-	-	-	-	-
			Vibration (dB) shall be converted from mm/s to dB	2 Locations (1. Sewri, 2. Shivaji Nagar)	2 times / year	Construction area Standard 75 dB daytime (Japan standard) Not construction area : Vibration Standard (Japan Standard along the road)	Sewri (ST 200-500) (Industrial area)	Shivaji Nagar (Commercial area)			
						Day time : 6-22 hr (continuous)	-	-	-	-	-
						Night time: 22-6 hr (continuous)	-	-	-	-	-
						Note (standard values in Not construction area)	-	-	-	-	-
						1. Commercial /Industrial Area Day Time: 70 (7-20hr) Night Time: 65 (20-7hr)	-	-	-	-	-
Natural Environment	3	Protected Area	1. Monitoring of mudflat conditions including fauna-flora. 2. Monitoring of Cutting Tree and replantation/transplantation area. 3. Monitoring of Mangrove Plantation area appointed by MoEF. 4. Monitoring of sedimentation soil and ecological parameter (25 items on EIA main text Table 6.1.15 for soil and 7 items such as	Along MTHL alignment and mangrove replant area	4 times / year x 4.5 years	Standard is not existing, but quantity and quality should not be worsen	Sewri side (ST500-5500)	Sea Section (ST5500-16000)	Shivaji Nagar side (app. ST16000-19000)	Mangrove Replantation area appointed by State Government	
						1-1. Fauna-Flora (number of species and quantity)					-
						(1) Number of species of bird					-
						(2) Number of species of fish					-
						(3) Estimated number of Flamingo					-
						1-2: Mangrove density and community survey		not required			-
						(1) Number of species of mangrove		not required			-

Regarding soil contamination/sedimentation, some items shall be selected from the total 25 standards items during the Detailed Design. Only the selected items shall be reported to JICA, and the rest of items shall be deleted from this form.



			1)Net primary productivity, 2)Chlorophyll-a, 3)Phosphate, 4)Nitrate, 5)Nitrite, 6)Particulate Organic Carbon, 7) SiO2)			(2) Density of mangrove (xx trees/10m x 10m)		not required			
						1-3: Benthos Survey		not required			
						(1) Number of species and quantity by species		not required			
						2-1: Cutting tree confirmation		not required			
						(1) Number of cutting tree and	Regarding protected area (CRZ and Important Bird Area) and ecosystem, detailed long-term monitoring plan will be established during baseline survey of birds. This tentative monitoring form shall be updated based on the detailed long-term monitoring plan.				
						3-1: Mangrove survey in the re					
						(1) Number of species of mang					
						(2) Density of mangrove (xx trees/10m x 10m)	not required	not required	not required		
						4. Ecological Parameter					
						(1) Net primary Productivity : <1,500 mgC/m3/day at surface					
						(2) Chlorophyll-a: <4mg/m3					
						(3) Phosphate: 0.1-90µg/l					
						(4) Nitrate: 1.0-500µg/l					
						(5) Nitrite: <125µg/l					
						(6) Particulate Organic Carbon: 10-100mg/m³					
						(7) SiO2: 10-5,000µg/l					
	4	Hydrology	Flooding situation	2 Locations (1. CRZ at Sewri and 2. Shivaji Nagar)	4 times / year	Criteria for evaluation Project activities and structures does not cause flooding and impacts on tidal conditions	Sewri	Shivaji Nagar			
						Monitoring of flooding situation	-	-	-		
	5	Topography and Geology	Conditions in embankment area	2 Locations (1. Embankment of Inter Change in Shibaji Nagar and 2 Cutting area at toll gate in Chirle)	2 times / year	Criteria for evaluation Embankment shall be stabilized without any landslide and cracks	Shivaji Nagar	Chilre			
						Monitoring of embankment	-	-	-		

QPR No. 27 (October to December 2023) – Attachment 2-6

MTHL - ROW Land Acquisition Status (Attachment 2-6):

The total land required on the Navi Mumbai side is 108.4379 ha

Land acquired by MMRDA – 108.4379 ha

Land in possession of MMRDA – 106.3542 ha

Balance land under acquisition – 0.3937 ha

Note: The acquisition of 0.3937 ha of ROW land is in progress and likely to complete.

ROW Land Required in ha (for Package-3)	ROW land acquired by MMRDA In ha	ROW Land in possession of MMRDA in ha	Balance ROW to be handed over (Possession to be taken + Under acquisition)	Anticipated date for 100% ROW Land Acquisition	Remarks
108.4379	108.0442	108.0442	2.0837 (1.6900+0.3937)	31-1-2023	The payment status to the land owners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.



Attachment 2-8

**RAP Implementation Monitoring Form
For Mumbai Trans Harbour Link Project (MTHL)**

1. General Information

a. RAP Implementation Monitoring Results:	Progress Status Report (PSR) for the 1st quarter of 2023- 2024
b. Date of Preparing This form	30-06-2023
c. Person Preparing This form	Name: Shivananda. K Position: The Engineer Department/Organizations: General Consultants

2. Scale of Impact**2.1 Project Affected Households (PAHs) and Project Affected Persons (PAPs) for Sewri side**

Total Project Affected Households (PAHs)	231Hhs	Titleholders: 0 Hhs Non-titleholders: 231Hhs
Total PAPs	1,282 persons*	Titleholders: 0 persons Non-titleholders: 1,282 persons*
PAHs who need relocation (as residents)	231Hhs	Titleholders: 0persons Non-titleholders: 231 (1,088persons) *
PAPs who do not need relocation (as residents)	0 persons	Titleholders: 0 persons Non-titleholders: 0 persons
Commercial PAPs who need relocation	66 (194persons) *	Titleholders: 0 persons Non-titleholders: 66(194persons) *
Commercial PAPs who do not need relocation	0 persons	Titleholders: 0 persons Non-titleholders: 0 persons

* - Figures for number of persons do not include no. of family members of few additional PAPs.



QPR No. 27 (October to December 2023) Attachment 2-8

Structures

Structures	Residential:231 Commercial:65 Residential + Commercial: 1 (counted in Commercial) Community:9 (Religious Properties 6, Public Toilets3) Government:16 (MbPT Structures 9, Occupants of Leased Plots 6 & Police Chowki 1) Total: 322
-------------------	--

2.2 Fishery

Categories of Fisher-folks	Identified Number		Total	Remarks
	Mumbai side	Navi Mumbai side		
C1: Fishing stakes and nets in RoW (250 m.)	178	54	232	Funds for 232 nos C1 category fishermen are transferred to Commissioner of Fisheries in 2017-22.
C2: Fishing Stakes and Nets within 500 m. of RoW (Southern side)	268	493	761	1. Funds for 704 nos C2 category fishermen are transferred to Commissioner of Fisheries in 2017-22. 2. 57 nos C2 category fishermen are verified and disbursement in process.
C3: Hand Pickers	1492	4040	5532	Funds for 5229 nos of C3 category fishermen are already transferred to the Commissioner of Fisheries and the balance of 302 Nos. of C3 category fishermen are in process of fund transfer to the Commissioner of Fisheries.
C4: Commercial and Artisanal Fisher-folks (Loss of Time and Increased	Will be observed during the construction period	Will be observed during the construction period	—	Nil



QPR No. 27 (October to December 2023) Attachment 2-8

Operating Costs)				
C5: Fisher-folks with Loss due to Turbidity	Will be observed during the construction period	Will be observed during the construction period	---	Nil
C6: Fisher-folks with Damages due to Accidents	Will be observed during the construction period	Will be observed during the construction period	---	Nil

2.3 Land Acquisition / Transfer

Location	Land Required in Ha.	Land Acquired in Ha.	Balance ROW to be Handed over in Ha	Remarks
Sewri	10.089	10.089	0	
Navi Mumbai	108.4379	108.0442	2.0837	1.69 Ha yet to over to the Contractor & 0.3937 Ha is under acquisition
Total	118.179	118.1332	2.0837	

3. Monitoring Results**3.1 Sewri Section**

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
Resettlement	No. of Residential PAHs provided with Allotment Letters of Alternate Tenements	231	231	0	231	100%	
	No. of Residential PAHs given possession of Alternate Tenements	231	231	0	231	100%	

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of Commercial/R+C PAPs provided with Allotment Letters of Alternate Shops/Tenements	66	66	0	66	100%	
	No. of Commercial R+C PAPs given possession of Alternate Shops/Tenements	66	66	0	66	100%	
	No. of Occupants of MbPT Leased Plots provided Compensation	6	6	0	6	100%	
	No. of Religious properties Relocated / Removed	6	6	0	6	100%	
	No. of Other Community properties Relocated / Removed	4	4	0	4	100%	
	No. of Structures in possession of MbPT Dismantled / Cleared	9	9	0	9	100%	
	No. of PAHs/PAPs provided Shifting Charges / Arrangement	297	297	0	297	100%	
Rehabilitation	No. of PAHs / PAPs identified for Livelihood Support in Post Resettlement Assessment						



QPR No. 27 (October to December 2023) Attachment 2-8

Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of PAHs / PAPs provided Livelihood Support under Program-I (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-II (to be identified)						
	No. of PAHs / PAPs provided Livelihood Support under Program-III (to be identified)						
	No. of new enterprises started						
Grievance Redress	No. of Grievances Received by FLGRC	4					
	No. of Grievances Disposed by FLGRC	3	3	0	3	100%	
	No. of Grievances Received by SLGRC	1	0	0	0		
	No. of Grievances Disposed by SLGRC	0					
Post Resettlement Assistance	No. of CHSs Registration helped						
	No. of CHSs provided Tenements for Social Amenities						
	No. of CHSs' Maintenance Fund Invested						



Activity	Indicator	Total Target	Progress till Last Quarter	Progress during reporting Quarter	Cumulative Progress till Current Quarter	Cumulative Achievement of Total Target (%)	Remarks, If Any
	No. of CHSs' Office Bearers provided training						

SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Influence Zone of 24 villages)**Up to 30-06-2023**

Sr.No.	Village Name	Total number of forms Received	Total approved eligible family units			
			C1	C2	C3	Total
1	Bamandongri	273	1	1	28	30
2	Belapur	110	0	5	15	20
3	Belpada	1185	0	7	478	485
4	Diwale	455	12	201	52	265
5	Ganeshpuri	276	0	37	35	72
6	Gavhan	2162	0	14	1317	1331
7	Jasai	926	0	0	18	18
8	Jawale	51	0	1	0	1
9	Kombadbhuja	413	1	23	134	158
10	Kopar	994	2	5	228	235
11	Karave	178	0	44	67	111
12	Mahul	1062	129	77	604	809
13	Moha	475	22	25	134	181
14	Mora	818	0	102	375	477
15	Morave	539	14	21	88	123
16	Nhava	1646	0	32	307	339
17	Sarsole	266	0	30	83	113
18	Sewri	305	0	1	72	73
19	Shelghar	241	0	0	15	15
20	Shivajinagar	202	1	4	61	66
21	Trombay	1208	49	219	823	1091
22	Ulwe	218	1	3	14	18
23	Uran & Hanuman Koliwada	683	0	11	600	611
24	Vahal	411	0	2	1	3
Total		15097	232	865	5548	6645

SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Out of Influence Zone villages)**Up to 30-06-2023**

QPR No. 27 (October to December 2023) Attachment 2-8

Sr.No.	Village Name	Total number of forms Received	Total approved eligible family units			
			C1	C2	C3	Total
1	Airoli	76	0	15	0	15
2	Ghansoli	340	0	15	0	15
3	Kopar khairne	245	0	1	0	1
4	Vashi Gaon	256	0	25	0	25
5	Juhugaon	201	0	3	0	3
6	Dhutum	398	0	1	0	1
7	Gharapuri	261	0	14	0	14
8	Kelavane	105	0	2	0	2
9	Koprol	70	0	4	0	4
10	Takigaon	1	0	1	0	1
11	Vindhane	12	0	2	0	2
12	Dighode	708	0	17	0	17
13	Kundegaon	548	0	24	0	24
	Total	3221	0	124	0	124

Total applications received (Influence Zone)	15097
Total applications received (Out of Influence Zone)	5744
Duplicate/Repeated Application	2428
Rejected application	11643
Eligible applications	6770
Total approved applications	6527



QPR No. 27 (October to December 2023) Attachment 2-8

Grievance Redressal Committee (GRC) for Fisher-folk Compensation

No. of Cases referred to GRC	No. of Cases		No. of Cases Rejected	No. of Cases under Consideration
	Allowed	Compensation Paid		
3	3	3	0	3



QPR No. 27 (October to December 2023) Attachment 2-10

Implementation Schedule for Fisher-folks Compensation & Land Acquisition in Navi Mumbai

A. Implementation Schedule for Fisher-folks Compensation: -

Sr. No.	Task Designation	Approving authority	Start Date	Completion Date
1	Approval of fisherfolk's compensation Policy	Fisher-folks Compensation Committee (FCC)	08-10-2015	23-12-2015
2	Approval by MMRDA	MMRDA	10-12-2015	23-12-2015
3	Submission to JICA	MMRDA	–	04-01-2016
4	A detailed list of PAP and compensation plan	1. Detailed list of Fisher-folk PAP up to list 1 (1165 Nos) & 2 (1399 Nos) are finalized by the Fisheries Department. 2. From 2018, FEVC committee is the approval authority of PAF and approved C1- 232 Nos. C2 - 761 Nos and C3- 5534 Nos are approved.	23-12-2015	Up to 31-03-2023 1. Total up to date applications scrutinized = 20841 Nos (Influence zone & out of influence zone). 2. Eligible = 6770 Nos. 3. Rejected = 11643 Nos.
	Validation of compensation plan	Fisher-folks Compensation Committee (FCC)	23-12-2015	1. Approval to the Fisher-folk PAP list obtained from Fisheries Department for Fisherfolk from Sewri, Mahul & Trombay (Mumbai side) – 12th September 2017 and 20th November 2018 for C-2 & C3 Category only.



Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 27 (Oct – Dec 2023)

QPR No. 27 (October to December 2023) Attachment 2-10

Sr. No.	Task Designation	Approving authority	Start Date	Completion Date
			23-12-2015	2. Approval to the Fisher-folk PAP list obtained from Fisheries Department for Fisherfolk of Navi Mumbai of C2 & C3 on 25th April 2018. 3. Validation of compensation is in progress and would be completed in phases.
6	Approval of compensation plan	FCC	23-11-2015	28-12-2017
7	Approval by MMRDA	MMRDA	23-11-2015	09-03-2021

B. Implementation Schedule for Land Acquisition in Navi Mumbai :-

ROW Land Required in Ha.	ROW Land Acquired by MMRDA in Ha.	ROW Land in Possession of MMRDA in Ha.	Balance Land to be acquired in Ha.	Anticipated date for 100% ROW Land Acquisition	Remarks
108.4379	108.0442	108.0442	0.3937	30-4-2023	



Implementation Schedule for SIA (Sewri Section)

Task No.	Task Designation	Start Date	Completion / Forecast Date
1	Preparation of Final SIA		
1.1	MMRDA Approval	October 2015	January 2016
1.2	JICA Approval	November 2015	January 2016
1.3	Posting of project Information on MMRDA		
1.4	Translation and disclosure of entitlement policy in local language to all PAP's	December 2015	January 2016
2	LARP Implementation		
2.1	Grievance redress mechanism established	August 2016	August 2016
2.2	Staff deployment SIA implementation	June 2016	Dec. 2021
2.3	Staff Deployment Public Relation	June 2016	June 2016
2.4	Hiring of Independent Evaluation Agency	November 2018	November 2020
2.5	Preparation and issue of allotment letters to PAPs	June 2018	Dec. 2022
2.6	Notice of PAPs for shifting (Sewri Section)	December 2018	Nov. 2021
2.7	Allotment of dwelling units to PAPs	September 2016	Dec. 2022
2.8	Shifting of PAPs to resettlement Colony	December 2018	Nov. 2021
2.9	Transfer of compensation/allowance/ assistance to PAPs	December 2018	Dec. 2022
2.10	Creation of Community Revolving fund (within 3 months post handing over)	April 2019	October 2023
2.11	Assessment of economic rehabilitation needs by individual household (within 6 months after handing over)	September 2019	October 2023
2.12	Registration of Co-operative housing societies transfer of maintenance funds. (6 months period)	December 2019	April 2023
2.13	Signing of Civil Contract		January 2018
2.14	Notice of Civil works to proceed		March 2018
3	Monitoring & Evaluation		
3.1	Internal Monitoring- Monthly/ Quarterly	June 2016	July 2020
3.2	Independent Evaluation Mid-term and End term evaluation Mid Term End Term	May 2019 November 2019	June 2020 October 2023



Attachment 3- JICA's Concurrence Status

QPR 1st Apr 2023 to 30th Jun 2023



Status of JICA'S Concurrence

Sl. No.	Brief description	Procurement procedure	Bid Cost		JICA's Concurrence on					
			Local Currency (Cr Rs.)	Total (Cr Rs.)	PQ Documents	PQ Evaluation	Bid Documents	Technical Evaluation	Financial Evaluation	Contract
1.	Package-1 (CH 0+000 km to CH10+380 km)	ICB with PQ (2P)	7637.30	7637.30	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 22nd Dec 2016	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 12th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence - 15th Feb 2018
2.	Package-2 (CH 10+380 km to CH18+187 km)	ICB with PQ (2P)	5612.61	5612.61	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 22nd Dec 2016	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 12th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence - 15th Feb 2018
3.	Package-3 (CH18+187 to CH21+800)	ICB with PQ (2P)	1013.79	1013.79	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 4th Jan 2017	JICA's Concurrence - 15th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence - 15th Feb 2018
4.	Package-4 Intelligent Transport System	ICB with PQ (2P)	427.00	427.00	JICA's Concurrence - 23rd Aug 2019	NA	JICA's Concurrence - 24th Aug 2021	JICA's Concurrence - 15th Feb 2022	JICA's Concurrence - 21st Apr 2022	JICA's Concurrence - 13th Oct 2022

QPR 1st Oct 2023 to 31st Dec 2023



**Attachment 4- Project Procurement and Financial
Status till 31st December 2023**

QPR 1st Oct 2023 to 31th Dec 2023

PROJECT PROCUREMENT AND FINANCIAL STATUS TILL 31st Dec 2023

Type	Contract	Awarded or Estimated Value (in Rs. Crore)	Current Status	Contractors	Project Commencement Date	Stipulated Project Completion Date	Revised Project Completion Date After granting the Extension of Time (EOT)	% of Overall Works Progress (Design, Material Procurement and Construction) as per the Primavera Baseline Schedule Updated as of 31 st Dec 2023	% of Financial Progress till 30 th June 2023 (GC Certified) (Excluding Mobilization Advance, Price Adjustment and Work Variation)
CIVIL	Package-1 (CH 0+000 km to CH 10+380 km)	7637.30	Awarded	L&T-IHI Consortium	Mar 2018	21-Sep-2022	15-Dec-2023	100%	98.22%
	Package-2 (CH 10+380 km to CH18+187 km)	5612.61	Awarded	DAEWOO-TPL JV	Mar 2018	21-Sep-2022	15-Dec-2023	100%	96.99%
	Package-3 (CH18+187 to CH21+800)	1013.79	Awarded	L&T	Mar 2018	21-Sep-2021	07-Dec-2023	100%	93.50%
ITS	Package-4 Intelligent Transport System (ITS)	449.00	Awarded	Strabag GmbH JV	June 2022	30-Sep-2023	15-Dec-2023	98.53%	95.68%

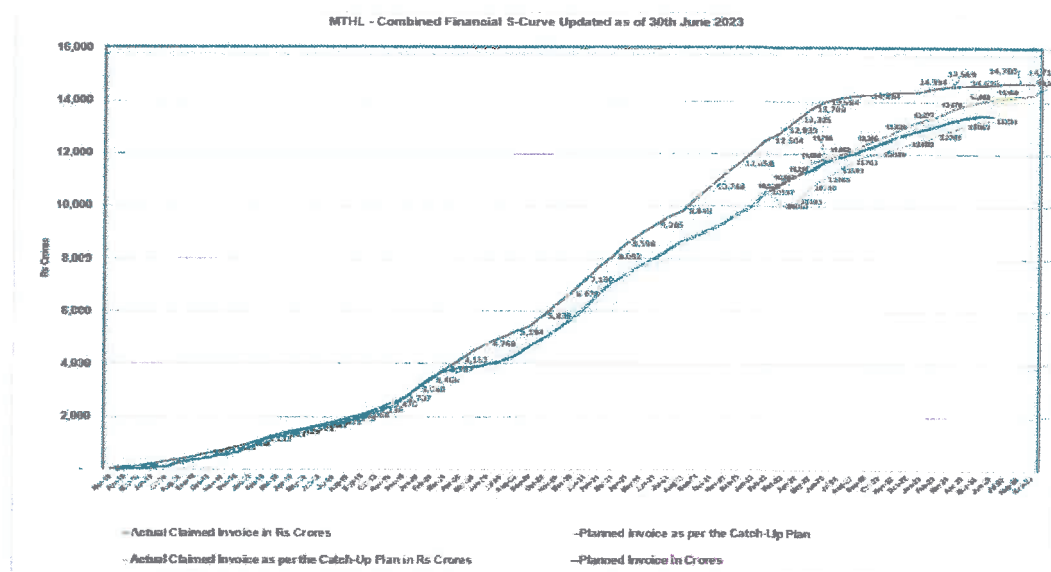
QPR-27 1st Oct 2023 to 31st Dec 2023

Attachment 5- Financial S-Curve for Cumulative Planned Vs Actual Amount in Rs Crores

QPR 1st Oct 2023 to 31th Dec 2023



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Attachment 6- Package-1's Construction Programme Updated as of 31st December 2023

QPR 1st Oct to 31th Dec 2023



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Attachment 7- Package-2's Construction Programme Updated as of 31st December 2023

QPR 1st Oct to 31th Dec 2023

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Attachment 8- Package-3's Construction Programme Updated as of 31st December 2023

QPR 1st Oct to 31th Dec 2023



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Attachment 9- Project Progress Photos for December 2023



QPR 1st Oct to 31th Dec 2023

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Package 1 – Site Progress Photos



Photo 1-



Photo 2-

QPR 1st Oct to 31th Dec 2023



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QPR 1st Oct to 31th Dec 2023

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Photo 4-



Photo 5-



Photo 6-



Photo 7-



Photo 8-



Photo 9-



Photo 10-

Package 2 – Site Progress Photos



Photo 1, 2-

QPR 1st Oct to 31th Dec 2023

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Photo 3-



Photo 4-



Photo 5-



Photo 6-

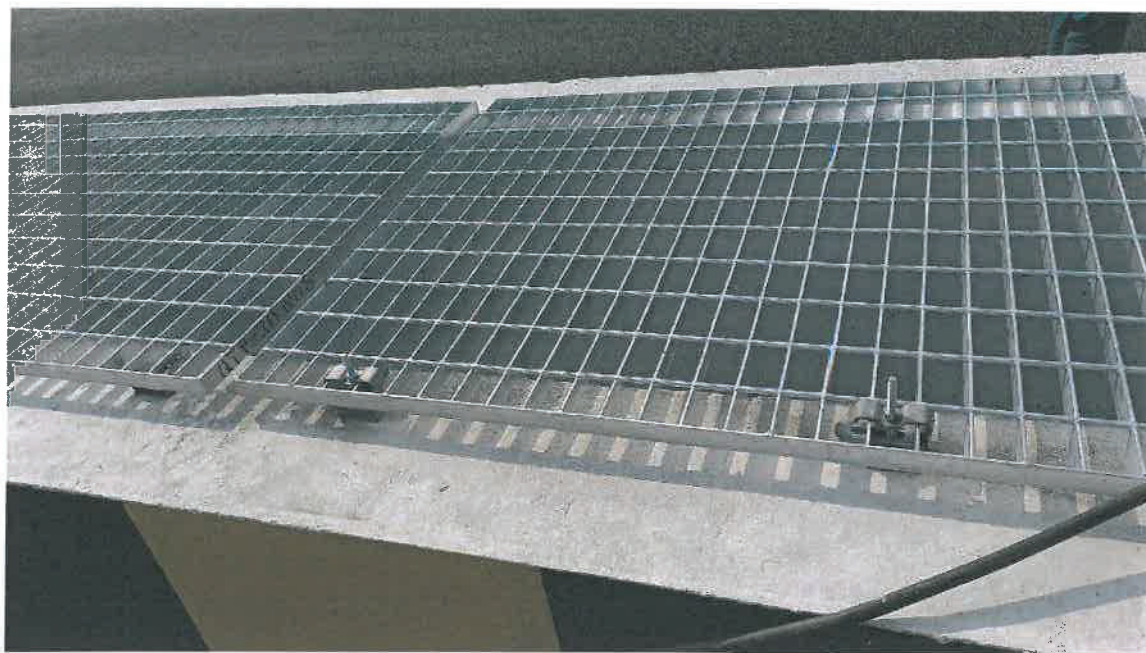


Photo 7,8 -

QPR 1st Oct to 31th Dec 2023

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Photo 9,10 -

Package 3 – Site Progress Photos



Photo 1-

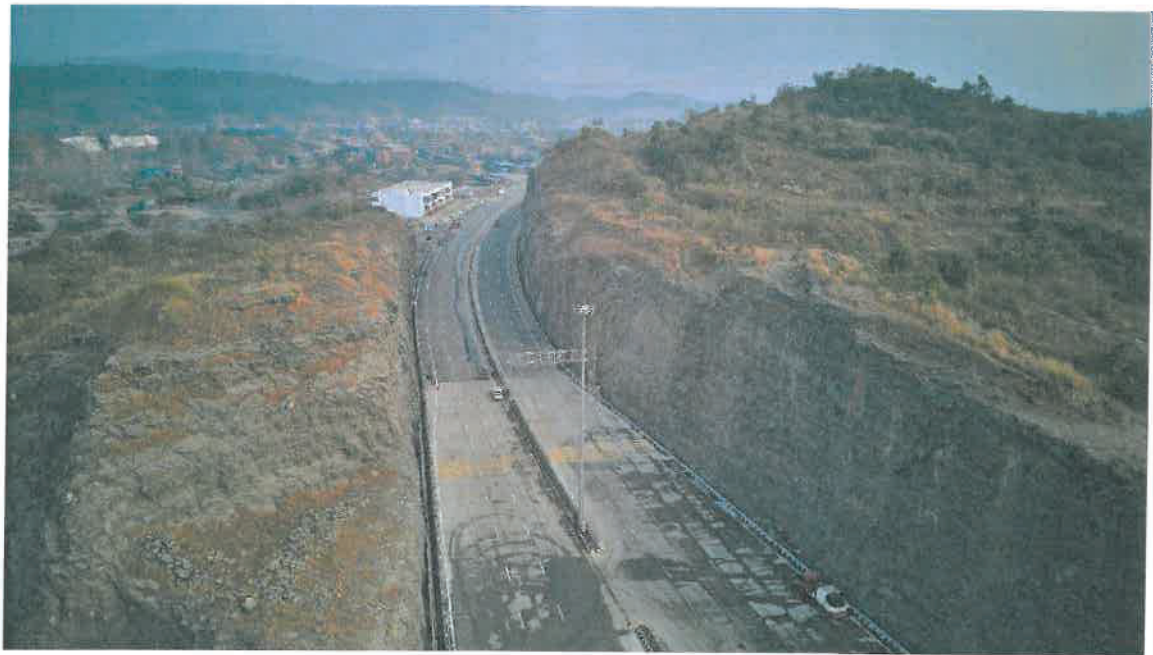


Photo 2-

QPR 1st Oct to 31th Dec 2023

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Photo 3-



Photo 4-



Photo 5-



Photo 6-



Photo 7-

Package – 4 Site Progress Photos



Photo 1-



Photo 2-

QPR 1st Oct to 31th Dec 2023

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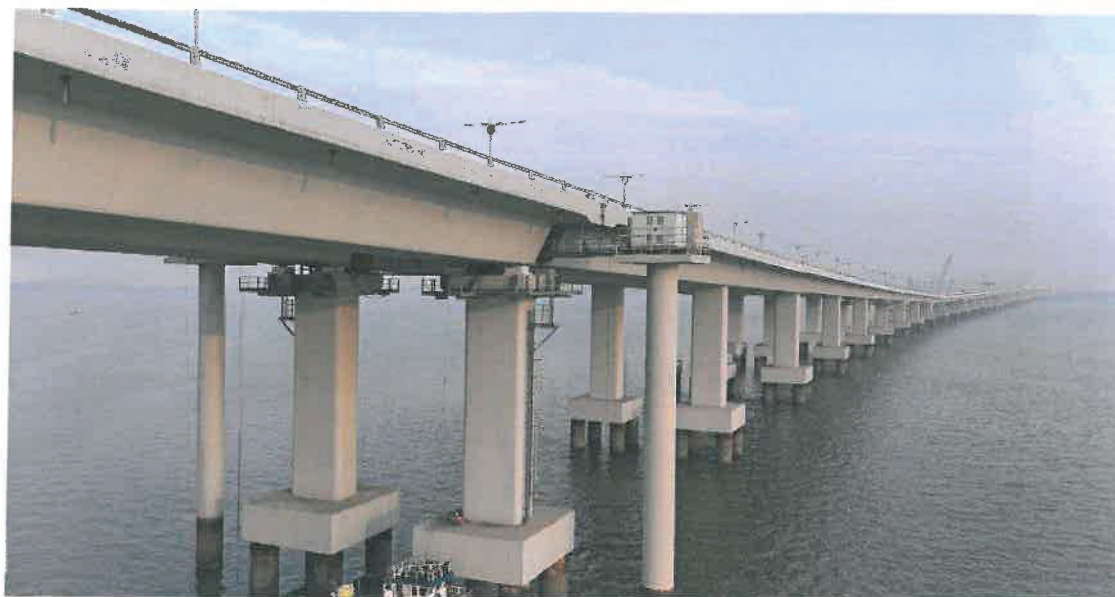


Photo 3-



Photo 4-





Photo 5,6,7- Photographs of Command Control Center



Photo 8- Chirle-Service Road





Photo 9,10,11- Temporary Road Connecting to Ramp 3 & 5 – Shivaji Nagar



Photo 12- MAB – GAVHAN



Photo 13- SAB – SEWRI



Photo 14- SAB – SHIVAJI NAGAR



Photo 15-



Photo 16-

Annexure-1 JICA Reimbursement backup July-2023



QPR 1st Oct to 31th Dec 2023

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Reimbursement details for the month of April 2023

Date of disbursement	Amount of Disbursement in JPY
04-Apr-23	JPY 991,235,908
06-Apr-23	JPY 59,685,930
04-Apr-23	JPY 222,991,575
04-Apr-23	JPY 36,689,963
04-Apr-23	JPY 3,458,019
04-Apr-23	JPY 308,667,466
04-Apr-23	JPY 231,886,804
04-Apr-23	JPY 63,337,875
04-Apr-23	JPY 22,274,238
Total Amount	JPY 1940.22 million



Annexure-2 JICA Reimbursement backup May'2023



QPR 1st Oct to 31th Dec 2023

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Reimbursement details for the month of May 2023

Date of disbursement	Amount of Disbursement in JPY
12-May-23	JPY 314,829,487
12-May-23	JPY 135,125,879
12-May-23	JPY 29,724,135
12-May-23	JPY 95,378
12-May-23	JPY 1,002,128,298
12-May-23	JPY 34,642,414
12-May-23	JPY 38,763,148
12-May-23	JPY 17,953,076
30-May-23	JPY 110,012,453
30-May-23	JPY 35,569,230
30-May-23	JPY 90,695,240
30-May-23	JPY 289,373,568
Total Amount	JPY 2098.91 million

Annexure-3 JICA Reimbursement backup June'2023

QPR 1st Oct to 31th Dec 2023

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Reimbursement details for the month of June 2023

Date of Disbursement	Amount of Disbursement in JPY
06-Jun-23	JPY 100,997,591
06-Jun-23	JPY 17,294,751
06-Jun-23	JPY 794,872,034
06-Jun-23	JPY 13,434,980
27-Jun-23	JPY 23,965,254
27-Jun-23	JPY 99,295,791
27-Jun-23	JPY 51,561,048
27-Jun-23	JPY 165,604,468
27-Jun-23	JPY 622,731,126
27-Jun-23	JPY 858,737,301
27-Jun-23	JPY 111,319,856
27-Jun-23	JPY 275,007,893
Total Amount	JPY 3134.82 million

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

C - 14 / 15, MMRDA Office Bulding
Bandra Kurla Complex, Bandra (E).
Mumbai - 400051
PAN : AAATM7106R

EXPENSES ON MTHL

Group Summary

1-Dec-23 to 31-Dec-23

Page 1
Figures in Crores

Particulars	Opening Balance	Transactions		Closing Balance
		Debit	Credit	
Administrative Charges (MTHL)	1.15 Dr			1.15 Dr
Advertisement & Publicity (MTHL)	0.35 Dr			0.35 Dr
Civil Work (MTHL) - Package-I	8,338.71 Dr	53.36		8,392.07 Dr
Civil Work (MTHL) - Package-II	6,532.11 Dr	17.96		6,550.07 Dr
Civil Work (MTHL) - Package-III	1,133.67 Dr	10.12		1,143.80 Dr
Civil Work (MTHL) - Package-IV	236.32 Dr	86.14		322.46 Dr
Compensation to Fisheries (MTHL)	205.05 Dr			205.05 Dr
Compensation to Leaseholders-MTHL	13.25 Dr			13.25 Dr
Counter Guarantee Fees (MTHL) (MOF)	360.29 Dr			360.29 Dr
Deposit with CIDCO for MTHL	11.21 Dr			11.21 Dr
Forex Loss/ Gain Against JICA Loan No IDP-255	341.75 Cr			341.75 Cr
Forex Loss/ Gain on Mobilisation Advance (MTHL)	33.90 Cr			33.90 Cr
Front End Fees for JICA Loan (MTHL)	27.23 Dr			27.23 Dr
General Consultants Fees (MTHL)	204.89 Dr	2.71		207.59 Dr
General Consultants Fees (MTHL) - Taxable	45.78 Dr			45.78 Dr
Geotechnical Investigation (MTHL)	19.60 Dr			19.60 Dr
Interest & Bank charges on JICA Loan (MTHL)	58.25 Dr			58.25 Dr
Interest on Loan From Megacity- MTHL Extn	1.24 Dr			1.24 Dr
Interest on Loan From Megacity -MTHL Rd Const	29.74 Dr			29.74 Dr
Land Acquisition Cost (MTHL)	943.51 Dr			943.51 Dr
Land Acquisition Cost (MTHL) Taxable	23.19 Dr			23.19 Dr
Legal Charges (MTHL)	0.09 Dr			0.09 Dr
Other Miscellaneous (MTHL)	83.85 Dr	8.39		92.23 Dr
Professional Charges (MTHL)	0.12 Dr			0.12 Dr
Repairs & Maintainance (MTHL)	0.08 Dr			0.08 Dr
Security Deposits - Land (MTHL)	11.10 Dr			11.10 Dr
Service Tax on Mobilisation Adv. on MTHL	3.07 Dr			3.07 Dr
Stamp Duty Reimbursement (MTHL)	0.35 Dr			0.35 Dr
Surveys & Studies (MTHL)	48.64 Dr			48.64 Dr
Grand Total	17,957.18 Dr	178.68		18,135.86 Dr

Forest Land-Raigad and Thane
Diversion of 47.4170 ha of forest land
in favour of the Executive Engineer
(MTHL), MMRDA, Bandra Kurla
Complex, Bandra (E), Mumbai for six
laning of Mumbai Trans Harbour
Link Road in Raigad & Thane district
in the State of Maharashtra.

Government of Maharashtra
Revenue and Forest Department
Government Order No.FLD-1313/C.R.206/F-10

Mantralaya, Mumbai 400032.

Date:-23.01.2024.

Reference:

- 1) Additional Principal Chief Conservator of Forests & Nodal Officer, Letter No. Desk-17/NC/RS-2/ID No.12181/(50)/1406/15-16, dt.02.11.2015.
- 2) Government of Maharashtra letter No.FLD-1313/C.R.206/F-10, dt.30.09.2013.
- 3) Ministry of Environment, Forests & Climate Change, Government of India, (FC Division) F. No. 8-89/2013-FC, dt. 22.01.2016.
- 4) Additional Principal Chief Conservator of Forests & Nodal Officer, Letter No. Desk-17/NC/II/I.D-12181(Pt-3)/1529/2018-19, dt.02.11.2018.
Letter No. Desk-17/Nodal/FCA-S2/P.I.D-3308/Thane/2575, dt. 04.12.2023.
- 5) Government of Maharashtra letter No.FLD-1313/C.R.206/F-10, dt.05.12.2023.
- 6) Ministry of Environment, Forests & Climate Change, Government of India (FC Division) F. No.8-89/2013-FC/12677, dt. .22.12.2023.
- 7) Additional Principal Chief Conservator of Forests & Nodal Officer, Letter No. Desk-17/Nodal/FCA/S2/PID-12181/Thane/2023-24/2861, dt. 08.01.2024.

Order:-

Whereas, the Additional Principal Chief Conservator of Forests & Nodal Officer, Nagpur vide letter under reference No.1 has submitted a proposal to the State Government for diversion of 47.4170 ha of forest land in favour of the Executive Engineer (MTHL), MMRDA, Bandra Kurla Complex, Bandra (E), Mumbai for six laning of Mumbai Trans Harbour Link Road in Raigad & Thane district in the State of Maharashtra;

AND whereas, the State Government vide under letter reference No.2 has sent the proposal for approval of Ministry of Environment, Forests & Climate Change, Government of India (FC Division);

AND whereas, the Government of India after due consideration, vide letter under reference No.3, accorded 'In-principle' approval to divert the 47.4170 ha. Forest Land for the

above project under section 2 of Forest (Conservation) Act, 1980. The said approval is subject to fulfillment of certain conditions by the User Agency;

AND whereas, the Additional Principal Chief Conservator of Forests & Nodal Officer, Maharashtra State, Nagpur vide letter under reference No.4 has submitted compliance of those conditions to the State of Maharashtra;

AND whereas, the State Government vide letters under reference No.5 has submitted compliance of those conditions to the Government of India;

AND whereas, the Ministry of Environment, Forests & Climate Change, Government of India (FC Division), vide under reference no. 6 accorded 'Final approval' to divert the of 47.4170 ha of Forest land in favour of 47.4170 ha of forest land in favour of the Executive Engineer (MTHL), MMRDA, Bandra Kurla Complex, Bandra (E), Mumbai for six laning of Mumbai Trans Harbour Link Road in Raigad & Thane district in the State of Maharashtra under section 2 of Forest (Conservation) Act, 1980;

AND whereas, the Additional Principal Chief Conservator of Forests & Nodal Officer, Maharashtra State, Nagpur vide letter under reference No.7 has requested State Government to issue diversion order in the matter;

NOW, therefore, Government of Maharashtra hereby directs that the area of 47.4170 ha consisting of Protected Forest, Mangrove, Restored Private Forest, Land more specifically described in the proposal submitted vide letter under reference No. 1 and as per details given in the Schedule given below, be diverted to the User Agency, i.e. Executive Engineer (MTHL), MMRDA, Bandra Kurla Complex, Bandra (E), Mumbai for construction of six laning of Mumbai Trans Harbour Link Road in Raigad & Thane district in the State of Maharashtra.

The diversion shall be effected subject to the terms and conditions mentioned in the letters dated 22.01.2016 and dated 22.12.2023 of MoEF&CC, Government of India (FC Division). This approval for diversion of forest land is also subject to compliance of following conditions by the User Agency-

1. If the number of Trees / Mangrove trees to be felled increases during implementation of the project, user agency shall obtain prior permission from Central Government and Hon'ble High Court accordingly.
2. Chief Conservator of Forests (T), Thane shall ensure that the project is being implemented only on forest land for which Central Government has granted forest clearance.
3. The User Agency shall comply with all the conditions stipulated in the 'in-principle' and 'final approval' letters of MoEF&CC, Government of India (FC Division), referred above. The Chief Conservator of Forests (T), Thane shall ensure the strict compliance of the conditions by the User Agency and shall furnish the report in this regard to

Additional Principal Chief Conservator of Forests and Nodal Officer, Maharashtra State, Nagpur from time to time.

4. For ensuring the compliances and for monitoring the duly prescribed activities and also to carry out other statutory duties, user agency shall facilitate unhindered access/entry in the area to the local forest Officer. In case the user agency prohibits the free access or create hindrances, the permission given under this Order for the diversion of forest area for the non-forest use shall be withdrawn.
5. User Agency shall not collect any toll from the vehicles carrying forest officers on duty.
6. Non-compliance of any of the conditions mentioned in MoEF&CC, Government of India (FC Division) letters dated 22.01.2016 and dated 22.12.2023, in this order and Rules & Guidelines made / issued under Forest (Conservation) Act, 1980, shall amount to violation of Forest (Conservation) Act, 1980 and action would be taken accordingly.
7. In case of non-compliance of any of the above conditions, the Chief Conservator of Forests (T), Thane shall report through the State Government to Ministry of Environment, Forests & Climate Change, Government of India (FC Division) as per procedure laid down in guidelines under the Forest (Conservation) Act, 1980.

SCHEDULE

SCHEDULE

Village	Taluka	Dist.	Sur. No.	Legal Status	Area (in ha.)
Alibag Division					
Gavan	Panvel	Raigad	24,25,26,27,41, to 44,52, to 60,76, to 78,80,81,127pt., 480,437pt., 442pt., 444pt., 446pt., 262, 391B.	Protected Forest (1.012 Ha.), Mangrove (37.2754 Ha)	38.2874 Ha.
Jasai	Uran		4/D,4/A,71/A,1A,71/2A, 71/4,71/5,127/3B/B,127/ 3B,127/4A,127/5,127/8,1 27/9,127/10A,127/10B.	Protected Forest (5.5001 Ha.) Restored Pvt. Forest (1.883 Ha)	7.3831 Ha.
Chirle			198,199,6/B (Old Sur No. 6pt).	Protected Forest (0.4465 Ha)	0.4465 Ha.
Thane Division					
Sewri	Kurla	Thane	CTS No. 865	Mangrove (1.30 Ha)	1.30 Ha.
Total Area					47.4170 Ha.

This Government Order is available on Government of Maharashtra's website www.maharashtra.gov.in with Reference No. 202401231735356219 This order has been signed digitally.

By order and in the name of the Governor of Maharashtra.

**GANESH TUKARAM
JADHAO**

Digitally signed by GANESH TUKARAM JADHAO
DN: c=IN, o=GOVERNMENT OF MAHARASHTRA, ou=REVENUE AND FOREST
DEPARTMENT,
2.5.4.20=0078f58512d3acd1315bbbfa4b473ed7729dd2d31644106e29661b9
ee6e92d7d, postalCode=400032, st=Maharashtra,
serialNumber=6FEEDE606678D569A76B842319BD1C2969AA85B8ASCDCCE
E147249F17965E8BB, cn=GANESH TUKARAM JADHAO
Date: 2024.01.23 17:34:54 +05'30'

(Ganesh Jadhao)

Under Secretary to the Government of Maharashtra

Copy:

1. Secretary, Ministry of Environment, Forests & Climate Change, Government of India, New Delhi.
 2. Principal Chief Conservator of Forests (HoFF), Maharashtra State, Nagpur.
 3. Regional Officer (Central), Integrated Regional Office, Ministry of Environment, Forests & Climate Change, Government of India, Nagpur.
 4. Principal Chief Conservator of Forests & CEO, Maha-CAMPA, Nagpur.
 5. Addl. Principal Chief Conservator of Forests & Nodal Officer, Nagpur.
 6. Additional Principal Chief Conservator of Forests (Conservation), Nagpur.
 7. Collector, Raigad & Thane.
 8. Chief Executive Officer, Zilha Parishad, Raigad & Thane.
 9. Chief Conservator of Forests (T), Thane.
 10. Deputy Conservator of Forests, Alibag & Thane.
 11. Executive Engineer (MTHL), MMRDA, Bandra Kurla Complex, Bandra (E), Mumbai.
 12. Select File.
- I. Collector- Raigad & Thane and Chief Executive Officer, Zilha Parishad, Raigad & Thane, are hereby directed to forward the copy of this order to concerned Heads of Local Bodies, Panchayats, Municipal Bodies in addition to the relevant offices of the Government and they shall also ensure the display of this order on their notice board as well as on the notice board of local self-government bodies for the information of general public.
- II. Executive Engineer (MTHL), MMRDA, Bandra Kurla Complex, Bandra (E), Mumbai is hereby directed to publish the entire order of forest clearances granted in verbatim along with the details of Survey No., Gut No., area and legal status of each Survey, Gut No. etc. and along with the conditions and safe guards imposed by the Central Government while granting forest clearances in two widely circulated daily

newspapers, one in vernacular language and other in English language. Copy of the Newspapers be submitted to Chief Conservator of Forests (T), Thane, Deputy Conservator of Forests, Alibag & Thane.

III. Heads of Local Bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government are hereby directed to display the same on their notice board for 30 days from the date of receipt for the information of general public.



Office of the Additional Principal Chief Conservator of Forests,
Mangrove Cell, Mumbai
And Executive Director, Mangrove and Marine Biodiversity
Conservation Foundation of Maharashtra

302, Wakefield House, 3rd Floor, Ballard Estate, Above Britannia & Co. Restaurant, Fort,
Mumbai-400 001

Ph: 022-2694984 / 85 Email: ccfmmumbai@gmail.com / ccfmangrove@mahaforest.gov.in



MFN/DDR&CB/ 462 /2021-22

Date: - 03.02.2022


To,
The Engineer in Chief
MTHL-PIU
MMRDA

Sub: Report regarding the mangrove plantation carried out as a part of the MMRDA-MTHL Project

Ref: Minutes of the third PIC meeting with respect to the Bird Monitoring Programme of the MTHL Project

With reference to the above subject, during the third PIC meeting of the Bird Monitoring Programme of the MTHL Project, it was decided that a report regarding the 200 hectare mangrove plantation carried out by the Maharashtra Forest Dept. through the funds provided by MMRDA (as compensatory afforestation) should be submitted to the MMRDA.

In this regard, kindly find attached the said report with this letter.


(Virendra Tiwari)
Addl. Principal Chief Conservator of Forests,
Mangrove Cell, Mumbai &
Executive Director, Mangrove Foundation

MMRDA – MTHL Mangrove Restoration Report



Mangrove Cell

Forest Department of Maharashtra

About Project

Mangrove plantation in lieu of the mangrove area likely to be affected during the construction of Mumbai Trans Harbour Link (MTHL) project.

AS per the CRZ clearance for MTHL Project MMRDA was instructed to restore 5 times the mangroves cut/ disturbed by the project. As per the mandate, 200 hectares of plantation was carried out as compensatory Afforestation. All the plantations done under the project are maintained for the period of five years as per approved estimate and amount received.

For this MMRDA had requested mangrove Cell to prepare a mangrove plantation program 200 hectares. Mangrove Cell had identified 200 hectares area for mangrove plantation and total amount of Rs 49,59,822 was paid vide T O dated 9.05.2016 for 30 hectares. Further amount of Rs. 4,56,29,600 was paid vide cheque no 216609 dated 13.10.2016 for 170 hectares. The mangrove planation involves plantations of 4444 sapling per hectare and therefore total of 888800 saplings and additional 20 percent causality was replaced for the period of three years as per the estimate.

Details of Restoration work

Sr No	Division	Year	Range	Place	S. No	Ha	Survival percentage	GPS Locations
1	Dahanu	2016-17	Boisar	Mouje Pamtembi	161	15	71.02	19.571982; 72.821682
2			Saphale	Mouje Karwela	47	15	72.00	19.553711; 72.845790
3		2017-18	Boisar	Chandigaon	729	10	64.05	19.936829; 72.730574
4			Boisar	Pamtembi	161	10	75.20	19.805105; 72.705118
5			Boisar	Salwad	107	10	68.0	19.810528; 72.715928
6			Saphale	Makunsar	283/A	20	63.50	19.604865; 72.763378
7	MMCU		TCFS	Kanjur	275 C.S.N 657A	10	20	19.065557; 72.565564
8			TCFS	Mulund/ Bhandup	157 C.S.N 1318	15	57	19.084174; 72.580663
9	Dahanu	2018-19	Palghar	Shirgaon	1287	10	54.09	19.688655; 72.711506
10			Palghar	Dhansar I	64	20	46	19.708259; 72.732071
11			Palghar	Dhansar 2	64	25	51.1	19.709843; 72.727397
12			Boisar	Navapur	161	10	71.87	19.800481; 72.692326
13			Boisar	Salwad	107	10	69.79 ^{***}	19.810528; 72.715928
14			Saphale	Karwela	47	20	82	19.552433; 72.841222

Mouje Pamtemhi (2016-17)

Survey No. 161



Mouje Karwela (2017-18)

Survey No.47



Chandigaon (2017-18)

Survey No.729



Pamtembhi (2017-18)

Survey No.161



Salvad (2017-18)

Survey No.107



Makunsar (2017-18)

Survey No.283/A





Kanjurmarg(2018-19)

Survey No.275



Mulund/ Bhandup(2018-19)

Survey No.275



Shirgaon (2018-19)

Survey no-1287



Dhansar 1 (2018-19)

Survey No-64



Dhansar 2 (2018-19)

Survey No-64



Navapur (2018-19)

Survey No-161



Survey No-107



Karwale (2018-19)

Survey No-47



Annexure XV
MTHL – BNHS Annual Report

Monitoring and Mitigating the Impacts of Mumbai Trans-Harbour Link on Flamingos and other Avifauna and Formulating a Conservation Blueprint for the Sewri–Nhava Seascape

Fifth Annual Report
2021–2022

Submitted to
Mangrove and Marine Biodiversity Conservation Foundation of
Maharashtra



Submitted by



“Conservation of nature, primarily biological diversity,
through action based on research, education and public awareness.”

Hornbill House, Shaheed Bhagat Singh Road
Opposite Lion Gate, Fort, Mumbai 400 001
www.bnhs.org, director@bnhs.org
Tel - 91-22-22821811

Monitoring and Mitigating the Impacts of Mumbai Trans-Harbour Link on Flamingos and other Avifauna and Formulating a Conservation Blueprint for the Sewri–Nhava Seascape

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2022

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Layout and Design – V Gopi Naidu & Sanchita S. Kadge

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Disclaimer

The observations represented in this report are based on study duration mentioned in the report. The observations may change or vary depending upon on further surveys and thus it should not be used as a stand alone report.

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Abbreviations	
BPS	Bhandup Pumping Station
DPS	Delhi Public School
FCS	Flamingo Count Survey
IBA	Important Bird Area
IBCN	Indian Bird Conservation Network
IUCN	International Union for Conservation of Nature
LC	Least Concerned
MMRDA	Mumbai Metropolitan Region Development Authority
MTHL	Mumbai Trans-Harbour Link
NRI	Non-residential Indian Complex
NT	Near Threatened
PoM	Post-Monsoon
PrM	Pre-Monsoon
TCS	Transact Count Survey
TSC	Training Ship Chanakya
VU	Vulnerable
WCS	Wetland Count Survey

Summary

The migratory bird population in wetlands was increased from the winter till spring afterwards their numbers were relatively low during summer migration season. On the other hand, the resident bird populations showed variations across seasons ranged from 316 to 1701 individuals. A large congregation of the Lesser flamingo was recorded inhabiting at DPS (11800) and TSC wetlands (7500) whereas Greater flamingo congregation was observed mainly at BPS wetland (800). Previously they were seen inhabiting nearby Non-Residential Indian complex (NRI) wetland for roosting (Apte et. al 2018 and 2019).

A gradual change in the abundance of migratory birds was observed at Thane creek from November (123468) to April (40930). Abundance of migratory shorebirds reached its peak in January (137237) whilst the lowest number of individuals were recorded in May (3789). On the other hand, resident bird population was more or less stable throughout season ranging from 798 to 1967 individuals. We found that the migratory shorebirds showed preference towards certain areas of the creek such as mudflats near Ghansoli and Vashi.

The lesser flamingo population was lowest in October and November 2021 while later on population increased remarkably until April. Overall, average 55166 (SD = ± 21836) Lesser flamingos were recorded in creek, ranged from 16422 to 81917, excluding October and November counts. On the other hand, Greater flamingo abundance in 2021-22 was highest in past four years, ranged from 6015 to 49755, average 10009 (SD = ± 13597). At both the construction sites Lesser flamingos were predominantly higher in number than Greater flamingos. Overall, both the species of the flamingos were observed to prefer Sewri mudflats over Nhava throughout the season. Maximum Lesser flamingos were recorded at Sewri (24200) and Nhava (14385) and Greater flamingos at Sewri (2817) and Nhava (227).

In total, 97 behaviour recording sessions were carried out (35 at creek/feeding site, 41 at wetlands/roosting sites and 21 at construction site) along with data on different disturbance regimes. During these sessions, 7675 behaviour videos of 10 migratory shorebird species were recorded. Out of that 2181 videos were recorded at construction site, 2812 at feeding site and 2682 at roosting site.

Introduction

Mumbai is located in the Konkan Plains of the northern Western Ghats. Due to its key geographic position and abundant natural resources, Mumbai has always been a centre of development since the colonial period. It is the financial capital of the nation, and the ninth most populous city in the world, with a current population of 26.6 million (UN 2012). The Mumbai Metropolitan Region Development Authority (MMRDA), the planning authority for Mumbai Metropolitan Region (MIMR), has predicted in its 40-year concept plan that the city would have 44 million inhabitants spread over 1050 sq. km by 2052, which is almost double the present area 603 sq. km (Kamdar 2014). This means there will be tremendous pressure on the already shrunken natural habitats, especially mangroves, coastal mudflats and remnant patches of the natural forests, which will eventually impact the biodiversity (Nagendra et al. 2012). Given the coastal features of the city, the disappearance of the mangroves

and mudflats may leave the city not only vulnerable to local environmental issues such as floods, toxic runoffs, siltation and reduction in the groundwater, but also to global disasters such as cyclones, tsunamis and sea-level rise due to global climate change (Kleppel et al. 2006). Alongside the environmental concerns, Mumbai also faces the inevitable need for development.

The Mumbai Trans Harbour Link (MTHL), the 22-km bridge connecting Southern Mumbai (at Sewri) with Southern Navi Mumbai (at Nhava Sheva), is one such developmental project that is set to bring Mumbai closer to its satellite city. The alignment passes over Sewri Mudflat, which is key wintering ground for migratory shorebirds, and is identified as an Important Bird Area (IBA) by the Indian Bird Conservation Network IBCN, (Rahmani et al. 2016). In addition, part of Thane Creek is declared as the Thane Creek Flamingo Sanctuary. The intertidal mudflats in this creek harbour a large congregation of waterbirds including ducks, waders and large proportion of the South Asian population of Lesser Flamingo *Pheonicopterus minor*, a Near Threatened species (Vijayan et al. 2008).

Habitats along this Indian coasts such as creeks, mangroves, mudflats, salt marshes and wetlands harbour rich coastal and marine biodiversity. This western coast is also considered as the main wintering grounds for the waders migrating from Central or South Asia (Balachandran 2006). The MTHL project is likely to affect waterbirds of Sewri Mudfat, Thane Creek and wetlands of Navi Mumbai. Hence, MMRDA has approached BNHS to monitor the impacts of the bridge on flamingos, other avifauna and marine fauna, and suggest a mitigation plan for the conservation of waterbirds and their habitats. The study duration is of 10 years (2017-2027) and is focusing on long-term examination of the ecology of shorebirds and marine benthic fauna with respect to human disturbances, particularly the MTHL bridge construction.

Objectives

1. Estimate the occupancy and abundance of avifauna during pre-construction, construction and post-construction period.
2. Understand the migration pattern and population demographic of the migratory avifauna.
3. Understanding the biological and physicochemical parameters of the foraging grounds of flamingos and waders
4. Study the heavy metal concentration and accumulation in the birds and their food chain
5. Conduct bird conservation training programme for staff involved in construction work of MTHL
6. Study the impact of construction on the foraging habitat (post project monitoring) for suggesting and implementing the restoration measures.

Methodology

Study site

This study was carried out in six inland wetlands (high tide roosting sites)— Training Ship Chanakya (TSC), Bhandup Pumping Station (BPS), Non-Residential Indian (NRI) complex, Mankhurd salt pans, Kharghar wetland, and Belpada mangrove and three mudflats (low tide feeding sites) — the east and west banks of Thane Creek, mudflats of Sewri and Nhava-Sheva.

Bird sampling

We counted shorebirds during high tide at high tide roosting sites following WCS protocol and during low tide at foraging sites following TCS protocol. In addition, flamingos were counted separately during low tide at feeding sites using FCS protocol. We also recorded shorebirds behaviour at roosting, feeding and construction sites. Bird ringing was carried out at high tide roosting sites during high tide (for details of the sampling protocol, please refer to Apte et al. 2018 and 2019 —unpublished reports).

All these surveys were conducted between October 2021 to May 2022. We did not complete some of the surveys in September 2021 and January 2022 due to heavy rain and COVID-19 pandemic respectively.

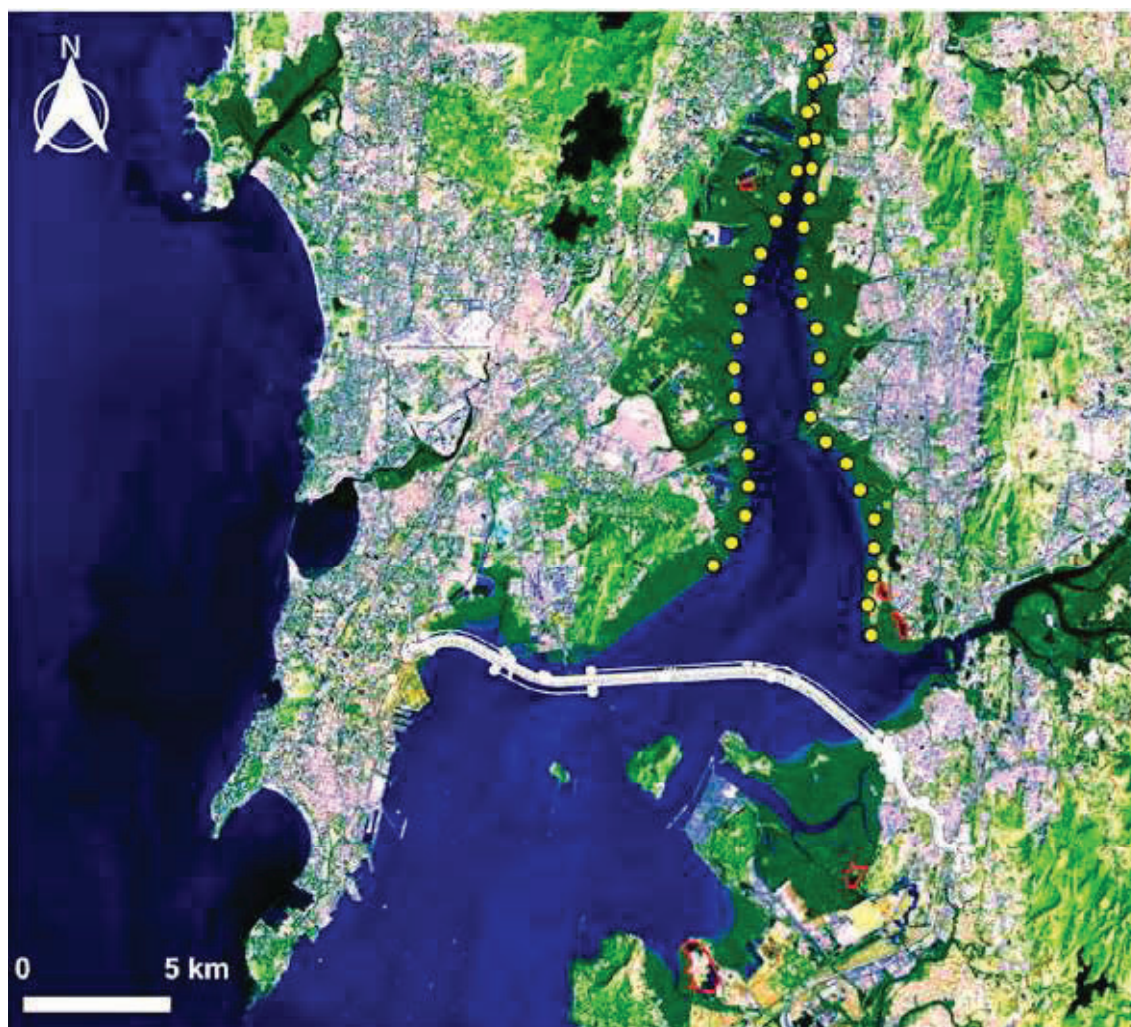


Fig. 1. Land use and land cover map of study area with study sites: Land use and land cover map of the study area was developed using Landsat 8 satellite imagery (January 2018; band combinations = 7, 5 and 3). Wetlands are highlighted with red polygons and the transects with yellow circles. Forest and mangroves appear in shades of green, the darker colour indicates healthy and dense vegetation; urban areas are marked with cyan or purple; and soil colours vary from dark to light brown; moist soils are darker

Results

Wetland Count Survey (WCS)

In all, a total of 79 species (51 migrants and 28 residents) of shorebirds were recorded from the wetlands/ high tide roosting sites. Migratory shorebird abundance increased gradually till March followed by a sharp decrease in April and May during return migration (Fig. 2). Overall, maximum number of migratory shorebirds were recorded in March (34014) and only 528 individuals were observed in October (Fig. 2). A considerable amount of variation was observed in the number of resident shorebirds throughout the seasons in which most abundance was recorded in the month of January 2022 (1701) and least in October 2021 (316) (Fig. 3).

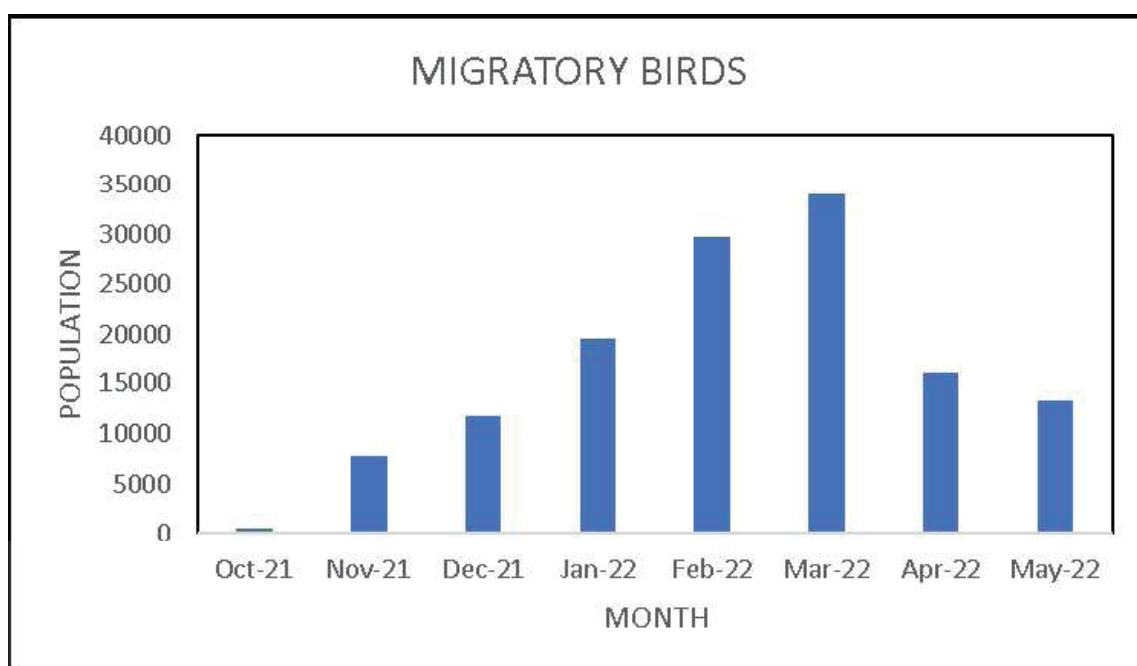


Fig. 2: Migratory shorebird abundance in the wetlands from Oct 21–May 22

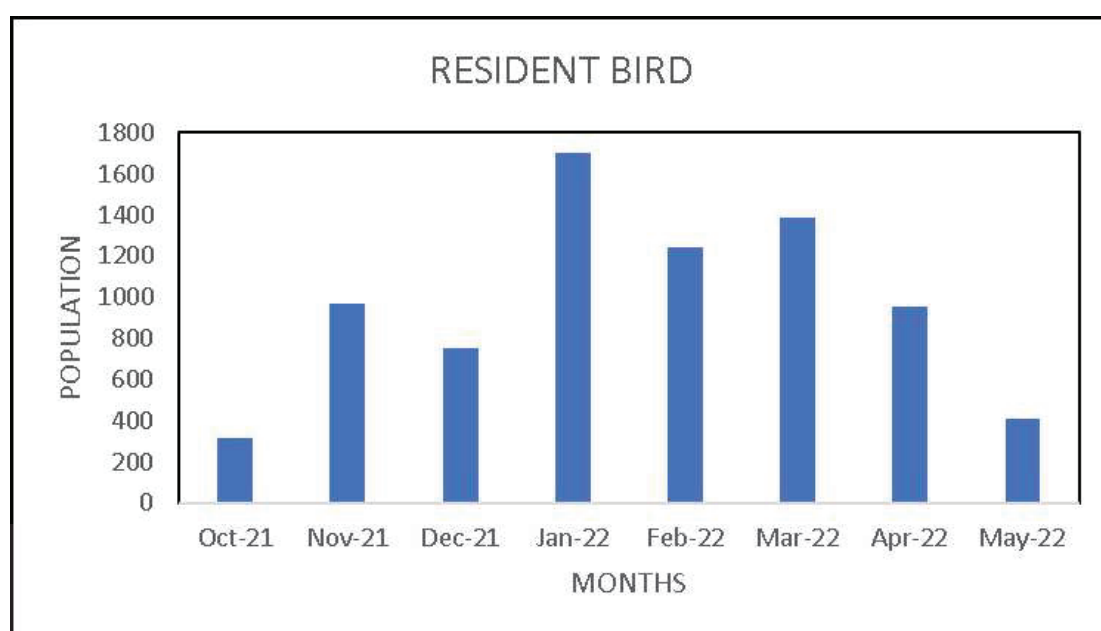


Fig. 3: Resident shorebird abundance in the wetlands Oct 21–May 22

Among all the wetlands, DPS (12075 in March) and Mankhurd (15785 in February) supported a substantially high number of migratory shorebirds, followed by BPS (8234) and TSC (7404) in January 2022. We observed that the overall abundance of shorebirds increased sharply from December till late March and started decreasing steadily (Fig. 4).

As observed in 2020-21, DPS and TSC were the most preferred hightide roosting sites for Flamingos in 2022 as well. In contrast, BPS and NRI favoured higher number of Greater flamingos than Lesser flamingos

(Table 1). These observations highlight the importance of the network of wetland/high-tide roosting sites in the long run for the conservation of migratory shorebirds.

Table 1: Maximum count of Flamingos observed at each wetland from Oct 2021-May 2022.

Site	Lesser flamingo	Greater flamingo
Belpada	0 (November)	1 (November)
BPS	335 (January)	800 (January)
TSC	7500 (May)	135 (February)
NRI	2 (April)	172 (February)
DPS	11800 (March)	120 (March)
Khargar	0 (May)	0 (May)
Mankhurd	0 (May)	0 (May)

We observed temporal variation in species richness across all wetlands from November 2021 to April 2022. The highest species richness was observed in BPS and TSC (29 species at both the wetlands) in January 2022.

We recorded nine Near-threatened and one Endangered (IUCN 2022). species during this study (Table 2).

Table 2: Threatened species recorded during wetland survey.

Sr. No.	Threatened species	IUCN status
1	Painted Stork (<i>Mycteria leucocephala</i>)	NT
2	Lesser Flamingo (<i>Phoeniconaias minor</i>)	NT
3	Black-headed Ibis (<i>Threskiornis melanocephalus</i>)	NT
4	Black-tailed Godwit (<i>Limosa limosa</i>)	NT
5	Eurasian Curlew (<i>Numenius arquata</i>)	NT
6	Great Knot (<i>Calidris tenuirostris</i>)	EN
7	Curlew Sandpiper (<i>Calidris ferruginea</i>)	NT
8	River tern (<i>Sterna aurantia</i>)	NT
9	Bar-tailed Godwit (<i>Limosa lapponica</i>)	NT

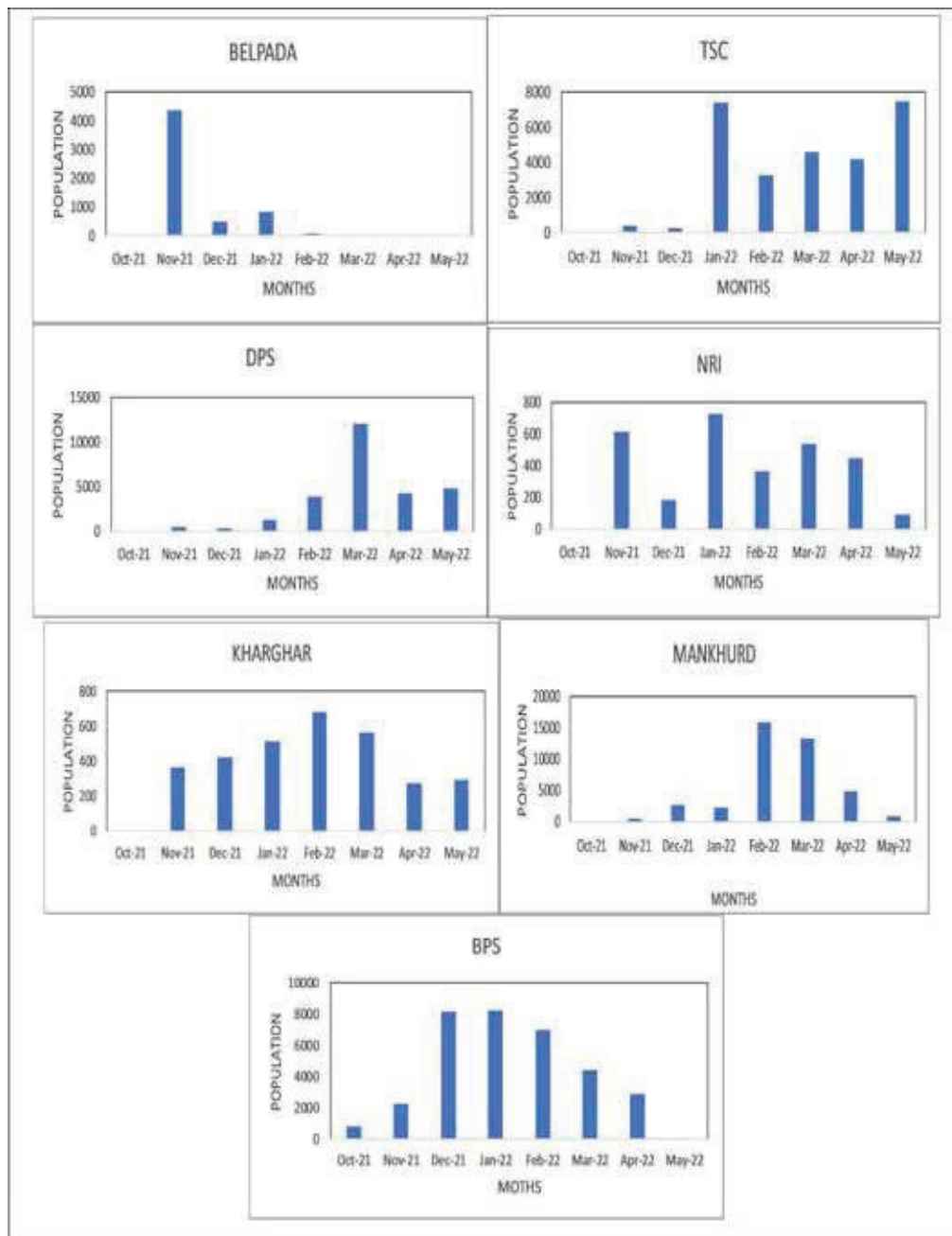


Fig. 4: Site-specific abundance of the shorebirds in the wetlands Oct 21–May 22

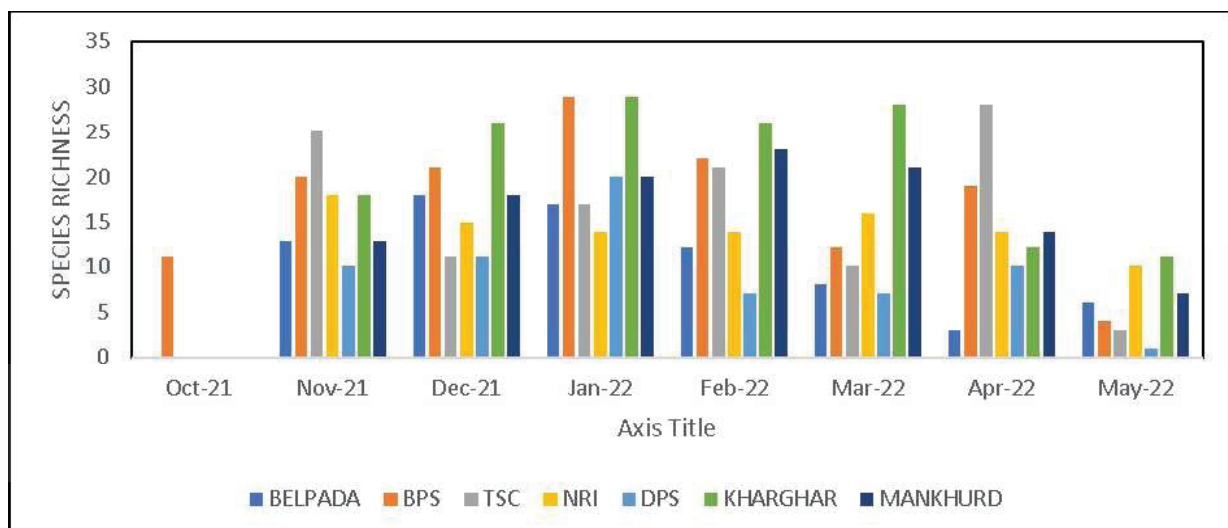


Fig. 5: Species richness of migratory shorebirds in the wetlands Oct 21–May 22

Transect Count Survey (TCS)

Thane Creek

We recorded a total of 65 species of waterbirds and raptors in the creek between October 2021 and May 2022. Among these, 47 species were migratory (43 shorebirds species and 4 raptor species), and 18 were resident birds. Resident bird abundance was relatively lower than that of migratory birds.

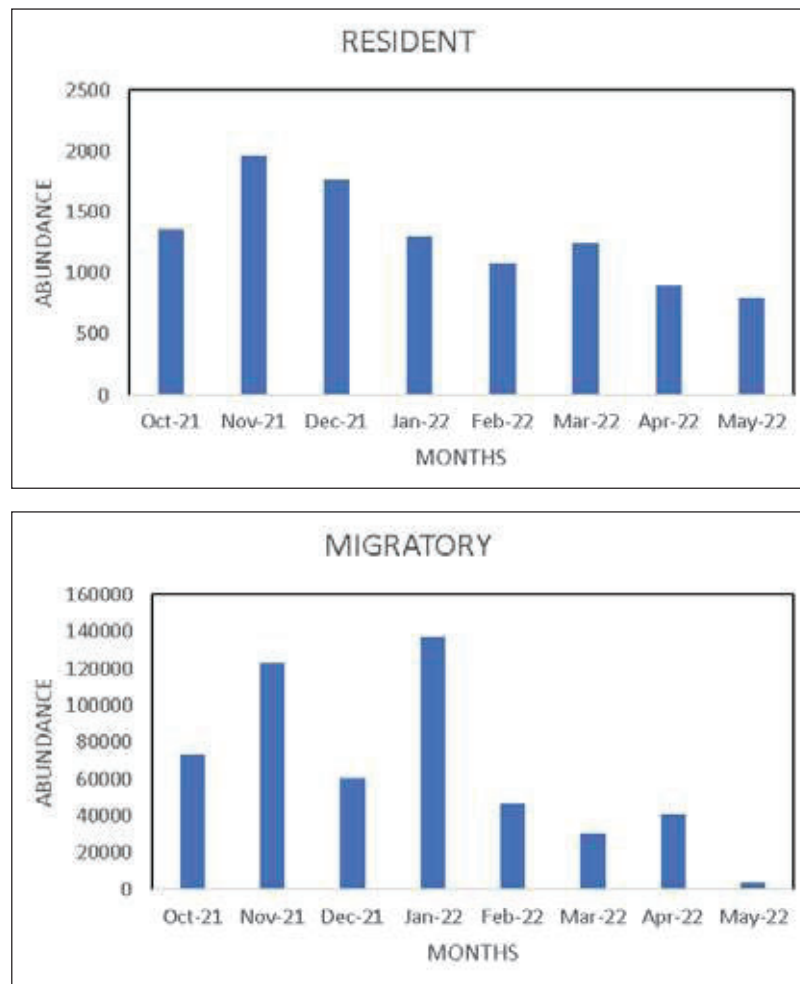


Fig. 6: Abundance of migratory shorebirds and resident birds in the creek Oct 21–May 22

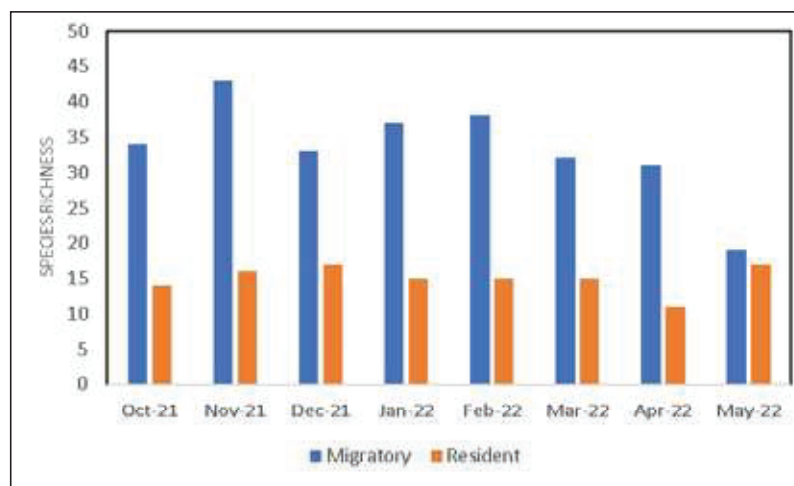


Fig. 7: Species richness of migratory shorebirds and resident birds in the creek Oct 21–May 22

Migratory shorebird population in the creek attained a peak in January (1,37,237 individuals) with a substantial contribution of waders. Most notable was Little Stint (*Calidris minuta*) — a total of 57,201 individuals were observed in November 2021.

Overall, species richness of migratory shorebirds was greater throughout the surveys (mean= 33.38, SD= 6.99) than resident birds (mean= 15, SD= 1.93) (Fig. 7).

A similar spatial distribution pattern was observed in the creek as seen in 2020-21. The largest congregations were found at Ghansoli (T1 and T40) and Vashi (T31–T33 and T36-T39) (Fig. 8). It indicates that the shorebirds have predominantly preferred the east bank of the creek over the years.

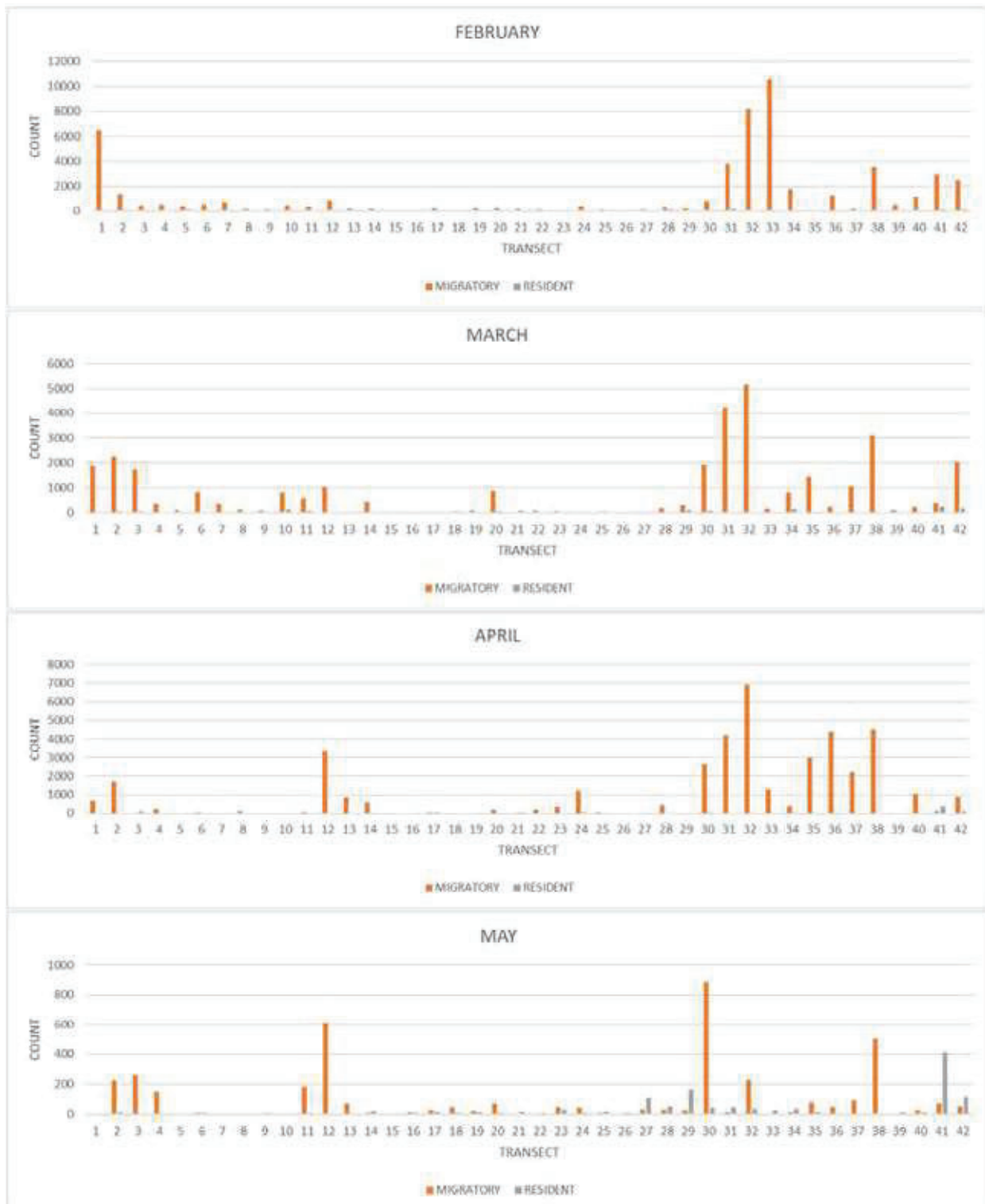




Fig. 8: Abundance of migratory and resident birds in Thane Creek, and Sewri and Nhava-Sheva mudflats Oct 21–May 22

Migratory shorebird counts were highest in November 2021 at Sewri (17456) and December 2021 at Nhava-Sheva (5171) mudflats, and thereafter the numbers declined gradually (Fig. 9).

The number of species at Sewri was highest in December (18), whereas only 14 species were recorded at Nhava-Sheva. The species richness of resident birds remained rather steady throughout the seasons (Fig. 10). We could not conduct bird surveys at construction sites during January month as these sites were prohibited due to Covid - 19 pandemic norms.

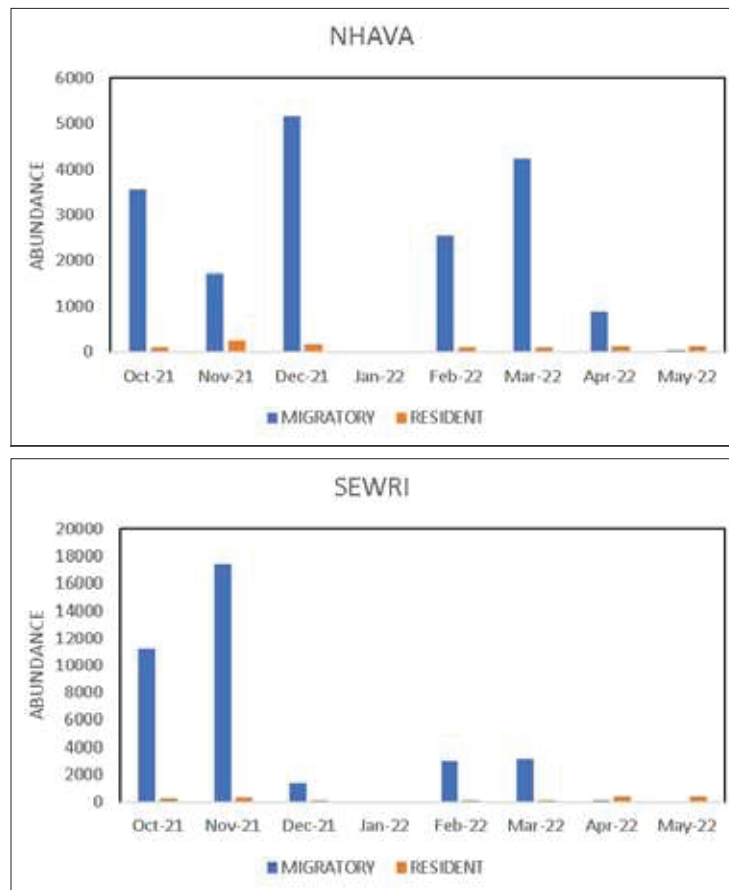


Fig. 9: Abundance of migratory and resident birds at Sewri and Nhava-Sheva mudflats Oct 21–May 22

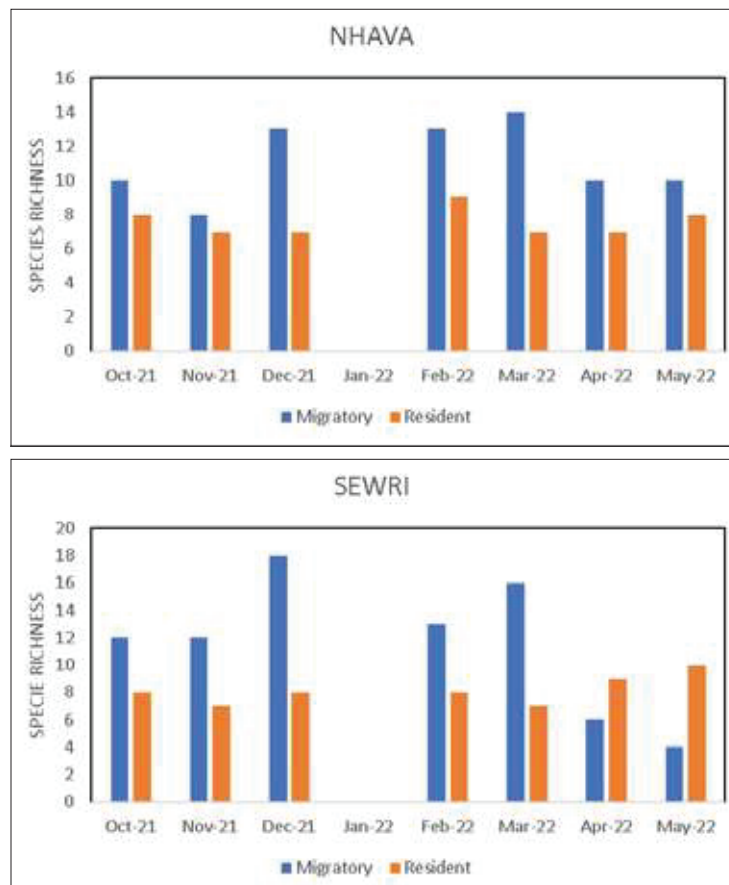


Fig. 10: Species richness at Sewri and Nhava-Sheva mudflats Oct 21–May 22

Flamingo Count Survey (FCS)

Abundance of flamingos in the Creek

The highest number of Lesser flamingos were estimated in April 2022 (81970) and the lowest in October (25) and November (44) 2021. The lesser flamingo population increased gradually from December 2021 (16422) to April 2022, but the number reduced to almost half in May 2022 (48360) (Fig.11). In April 2022, the number of adult lesser flamingos (73.6%) were substantially higher than that of juvenile (11.8%) and subadult (14.6%) population.

In contrast to previous years, Greater flamingos returned in superior numbers in 2022. The lowest number of individuals were recorded in the month of October 2021 (6015) which was still higher than the numbers estimated in the previous year. Maximum population of Greater flamingos occupied the creek in January 2022 (49755) (Fig. 12).

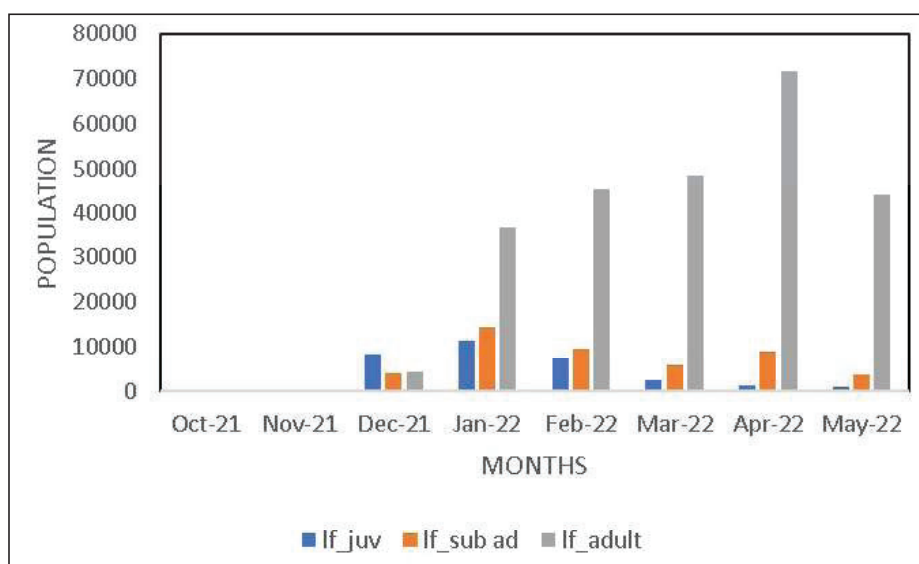


Fig. 11: Population of Lesser Flamingos recorded from Thane Creek Oct. 21–May 22

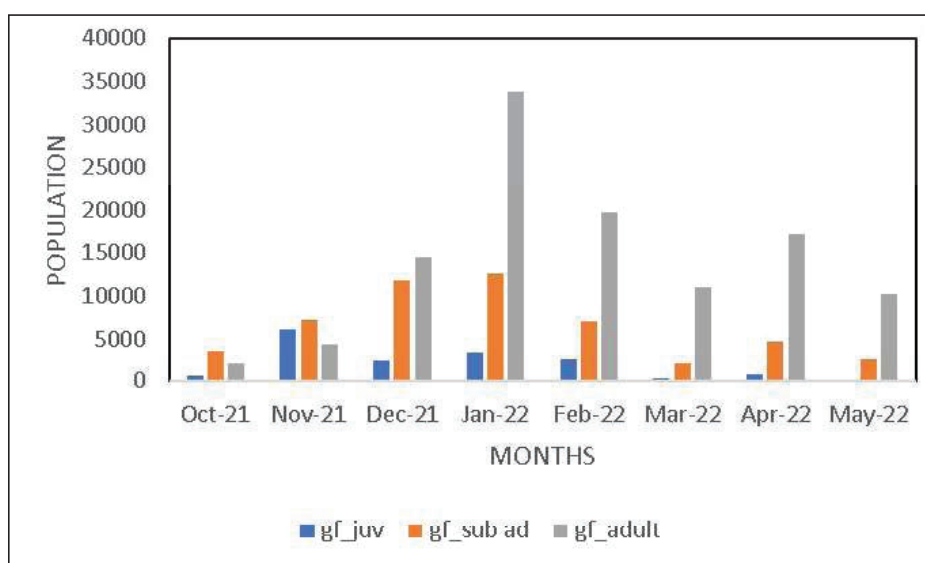


Fig. 12: Population of Greater Flamingos recorded from Thane Creek Oct. 21–May 22

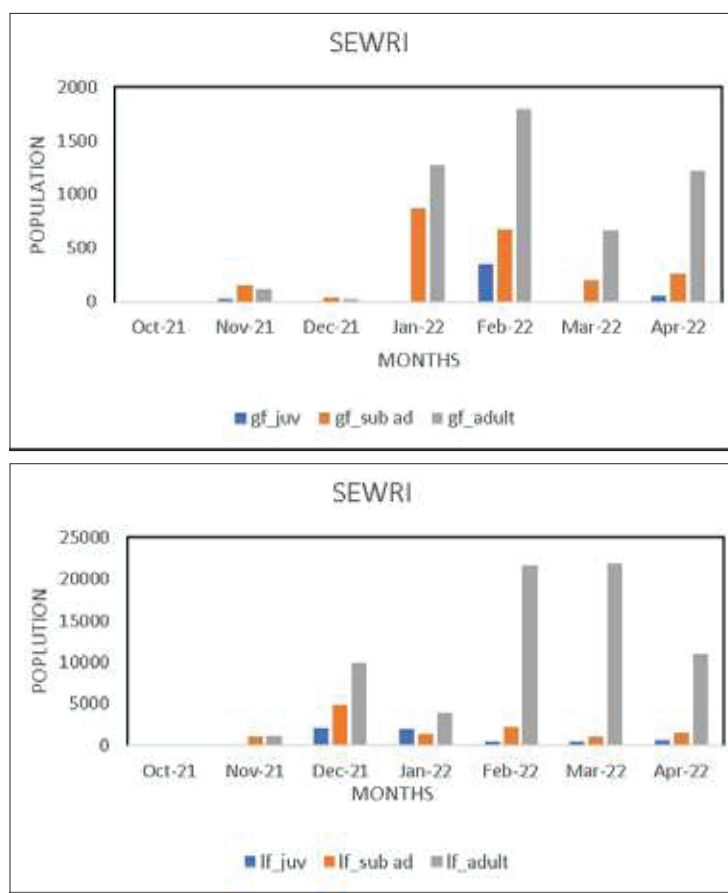


Fig. 13: Population of Lesser and Greater flamingos recorded from Sewri Oct. 21–May 22

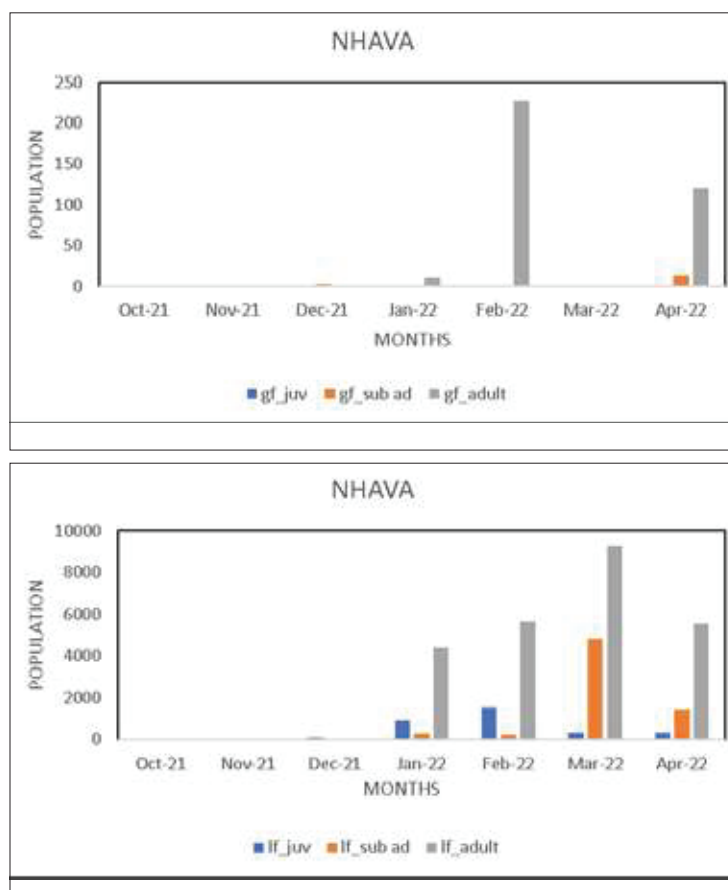


Fig. 14: Population of Lesser and Greater flamingos recorded from Nhava-Sheva mudflats Oct. 21–May 22

The abundance of Flamingos at Sewri was irregular throughout the year where the population of Lesser flamingos peaked directly in March (24200) and April (23310) 2022. Greater flamingos were lower in number (2817 in March) compared to Lesser flamingos but the numbers were higher than what was recorded in the previous year. A similar pattern was observed at Nhava-Sheva but very few Greater flamingos preferred Nhava-Sheva throughout the year (Only 227 individuals). Proportion of adult flamingo population was highest at both the sites followed by sub-adults and juvenile (Fig. 13 & 14).

Shorebird Behaviour Survey

We conducted 97 behaviour recording sessions at feeding, roosting and construction sites (35 at creek/feeding site, 41 at wetlands/roosting sites and 21 at construction site). During these sessions, we recorded 7675 behaviour videos of 10 migratory species. Disturbances such as local fishing, vehicles and instrument noise at construction sites as well as occasional predator attacks were observed during these recording sessions. Furthermore, all the 7675 videos were transcribed in the monsoon period for further analysis. A summary of total videos transcribed in each month is given in the table below (Table 3).

Table 3: A summary of total videos transcribed in each month from May to August 2022

	May-22	June-22	July-22	August-22
Construction site	250	700	700	531
Feeding Site	300	900	832	780
Roosting Site	450	800	735	697
Total	1000	2400	2267	2008

Behaviour observation

The behavioural study of Black-tailed godwit *Limosa limosa* for season, (September 2021 to May 2022) analysed (Fig. 15) for feeding sites and roosting sites including total of n=295 individuals from feeding site (Vashi, Ghansoli and Vitava) and n=248 from roosting site (TSC, BPS, NRI, DPS, Mankhurd, Kharghar and Belpada). In the feeding site the disturbance level was comparatively lower (94.49075%) with higher movement (67.96 %) compared to that in roosting site. Maintenance, vigilance, and resting activity was comparatively lower in the feeding site than in roosting site respectively (7.95, 11.00, 4.07).

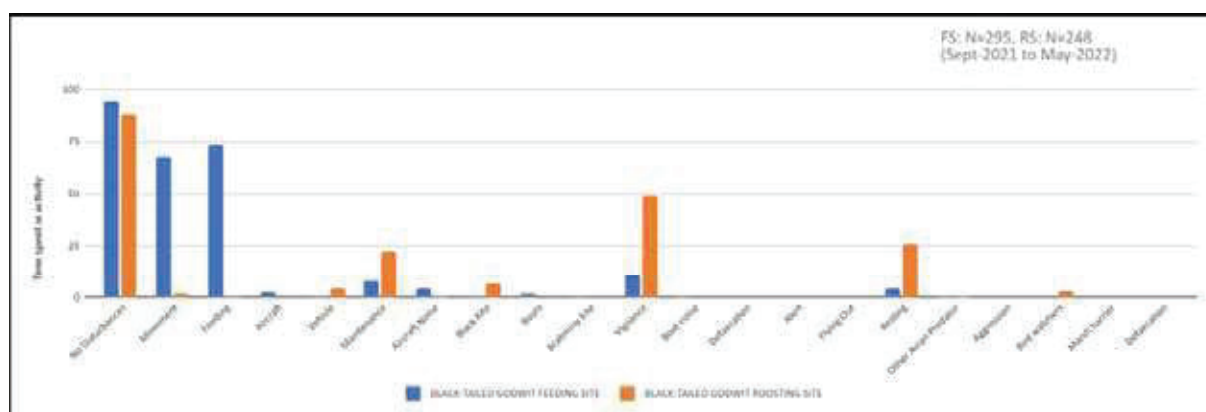


Fig. 15: Activity budget of Black-tailed godwit at feeding and roosting site

The behavioural study of Lesser flamingo *Phoeniconaias minor* for season (September 2022 to May 2022) was analysed (Fig. 16) separately for three sites respectively i.e., construction site, feeding site, and roosting sites. Feeding activity was recorded highest in the construction site (88.91%). Movement activity was highest in construction site (89.76%) followed by that in feeding site (88.98%) whereas resting activity was markedly higher in the roosting site (23.40%). Maintenance and vigilance aspects were highest in the roosting site respectively (22.84%, 7.98%.) followed by that in feeding site (5.072%). Frequency of vehicles were prominently higher in Construction sites (9.07%) followed by that in roosting sites (0.40%). Construction activity was only found in the construction sites (1.64%). Other peoples were recorded more frequently in the construction sites (11.24%). Aggression behaviour was higher at construction site (0.08%) followed by that in feeding site (0.01%). Birdwatchers were major disturbances at all the roosting sites (7.01%).

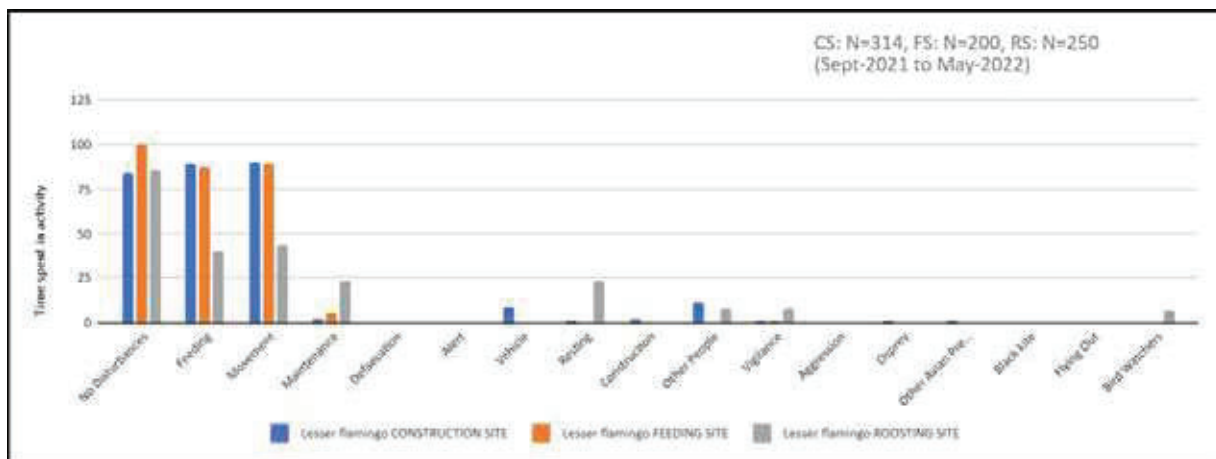


Fig. 16: Activity budget of Lesser flamingo at feeding, roosting and construction site

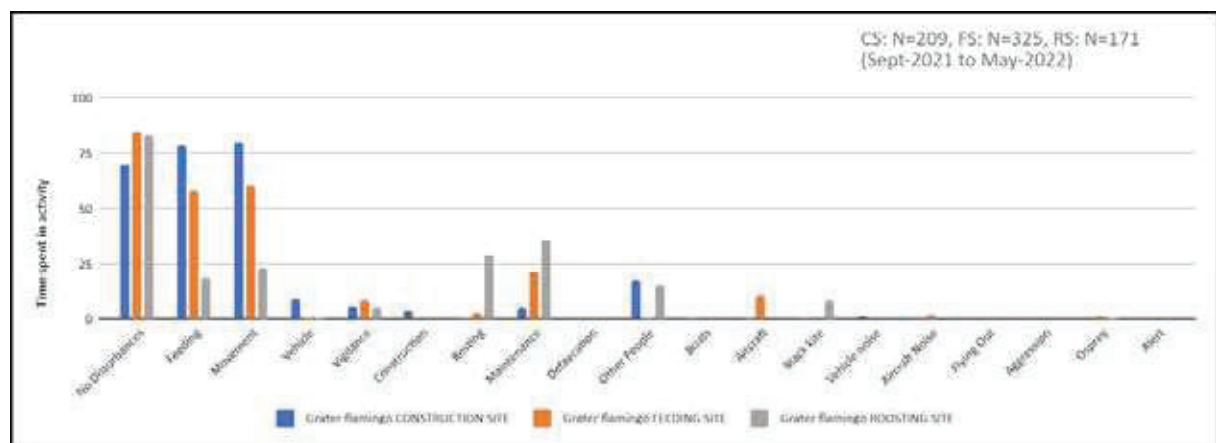


Fig. 17: Activity budget of Greater flamingo at feeding, roosting and construction site

The behavioural study of Greater flamingo *Phoenicopterus roseus* for season (September 2022 to May 2022) analysed (Fig. 17) separately for all the sites. Frequency of no disturbance was higher in feeding site (85.25%) followed by that in roosting site (83.88%). Movement was highest in construction site (80.09%) followed by feeding site (60.61%). Vehicles were highest in construction site (9.52%) followed by that in feeding site (0.46%). Vigilance was highest in feeding site (8.62%) followed construction site (5.88%). Resting activity was prominently higher in roosting site (29.38%) followed by feeding site (2.56%). Maintenance was highest in the roosting site (36.58%) followed by that in feeding site (21.06%).

Bird ringing

We ringed and flagged migratory shorebirds in 82 trapping sessions conducted from October 2021 to September 2022 at high tide roosting sites, viz, TSC, BPS saltpan, BPS mangrove, Ghatkopar Pumping Station and Mankhurd. In total, 8296 shorebirds (waders) were ringed and flagged. (Table 4 and 5).

Table 4: Species wise ringing details Oct 21–May 22

Sl. No.	Scientific Names	Common Names	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Total
1	<i>Himantopus himantopus</i>	Black winged stilt	0	0	0	0	0	3	1	4
2	<i>Limosa limosa</i>	Black-tailed godwit	5	0	0	6	5	5	0	21
3	<i>Calidris falcinellus</i>	Broad-billed sandpiper	17	75	19	47	14	36	16	224
4	<i>Gallinago gallinago</i>	Common snipe	0	0	1	1	0	0	0	2
5	<i>Anas crecca</i>	Common teal	2	0	0	2	0	0	0	4
6	<i>Tringa nebularia</i>	Common greenshank	9	0	1	7	2	19	4	42
7	<i>Tringa totanus</i>	Common redshank	179	43	96	209	147	149	17	840
8	<i>Actitis hypoleucos</i>	Common sandpiper	31	26	12	10	6	12	15	112
9	<i>Calidris ferruginea</i>	Curlew sandpiper	161	246	205	237	241	298	277	1665
10	<i>Calidris alpina</i>	Dunlin	26	107	65	63	70	23	2	356
11	<i>Numenius arquata</i>	Eurasian curlew	1	0	0	1	0	3	0	5
12	<i>Calidris tenuirostris</i>	Great knot	0	2	3	3	0	0	0	8
13	<i>Phoenicopterus roseus</i>	Greater flamingo	0	0	0	2	1	1	1	5
14	<i>Rostratula benghalensis</i>	Greater painted snipe	0	0	0	0	0	0	1	1
15	<i>Charadrius leschenaultii</i>	Greater sand plover	1	1	0	2	3	1	0	8
16	<i>Tringa ochropus</i>	Green sandpiper	1	0	0	0	0	1	0	2
17	<i>Pluvialis squatarola</i>	Grey plover	0	2	4	1	3	1	3	14
18	<i>Phalacrocorax fuscicollis</i>	Indian cormorant	1	0	0	0	2	0	0	3
19	<i>Charadrius alexandrinus</i>	Kentish plover	0	3	2	1	3	0	0	9
20	<i>Phoeniconaias minor</i>	Lesser flamingo	0	0	0	0	12	18	1	31
21	<i>Charadrius mongolus</i>	Lesser sand plover	236	509	537	271	413	220	191	2377
22	<i>Charadrius dubius</i>	Little ringed plover	1	1	2	0	0	0	0	4
23	<i>Calidris minuta</i>	Little stint	375	232	154	153	272	182	311	1679
24	<i>Sternula albifrons</i>	Little tern	0	0	60	18	26	25	36	165
25	<i>Tringa stagnatilis</i>	Marsh sandpiper	5	1	7	11	14	36	6	80
26	<i>Spatula clypeata</i>	Northern shoveler	0	2	1	0	0	0	0	3
27	<i>Pluvialis fulva</i>	Pacific golden plover	0	0	0	5	1	1	2	9

Table 4: Species wise ringing details Oct 21–May 22 (contd.)

Sl. No.	Scientific Names	Common Names	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Total
28	<i>Calidris canutus</i>	Red knot	0	0	0	1	0	0	0	1
29	<i>Vanellus indicus</i>	Red-wattled lapwing	2	0	0	0	0	0	0	2
30	<i>Areneria interpres</i>	Ruddy turnstone	2	1	0	0	1	4	3	11
31	<i>Calidris pugnax</i>	Ruff	1	0	0	0	0	0	0	1
32	<i>Sternula saundersi</i>	Saunders's tern	0	14	53	54	3	11	10	145
33	<i>Larus genei</i>	Slender billed gull	0	0	0	0	1	0	0	1
34	<i>Tringa erythropus</i>	Spotted redshank	0	0	0	0	0	0	1	1
35	<i>Calidris temminckii</i>	Temminck's stint	13	12	0	0	0	3	0	28
36	<i>Xenus cinereus</i>	Terek sandpiper	26	37	63	28	17	18	61	250
37	<i>Numenius phaeopus</i>	Whimbrel	0	1	0	0	0	2	0	3
38	<i>Chlidonias hybrida</i>	Whiskered tern	0	44	0	0	0	0	0	44
39	<i>Tringa glareola</i>	Wood sandpiper	10	3	14	11	7	34	57	136
	Total		1105	1362	1299	1144	1264	1106	1016	8296

Table 5: Species wise recapture detail

Sl. No.	Scientific Names	Common Names	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
1	<i>Calidris falcinellus</i>	Broad-billed sandpiper	0	2	0	3	1	1	4	11
2	<i>Tringa nebularia</i>	Common greenshank	0	0	0	0	0	1	0	1
3	<i>Tringa totanus</i>	Common redshank	47	1	10	57	45	79	14	253
4	<i>Actitis hypoleucos</i>	Common sandpiper	0	4	0	2	5	0	3	14
5	<i>Calidris ferruginea</i>	Curlew sandpiper	11	10	10	26	23	36	43	159
6	<i>Calidris alpina</i>	Dunlin	0	1	4	6	2	3	1	17
7	<i>Calidris tenuirostris</i>	Great knot	0	0	1	0	0	0	0	1
8	<i>Charadrius leschenaultii</i>	Greater sand plover	0	0	0	0	0	1	0	1
9	<i>Pluvialis squatarola</i>	Grey plover	0	0	0	1	0	0	0	1
10	<i>Charadrius mongolus</i>	Lesser sand plover	10	10	21	15	37	19	25	137
11	<i>Calidris minuta</i>	Little stint	16	2	3	3	7	3	10	44
12	<i>Sternula albifrons</i>	Little tern	0	0	0	0	1	1	1	3
13	<i>Tringa stagnatilis</i>	Marsh sandpiper	0	1	1	0	0	1	0	3
14	<i>Pluvialis fulva</i>	Pacific golden plover	0	0	0	0	0	0	1	1
15	<i>Areneria interpres</i>	Ruddy turnstone	0	0	1	0	0	0	0	1
16	<i>Sternula saundersi</i>	Saunders's tern	0	0	3	2		2	2	9

Table 5: Species wise recapture detail (contd.)

Sl. No.	Scientific Names	Common Names	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
17	<i>Xenus cinereus</i>	Terek sandpiper	2	7	5	4	8	6	24	56
18	<i>Tringa glareola</i>	Wood sandpiper	0	0	1	0	0	1	3	5
	Total		86	38	60	119	129	154	131	717

Table 6: Species wise resighting details from Oct 2021–Apr 2022

Sl. No.	Scientific Names	Common Names	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
1	<i>Himantopus himantopus</i>	Black winged stilt	0	0	0	0	0	1	0	1
2	<i>Limosa limosa</i>	Black-tailed godwit	0	1	1	0	7	24	10	43
3	<i>Calidris falcinellus</i>	Broad-billed sandpiper	0	1	4	0	0	3	0	8
4	<i>Tringa nebularia</i>	Common greenshank	0	9	5	1	1	1	1	18
5	<i>Tringa totanus</i>	Common redshank	30	38	40	6	35	58	8	215
6	<i>Actitis hypoleucos</i>	Common sandpiper	0	0	0	1	0	1	0	2
7	<i>Calidris ferruginea</i>	Curlew sandpiper	22	35	81	2	23	52	36	251
8	<i>Calidris alpina</i>	Dunlin	0	0	13	2	2	9	1	27
9	<i>Phoenicopterus roseus</i>	Greater flamingo	0	0	0	0	0	1	0	1
10	<i>Charadrius leschenaultii</i>	Greater sand plover	0	0	0	0	1	3	0	4
11	<i>Pluvialis squatarola</i>	Grey plover	1	1	1	0	3	10	9	25
12	<i>Phoeniconaias minor</i>	Lesser flamingo	0	0	0	0	3	0	0	3
13	<i>Charadrius mongolus</i>	Lesser sand plover	17	28	39	2	25	212	45	368
14	<i>Charadrius dubius</i>	Little ringed plover	0	0	0	2	0	0	0	2
15	<i>Calidris minuta</i>	Little stint	15	13	37	2	6	21	12	106
16	<i>Tringa stagnatilis</i>	Marsh sandpiper	0	1	5	1	16	26	0	49
17	<i>Pluvialis fulva</i>	Pacific golden plover	0	0	0	0	0	0	1	1
18	<i>Areneria interpres</i>	Ruddy turnstone	4	0	3	0	0	0	0	7
19	<i>Xenus cinereus</i>	Terek sandpiper	0	1	2	1	4	3	1	12
20	<i>Tringa glareola</i>	Wood sandpiper	0	0	2	2	1	0	0	5
	Total		89	128	233	22	127	425	124	1148

A total of 1148 birds were resighted throughout the seasons and maximum number of birds were resighted in March 2022 (425). We also received a few international resighting of birds tagged in our study area again in 2021–22. A Curlew sandpiper (2CF) and a Common redshank (1U9) were resighted in Central Mongolia and Altai regions of Russia, respectively.

Satellite telemetry

We tagged three Lesser flamingo and three greater flamingos with GSM GPS tags and one Black-tailed Godwit with GSM nano radio tag during the year 2021-22. Black-tailed Godwit named as BALA was the first wader species to be satellite tracked from India for its migratory path. The bird gave us crucial data on its stopover sites along its migratory path.

Bala travelled about 5000 km in 47 days (24th March to 11th June) to reach the breeding site(s) in Southwestern Siberia, Russia. It used several staging and stopover sites during northward migration and crossed six countries: Pakistan, Afghanistan, Turkmenistan, Uzbekistan, Kazakhstan and Tajikistan. In contrast, southward migration was quick — Bala took just five days (17th to 21st July) to cover a distance of 4200 km to reach Thane Creek through a few brief stops. (Fig. 18).

Five out of six tagged Flamingos moved to Gujrat in the month of July 2022 and since then they are not in network area and hence have not yet responded, we hope they will give us more data on their breeding sites once they are back in network. (Figs 19 and 20)

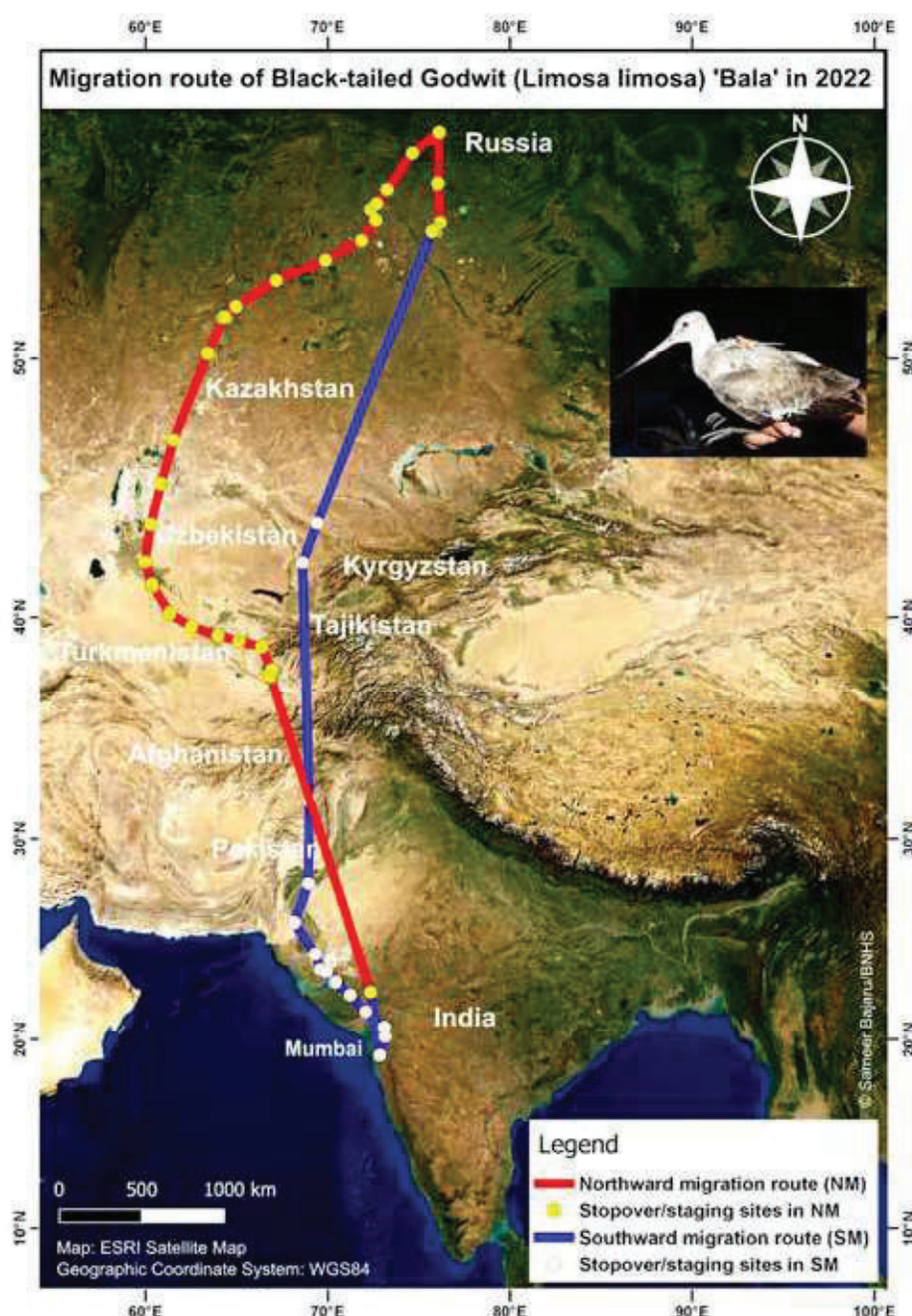
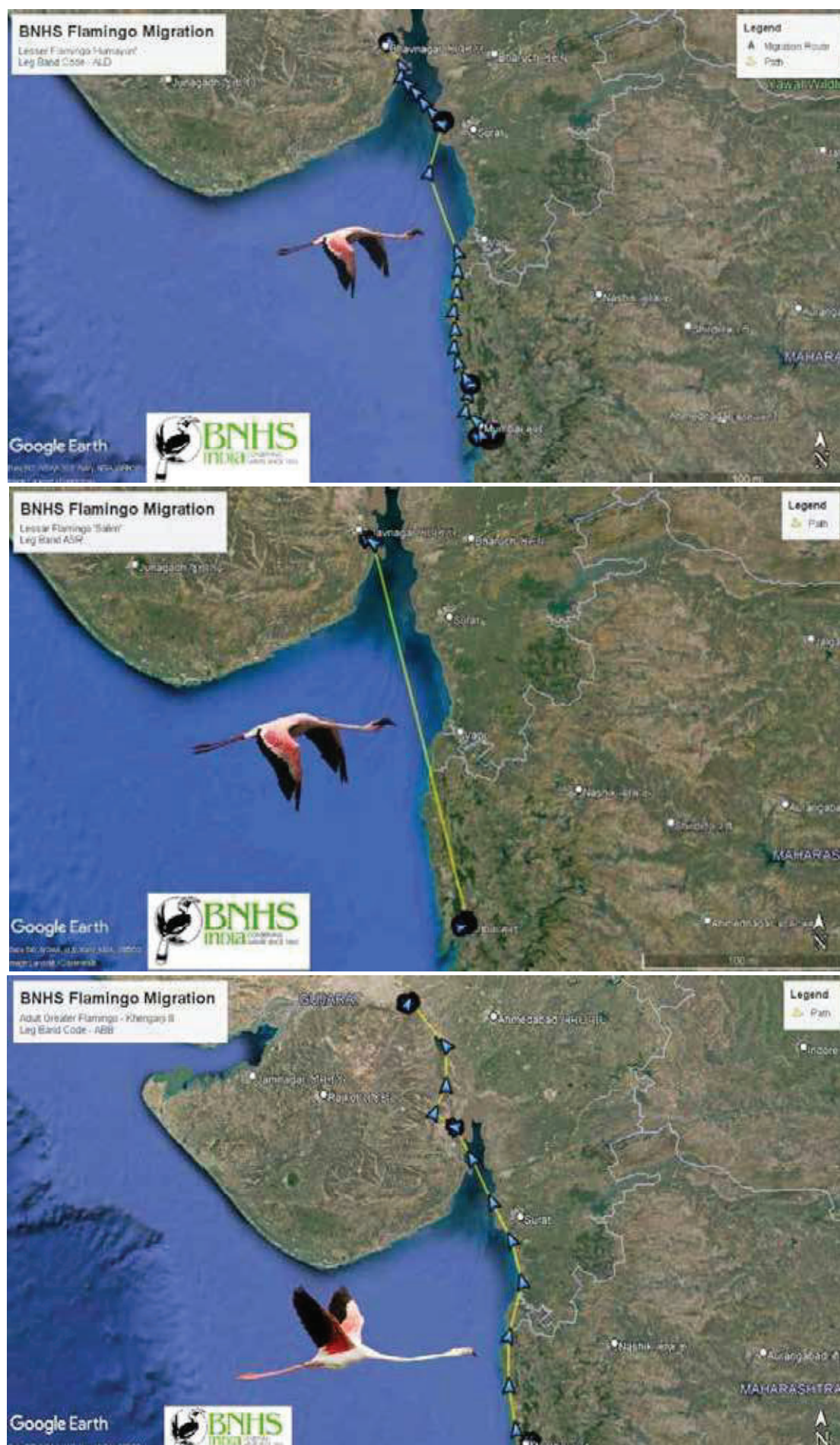


Fig. 18: Complete migration route of Black—tailed godwit "Bala"



Figs 19A and B: Sub-adult "Lester" and juvenile "McCann" Greater flamingo's migration route to Gujarat



Figs 20 A, B and C: Lesser flamingo "Humayun", "Salim" and "Khengarji III" migration route to Gujarat

BENTHOS STUDY

Summary

Thane creek was assessed during the period of October 2021-May 2022 with respect to the three marine groups, namely phytoplankton, zooplankton and macrobenthos. The macrobenthic fauna noted in mudflats of Thane Creek, Sewri and Nhava constitute key organisms such as Polychaetes, Gastropods, Bivalves, Anthozoa, Oligochaete, Phoronida, Brachyura, Nemertea, Nematoda etc. In this entire study, it was observed that the East bank ($58,030/\text{m}^3$) of Thane creek is comparatively depicting higher values of macrobenthic density than that of the West bank ($46,015.4/\text{m}^3$).

The highest abundance of macrobenthic community was observed during the Post-monsoon season in Cluster E II ($13,748.75/\text{m}^3$) on the East bank and Cluster W IV ($14,306.25/\text{m}^3$) on West bank. In the case of Pre-monsoon season, Cluster E III ($8168.35/\text{m}^3$) of the East bank and Cluster W IV ($3890.05/\text{m}^3$) of the West bank showed a higher macrobenthic abundance, respectively.

Mudflats at Sewri and Nhava were observed to demonstrate that Zone A was considerably more abundant than Zone B and Zone C. The macrobenthic fauna noted in Wetlands consists of Polychaete, Onchidium, Amphipoda, Shrimp, Gastropods, Bivalves, Oligochaete, Lucifer, Fish larvae, Insect larvae etc. It was observed that Belpada ($453.33/\text{m}^3$) exhibited maximum macrobenthic abundance, followed by BPS ($253.9/\text{m}^3$), NRI ($102.78/\text{m}^3$) and TSC ($59.10/\text{m}^3$).

The total group diversity in the case of Zooplankton was 18 groups, and the most dominant groups were Copepoda, Acetous sp., Medusae etc. Overall, 19 Phytoplankton species were noted. The most dominant species were Skeletonema costatum, Odontella sp., Navicula sp. etc.

Methodology:

To study the macrobenthic faunal distribution along the Thane Creek, the mudflats have been marked with flags at an interval of 1 km and divided into 40 such transects. Total 37 transects were sampled in Thane Creek from October-2021 to May-2022. Upstream transects (6 and 7) were omitted as previous observations have yielded negligible or no faunal counts. Along with this, two more transects, Sewri and Nhava were sampled for macrobenthic studies from October 2021 to May 2022. Due to some ground-level unavoidable circumstances, macrobenthos samples were not collected from Nhava since March 2022. Overall, two seasons namely, the Post-monsoon consists of months (October 2021, November 2021, December 2021, January 2022), whereas Pre-monsoon consists of only February and March 2022 were considered while analysing the datasets. The microscopic analysis for the remaining two months is in process.

During the present study duration, four wetlands – NRI, TSC, Belpada, BPS were sampled from October 2021 to May 2022. The sediment samples were collected using a shovel, due to the hard substratum.

Along with macrobenthos sampling, plankton (Phytoplankton and Zooplankton) samples were collected monthly from October 2021 to May 2022 by hauling plankton nets as per the standardized procedure. The sampling period has been divided and represented into four seasons, Phase shift I (October-2021), Winter (November-2021, December-2021, January-2022), Phase shift II (February-2022) and Summer (March-2022, April-2022, May 2022).

For better representation in the report, Creek was divided into two banks- East and West Bank. Sampled transects are combined into eight clusters (E I, E II, E III, E IV, E V, EW I, W I, W II, W III and W IV) to study the macrobenthic distribution pattern. (Table 7).

Table 7: Grouping of transects into clusters for data representation

Bank	Transects
East Bank: E I	1,2,3,4
E II	38, 39, 40
E III	35, 36, 37
E IV	31, 32, 33, 34
E V	27,28,29,30
East West Bank: EW I	5,8,9,10
West Bank: W I	11,12,13
W II	14, 15, 16, 17
W III	18, 19, 20, 21
W IV	22, 23, 24, 25

Observations:

Thane Creek

Overall macrobenthic density and biomass recorded from Thane creek in present studies was ($104171.67/\text{m}^3$, $1508.78\text{g}/\text{m}^3$). During the entire study period, it was observed that the total macrobenthic density and biomass of East bank was ($58030.38/\text{m}^3$, $961.78\text{g}/\text{m}^3$), East-West bank was ($1602.46/\text{m}^3$, $0.389\text{g}/\text{m}^3$) and West bank exhibited ($44541.82/\text{m}^3$, $546.52\text{g}/\text{m}^3$). 20 benthic groups were observed along the Thane Creek, Sewri, Nhava and wetlands. Polychaete, Oligochaete, Bivalve, Gastropod, Phoronida and Anthozoa were the major contributors to the macrobenthic composition.

East Bank

In the entire study period, the Post-monsoon season exhibited maximum macrobenthic density and biomass along the clusters EI ($5715.01/\text{m}^3$, $117.71\text{g}/\text{m}^3$), EII ($13748.75/\text{m}^3$, $203.41\text{g}/\text{m}^3$), EIII ($8607.09/\text{m}^3$, $527.00\text{g}/\text{m}^3$) EIV ($6404.06/\text{m}^3$, $136.56\text{g}/\text{m}^3$) and EV ($1928.45/\text{m}^3$, $4.31\text{g}/\text{m}^3$). The Pre-monsoon season exhibited the least density and biomass at all the clusters: EI ($2423.14/\text{m}^3$, $0.97\text{g}/\text{m}^3$), EII ($5197.00/\text{m}^3$, $12.07\text{g}/\text{m}^3$), EIII ($8168.00/\text{m}^3$, $12.46\text{g}/\text{m}^3$) EIV ($4405.00/\text{m}^3$, $42.98\text{g}/\text{m}^3$) and EV ($1433.57/\text{m}^3$, $5.84\text{g}/\text{m}^3$). The highest values of density were observed during Post-monsoon season for cluster EII ($13748.75/\text{m}^3$), whereas least values were observed during Pre-monsoon season for cluster EV ($1433.57/\text{m}^3$). The highest biomass was observed in cluster E III during Post-monsoon season ($527.00\text{g}/\text{m}^3$) Lowest biomass was noted in E I during Pre-monsoon season ($0.97\text{g}/\text{m}^3$). Polychaete was the most dominating group both density and biomass wise along all the clusters followed by Bivalve, Gastropod Nematode, Phoronida and Brachyura during Post-monsoon.

E I (Fig.21.1-21.4)

There has been a significant decrease in macrobenthic density and biomass from Post-monsoon season ($5715.01/\text{m}^3$, $117.71\text{g}/\text{m}^3$) to Pre-monsoon season ($2423.14/\text{m}^3$, $0.97\text{g}/\text{m}^3$). Along the cluster, 5 invertebrate phyla were recorded. It was observed that the overall biomass of macrobenthos was higher in the Post-monsoon season ($9.23\text{g}/\text{m}^3$) than that of the Pre-monsoon season ($0.32\text{g}/\text{m}^3$).



Fig. 21.1: Vertical stratification of macro-benthic density /m³ in the intertidal mudflats of EI cluster of Thane creek during the study period 2021–22

Vertical stratification

The upper stratum 0-2cm depicts the maximum Polychaete density (4592.7/m³) followed by Oligochaetes (880.20/m³) during the Post-monsoon season.

Brachyura was seen only during Post-monsoon season occupying the upper 0-2 cm stratum. During Post-monsoon season, the highest group diversity was noted within the upper stratum 0-2cm (8 No). Anthozoans were observed during Post-monsoon season up to the upper 8cm. Polychaetes were present within the entire vertical column of 15 cm. Phoronida, Brachyura, Anthozoa, Nemertea were completely absent during the Pre-monsoon months.

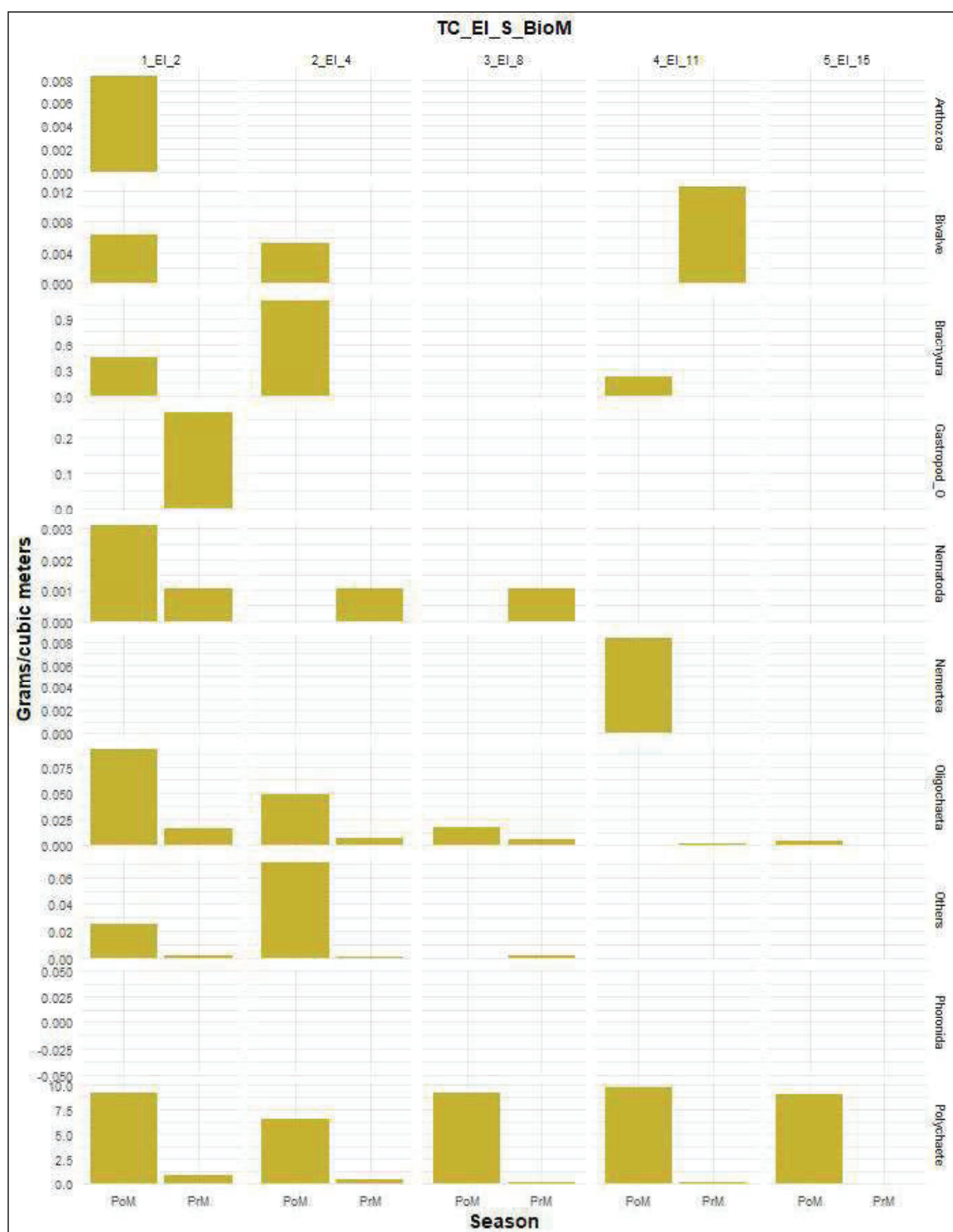


Fig. 21.2: Vertical stratification of macro-benthic biomass g/m³ in the intertidal mudflats of EI cluster of Thane creek during the study period 2021-22

In the Pre-monsoon season, Crustacean larvae contribute the least to overall biomass (0.02g/m³), followed by Oligochaetes (0.03g/m³), while in the Post-monsoon season, Polychaete contributes the most (26.27g/m³), followed by Brachyura (1.06g/m³).

Polychaete (0.26g/m³) shows the highest biomass followed by Gastropoda (0.05g/m³) and Oligochaete (0.01g/m³). It has been observed that Post-monsoon shows significantly higher biomass (9.17/m³) than that of the Pre-monsoon season across all the strata (0.32/m³).



Fig. 21.3: Zonal variation of macrobenthic density/ m³ in the intertidal mudflats of EI cluster of Thane creek during 2021–22

Intertidal zonation:

During the Post-monsoon season, Zone C had exhibited the highest macrobenthic density (2574.06/m³) followed by Zone A (1899.07/m³) and Zone B (1241.88/m³). During the Pre-monsoon season, Zone C had exhibited the highest macrobenthic density (1306.88/m³) followed by Zone B (762.51/m³) and Zone A (353.76/m³). 10 macrobenthic groups were observed during Post-monsoon season while 6 macrobenthic groups were observed in Pre-monsoon season. Polychaete and Oligochaete were observed across all the Zones during both seasons. The maximum contribution to the overall biomass was from Zone A (16.02g/m³) followed by Zone C (8.72 g/m³) and Zone B (2.97 g/m³) during the Post-Monsoon season. Zone C (0.39g/m³) showed the highest biomass followed by Zone A (8.72g/m³) and Zone B (2.97g/m³) during the Pre-monsoon season.

E II (Fig.22.1-22.4)

Macrobenthic density and biomass have shown a significant decrease from Post-monsoon season (2869.03/m³, 67.80g/m³) to Pre-monsoon season (2722.03/m³, 4.02g/m³) season. There was a decline in the macrobenthic diversity from Post-monsoon season (10 No) to Pre-monsoon season (5 No).

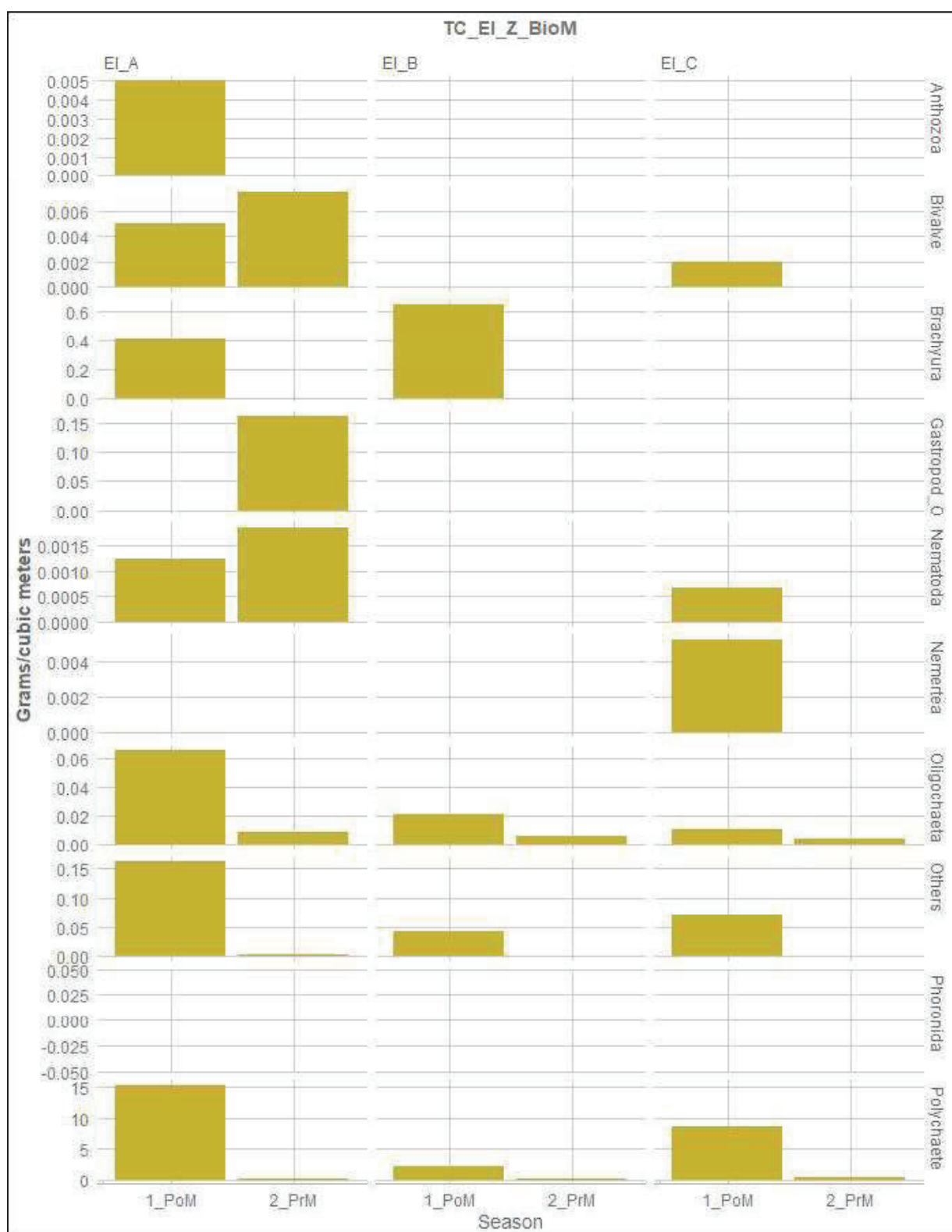


Fig. 21.4: Zonal variation of macrobenthic Biomass g/m³ in the intertidal mudflats of EI cluster of Thane creek during the study period 2021–22

Vertical stratification:

Macrobenthic density has declined vertically from upper stratum 0-2cm to lower stratum 11-15 cm in both the seasons. Polychaete (17039.16/ m³, 164.56g/ m³) has contributed maximum to the overall macrobenthic density and biomass. Polychaeta, Oligochaeta, Bivalve and Gastropod were observed in all strata during both seasons.

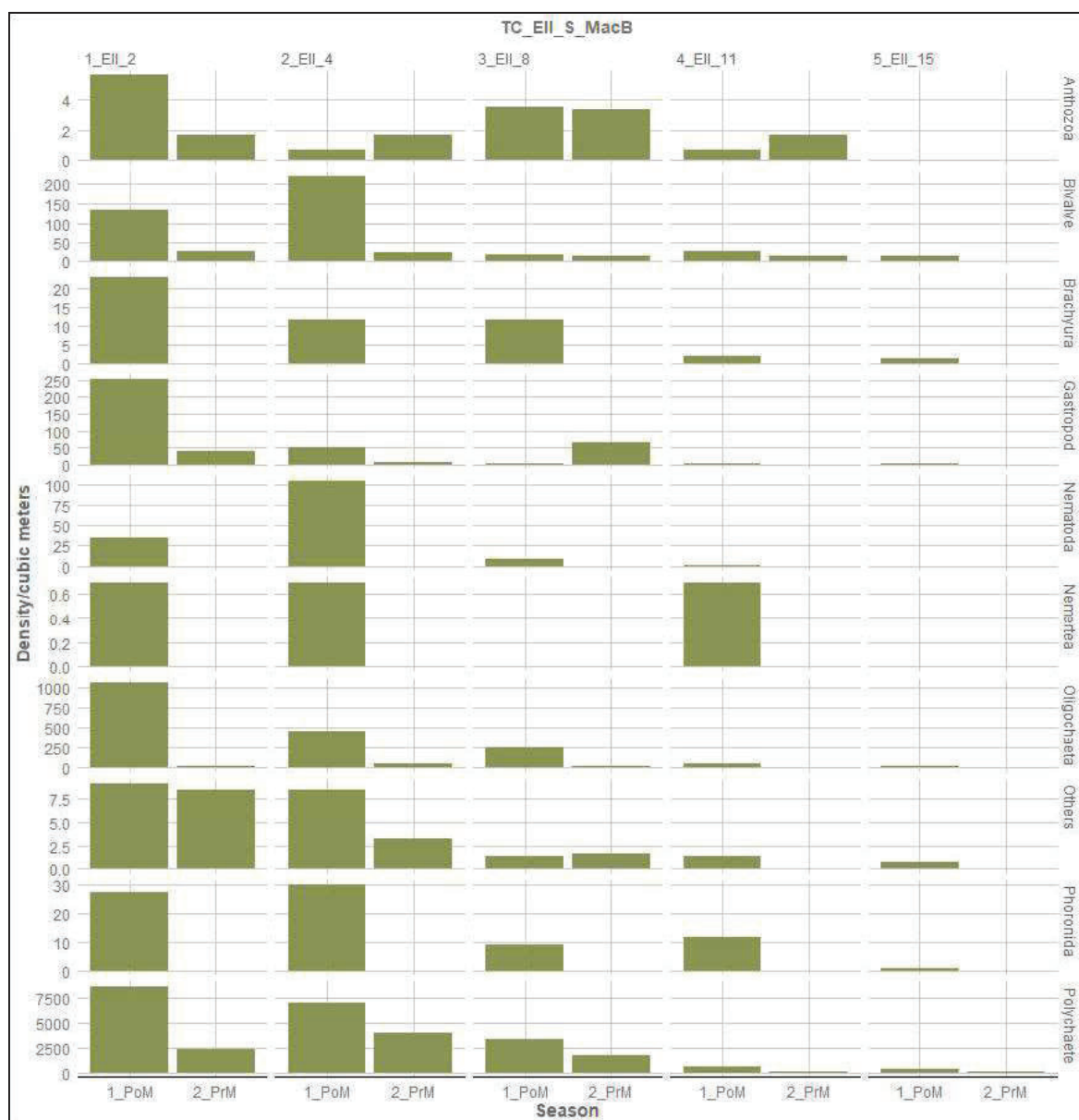


Fig. 22.1: Vertical stratification of macrobenthic density/m³ in the intertidal mudflats of EII cluster of Thane creek during the study period 2021–22

Polychaete (51.99g/m³) shows higher biomass followed by Bivalve (9.62g/m³), Gastropod (3.74g/m³), Brachyura (1.10g/m³), Phoronida (0.42g/m³) during the Post-monsoon season. During Pre-monsoon season, the higher biomass was shown by Polychaete (2.86g/m³) followed by Bivalve (.46g/m³), Gastropod (0.44g/m³), Anthozoa (0.26 g/m³).

Intertidal zonation:

Maximum contribution towards overall macrobenthic density was observed from Zone B (6897.41/m³) and the least density was observed from Zone C (5676.74/m³) during both seasons. Polychaete density have increased from Zone B (4568.33/m³) to Zone A (3938.33/m³) in Post-monsoon season. During Pre-monsoon season, Zone C (1788/m³) exhibited highest density of Polychaete followed by Zone B (1675/m³) and Zone A (1547/m³). During Post-monsoon season, Polychaete (155.98 g/m³) had maximum contribution to overall biomass followed by Bivalves (28.76 g/m³), Gastropoda (11.13 g/m³). During the Pre-monsoon season, Polychaete biomass (8.58 g/m³) was highest followed by Bivalves (1.37 g/m³) and Gastropoda, (1.31 g/m³).



Fig. 22.2: Vertical stratification of macro-benthic biomass g/m³ in the intertidal mudflats of EII cluster of Thane creek during the study period 2021–22

Zone A (109.69g/m³) exhibits the highest biomass followed by Zone B (66.80 g/m³) and Zone C (26.91 g/m³) in Post-monsoon season while in Pre-monsoon season, Zone C (5.86g/m³) shows higher biomass followed by Zone A (3.84g/m³) and Zone B (2.37g/m³). During the Pre-monsoon season, Phoronid, Brachyura, Nemertea and Nematode were totally absent across all zones.

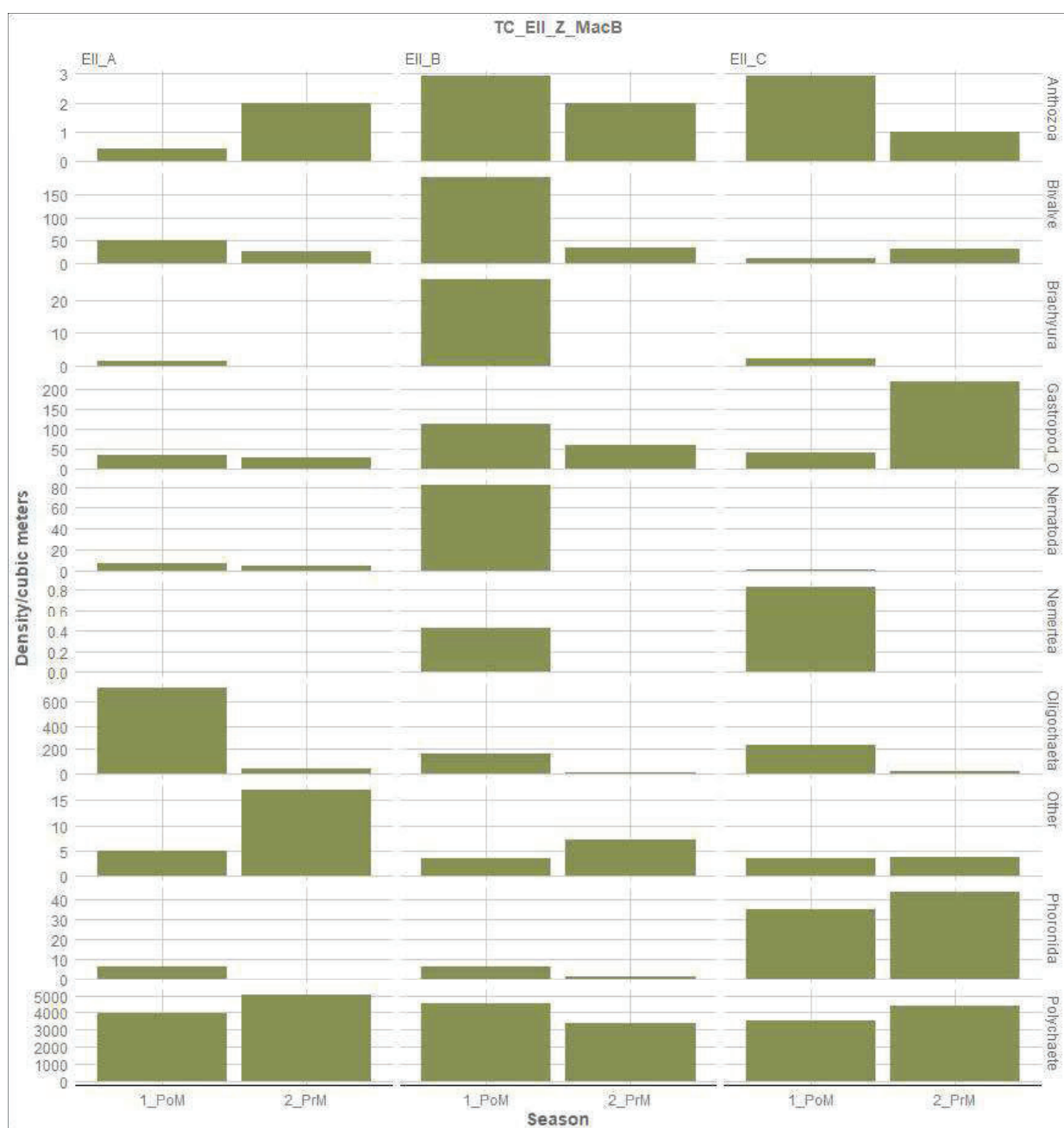


Fig. 22.3: Zonal variation of macrobenthic density/m³ in the intertidal mudflats of E II cluster of Thane creek during 2021–22

E III (Fig.23.1-23.4)

Macrobenthic density had shown a slight decline from Post-monsoon season (8607.08/ m³) to Pre-monsoon season (8168.35/ m³). Overall, 10 macrobenthic groups were observed along this cluster. Polychaete, Gastropod, Bivalve, Oligochaete and Phoronida were found in both seasons.

Vertical Stratification

Uppermost stratum 0-2 cm shows the highest density (10236.11/m³) than that of other strata. Macrobenthic density declined vertically from the upper stratum to lower stratum in both seasons. Polychaete shows a declining trend from upper most stratum 0-2 cm to lower most stratum 11-15 cm in both seasons. Nematodes were observed only in the upper stratum 0-2 cm during Pre-monsoon season. Polychaete, Phoronida, Oligochaete, Gastropod were observed in all strata during both seasons. Brachyura, Anthozoa, Nemertea was completely absent in Pre-monsoon season.

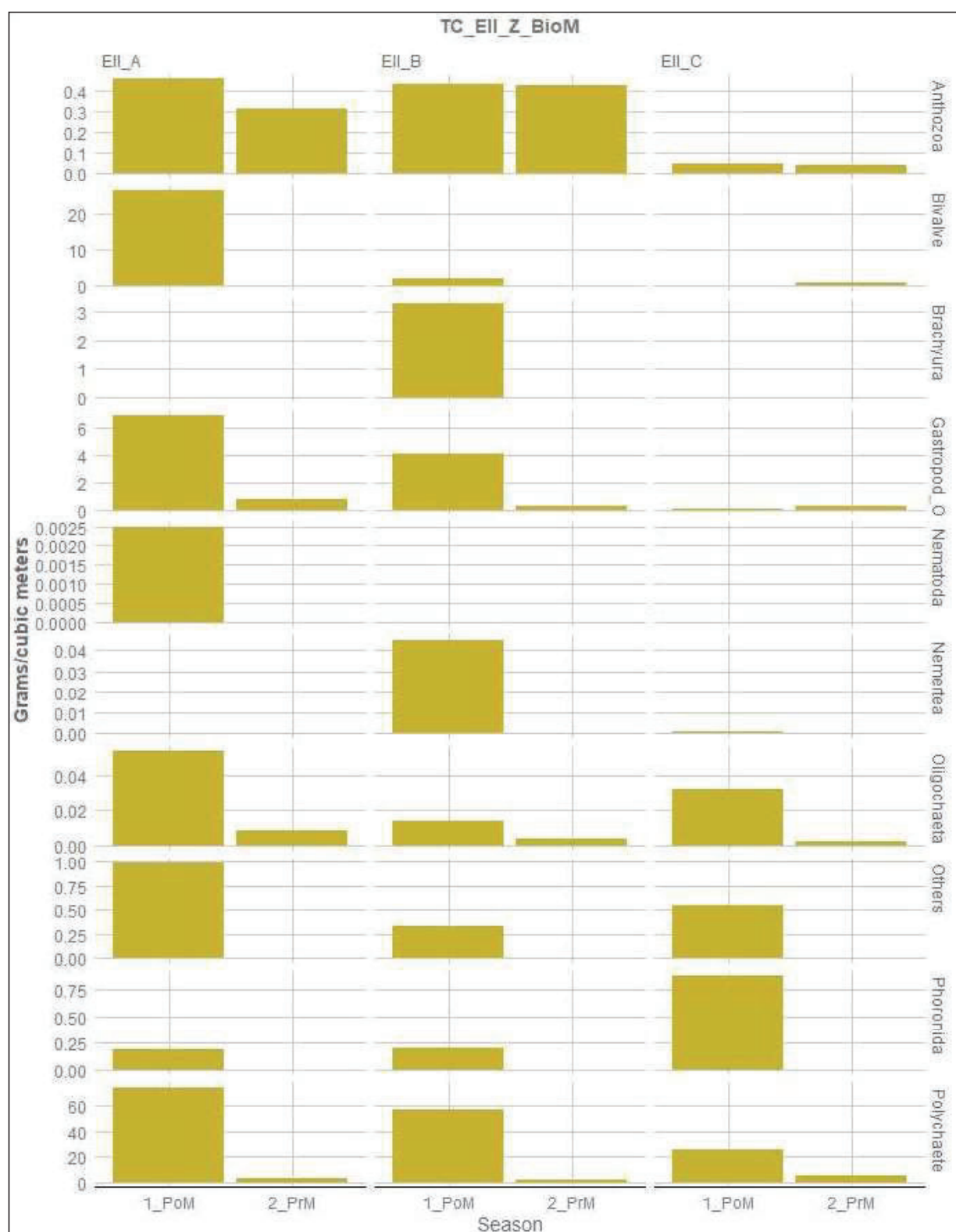


Fig. 22.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of EII cluster of Thane creek during the study period 2021-22

Maximum biomass was noted from the upper stratum 0-2cm during both the seasons (573.89g/m³) and the least biomass was observed in the stratum 8-11 cm (14.66g/ m³).

Intertidal zonation

Maximum macrobenthic density was observed along Zone A during Pre-monsoon season (3551.25/ m³) and Zone B in Post-monsoon season (3133.75/m³). The least density was recorded along Zone B

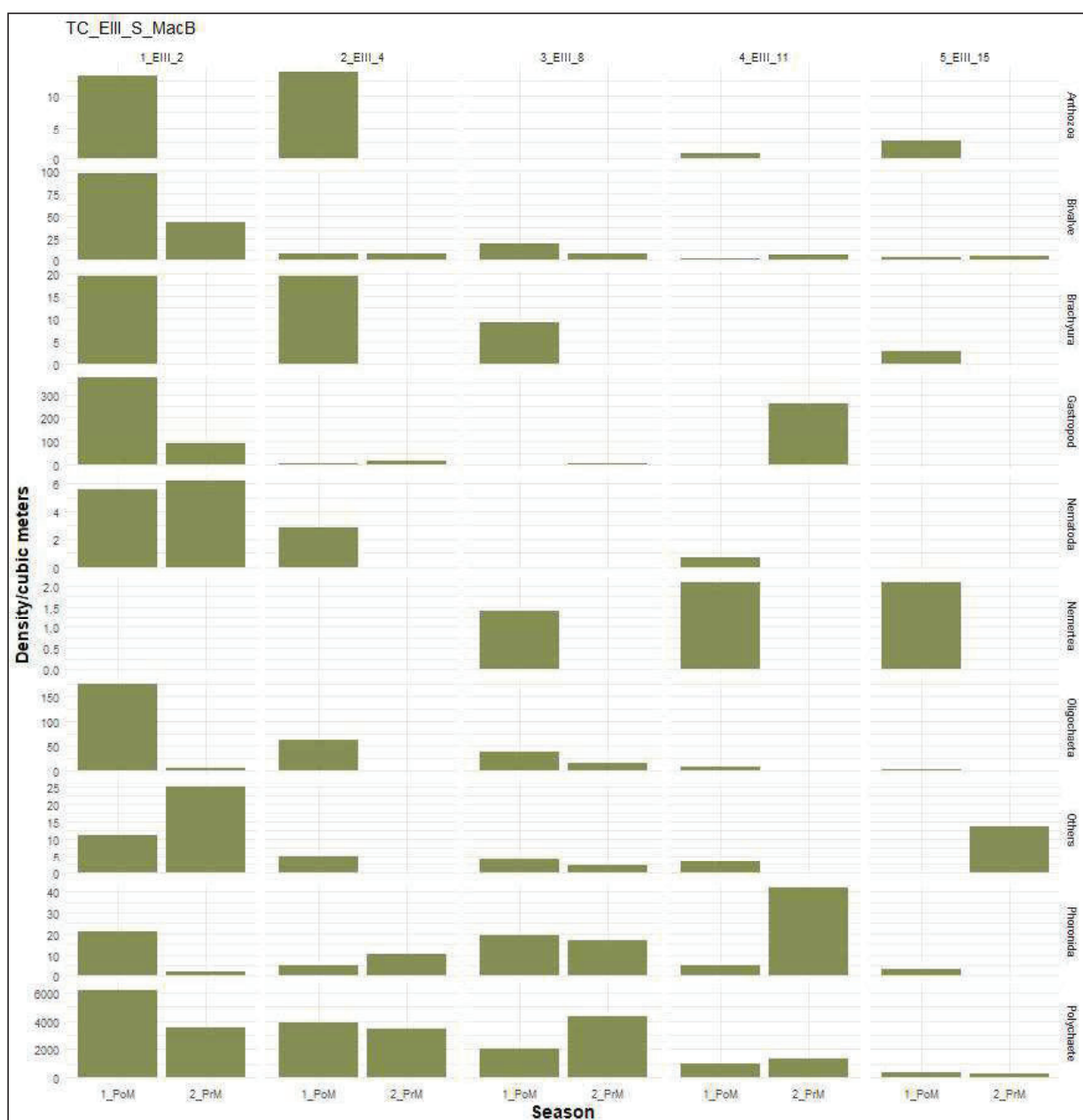


Fig. 23.1: Vertical stratification of macrobenthic density/ m^3 in the intertidal mudflats of EIII cluster of Thane creek during the study period 2021–22

during Pre-monsoon season ($1750/\text{m}^3$) followed by Zone C in Post-monsoon season ($2544.59/\text{m}^3$). The maximum contribution to the overall biomass was shown by Zone C ($377.42\text{g}/\text{m}^3$) followed by Zone A ($91.79\text{g}/\text{m}^3$) and Zone B ($57.79\text{g}/\text{m}^3$) during the Post-monsoon season. Polychaete ($15832.94/\text{m}^3$) has contributed maximum to the overall macrobenthic density across all zones during both seasons, followed by Gastropod ($464.88/\text{m}^3$), Oligochaete ($186.85/\text{m}^3$).

E IV (Fig.24.1-24.4)

Macrobenthic density and biomass has decreased from Post-monsoon season ($2134.69/\text{m}^3$, $45.52\text{g}/\text{m}^3$) to Pre-monsoon season ($1468.33/\text{m}^3$, $14.33\text{g}/\text{m}^3$). During the study period, 10 macrobenthic groups were recorded from the cluster. During both the seasons, the faunal diversity was more in Zone B as compared to the other zones. Brachyura, Oligochaete, and Sipuncula were observed in Post-monsoon season while they were completely absent in Pre-monsoon season. Gastropods exhibit a higher contribution to overall biomass followed by Bivalve and Polychaete during the Post-monsoon season.

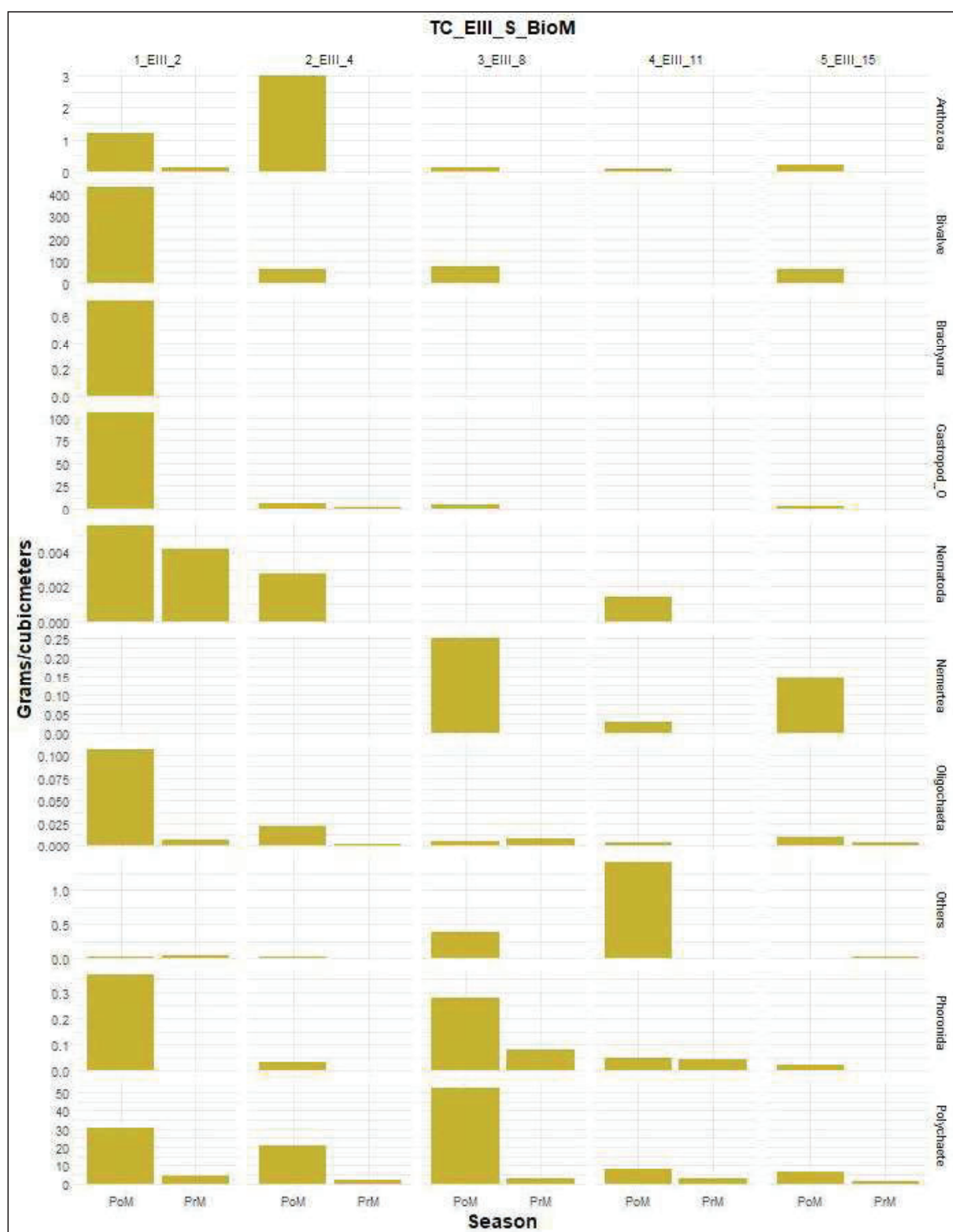


Fig. 23.2: Vertical stratification of macro-benthic biomass g/m³ in the intertidal mudflats of EIII cluster of Thane creek during the study period 2021–22

Vertical stratification

Macro-benthic density showed a decline from upper stratum 0-2cm to lower 11-15cm stratum during both the seasons. Nematode was observed only in upper stratum 0-2 cm during both the seasons. Oligochaete was observed in all strata of Post-monsoon season while in Pre-monsoon season, it was present in all strata except lower strata 8-15 cm. Maximum biomass was noted from stratum 8-11cm (102.53g/m³) followed by upper stratum 0-2 cm (53.11g/m³), lower stratum 11-15 cm (46.07g/m³), 2-4



Fig. 23.3: Zonal variation of macrobenthic density/m³ in the intertidal mudflats of EIII cluster of Thane creek during 2021–22

cm(24.26g/m³) and 4-8 cm(16.01g/m³) in Post-monsoon season while in Pre-monsoon season upper stratum 0-2cm exhibited highest biomass.

Polychaete showed maximum contribution to overall density in upper stratum 0-2 cm (7680.56/ m³) followed by strata 2-4 cm (4276.57/m³) and stratum 4-8 cm (2727.25/ m³). Brachyura (10.93/ m³) showed the least contribution to the overall density followed by Nematoda (11.97/ m³).

Intertidal Zonation

Polychaete had contributed maximum to the overall macrobenthic density (9926.13/ m³). Macro benthic density has declined from Zone B (2248.44/m³) during Post-monsoon season followed by Zone C (2141.25/m³) and Zone A (2014.37/m³). During Pre-monsoon season, Zone B (2106.6/ m³) exhibited

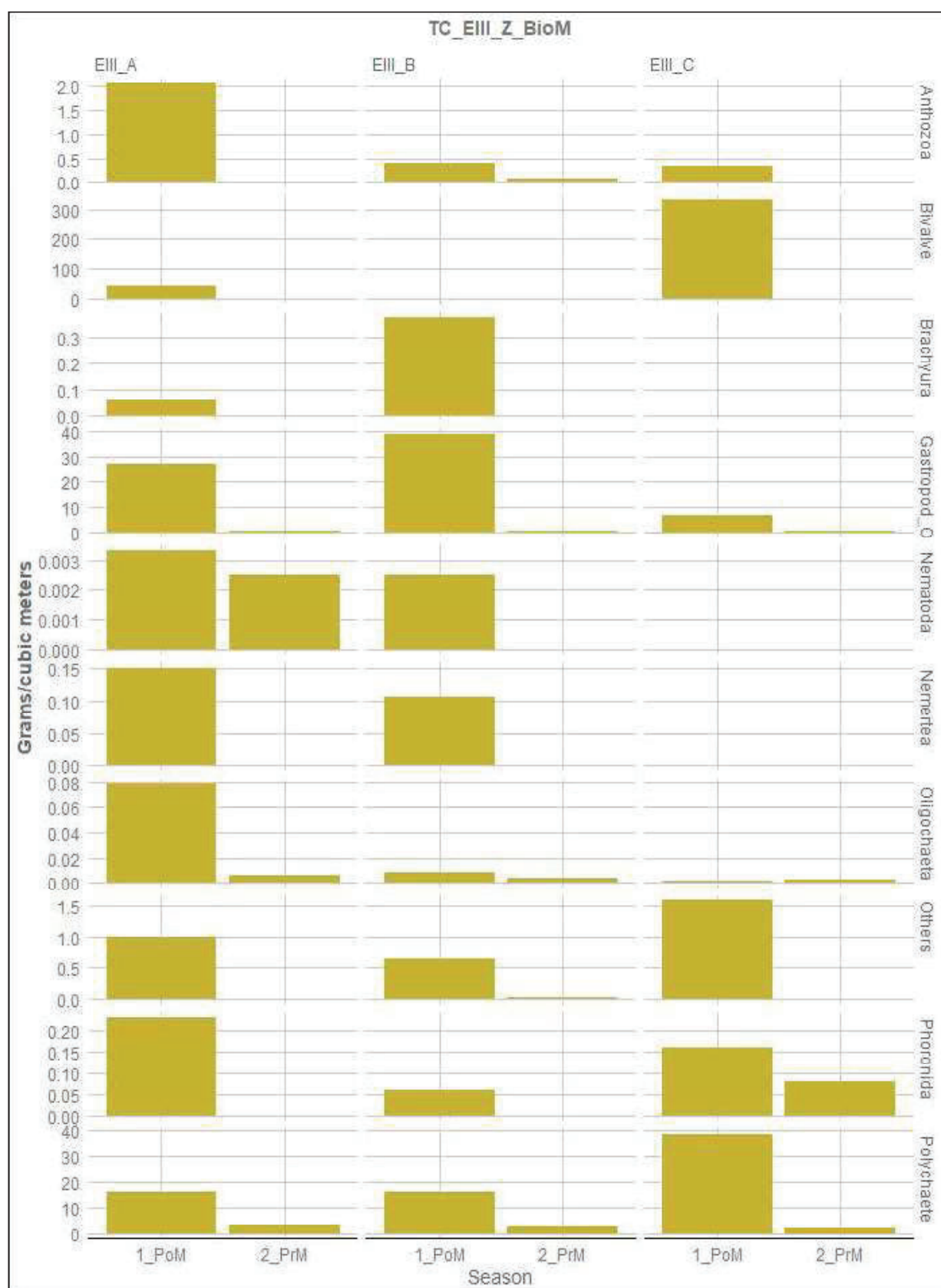


Fig. 23.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of EIII cluster of Thane creek during the study period 2021–22

maximum density followed by Zone A (1329.17/m³) and Zone C (969.17/m³). Polychaete, Gastropoda, Bivalve, Nemertea, Oligochaeta and Phoronida were observed in all the zones during both the seasons. Zone A (116.58g/ m³) showed maximum contribution to the overall biomass during both the seasons, followed by Zone B (41.6 g/m³) and Zone C (21.33g/m³).



Fig. 24.1: Vertical stratification of macrobenthic density/m³ in the intertidal mudflats of EIV cluster of Thane creek during the study period 2021–22

E V (Fig.25.1-25.4)

Macrobenthic density has shown a decrease in biomass from Post-monsoon season (642.82/m³) to Pre-monsoon (477.86/m³). During the study period, 10 faunal groups were recorded from the cluster. Faunal diversity has decreased from Post-monsoon (10 No.) to Pre-monsoon (9 No.). Nematode was completely absent during Pre-monsoon.

Vertical stratification

Macrobenthic density has declined from upper 0-2cm stratum to lower 11-15cm stratum during Post-monsoon season. Stratum 8-11 cm exhibited maximum macrobenthic density (805.95/m³) followed by stratum 2-4 cm (582.15/m³) and 11-15 cm (405.95/m³) in Pre-monsoon season. It was observed that lower stratum 11-15 cm showed the least contribution to the biomass whereas the upper stratum 0-2 cm showed highest biomass during Post-monsoon. The upper stratum 2-4 cm contributed the

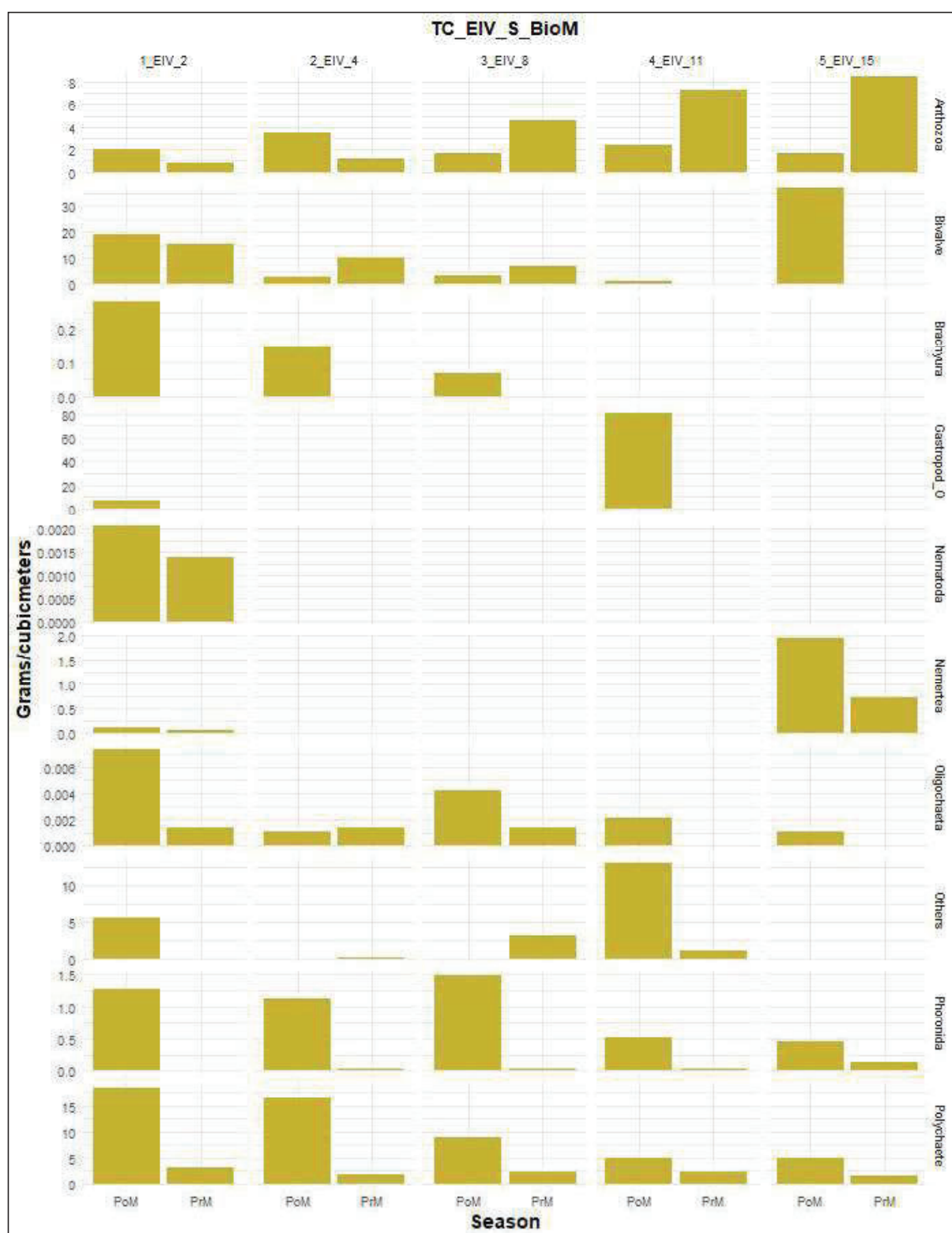


Fig. 24.2: Vertical stratification of macrobenthic biomass g/m^3 in the intertidal mudflats of EIV cluster of Thane creek during the study period 2021–22

least to the overall biomass, whereas the lower stratum 11-15 cm contributed the most during Pre-monsoon.

Intertidal Zonation

Macrobenthic density has declined from Zone A ($816.26/\text{m}^3$) followed by Zone C ($608.75/\text{m}^3$) and Zone B ($503.44/\text{m}^3$) in Post-monsoon season. Macrobenthic density has declined from Zone A ($595.00/$

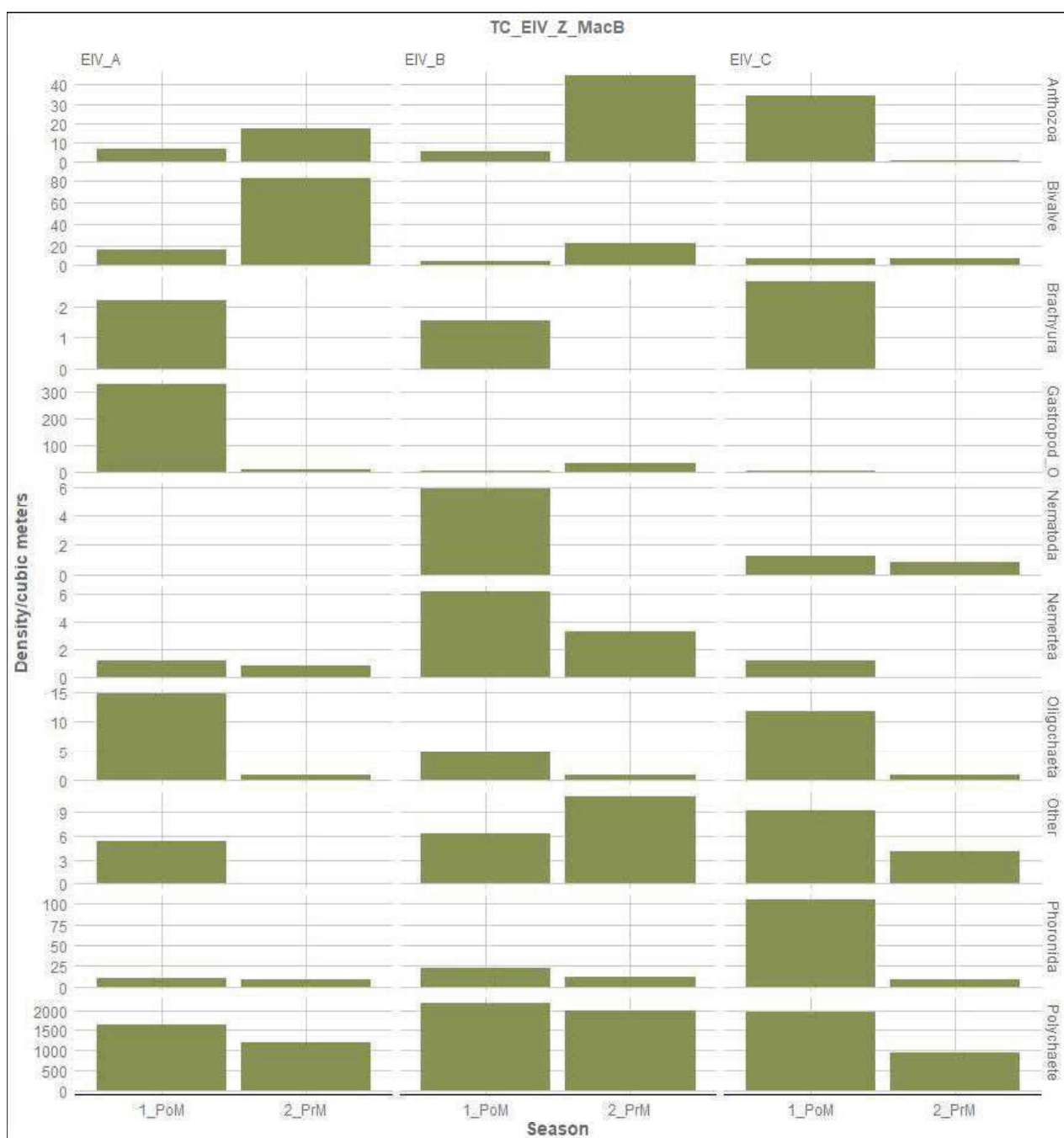


Fig. 24.3: Zonal variation of macrobenthic density/m³ in the intertidal mudflats of E IV cluster of Thane creek during 2021–22

m³) followed by Zone B (565.71/m³) and Zone C (272.86/m³) in Pre-monsoon season. Zone A (1.59g/m³) had exhibited highest biomass during Post-monsoon and Zone B (3.40g/m³) during Pre-monsoon. Zone A had exhibited maximum group diversity throughout the season. Polychaete, Gastropod, Bivalve, Brachyura, Anthozoa, Oligochaete and Phoronida were observed in all the seasons, while Nematode was completely absent during the Pre-monsoon. Bivalve was observed only in Zone A during Pre-monsoon season.

East-West Bank (EW I - Fig.26.1-26.4)

Over the course of the study period, the maximum macrobenthic density and biomass along EW I (1562.27/m³, avg. 0.129g/m³), was noted during the Post-monsoon season, whereas Pre-monsoon season showed comparatively less macrobenthic density and biomass (40.23/m³; 0.003g/m³).

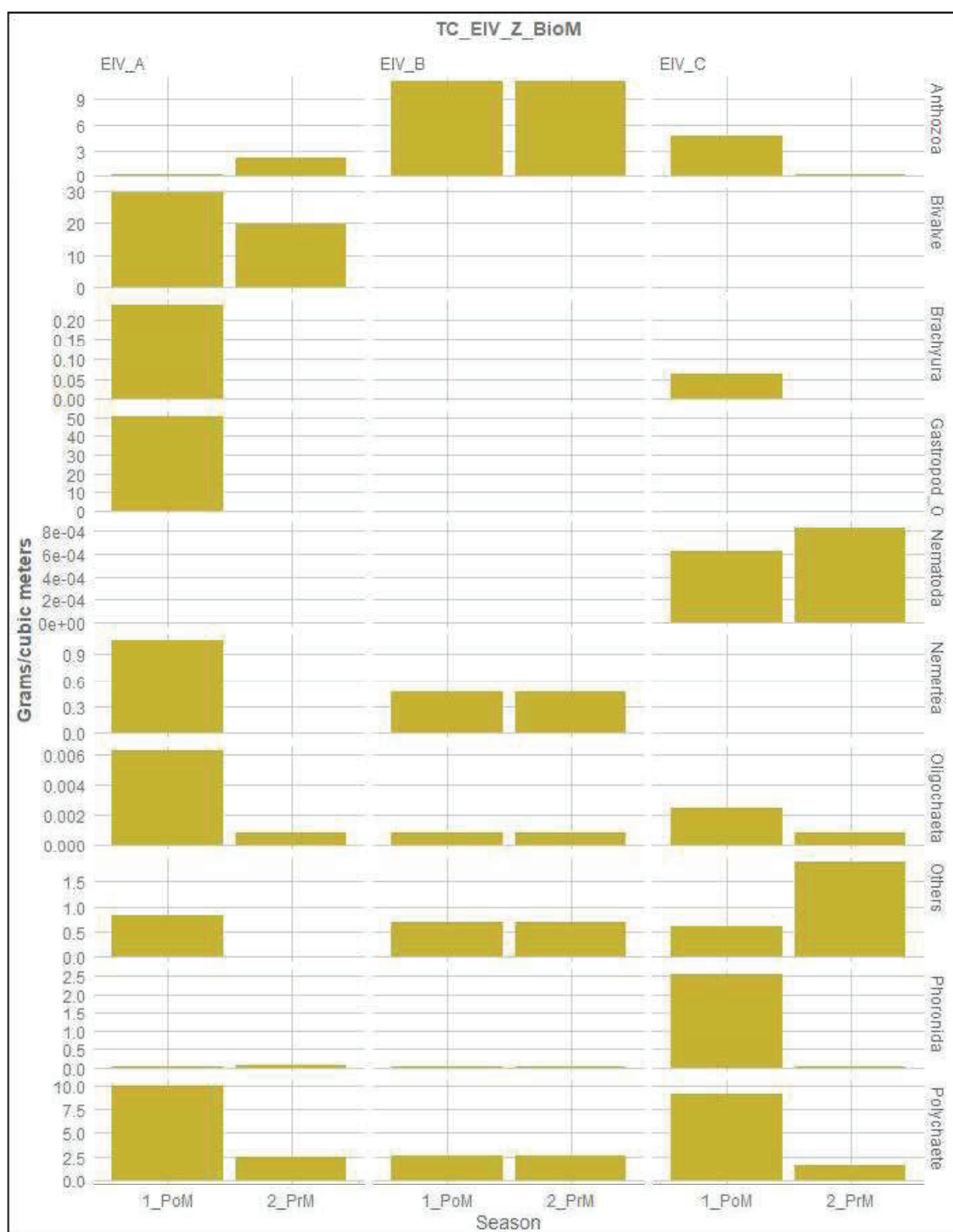


Fig. 24.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of E IV cluster of Thane creek during the study period 2021–22

Vertical stratification

Polychaetes were present within all the stratum, with higher density in the upper 0-2 cm stratum during Post-monsoon season (1654.3/ m³). Bivalve showed a higher density in the lower stratum 8-11 cm during Post-monsoon season (10.62/ m³). Phoronida was present in the upper 0-2 cm stratum. Brachyura was only present in stratum upper 2cm and 4 - 8 cm during Post-monsoon season. Oligochaetes



Fig. 25.1: Zonal variation of macrobenthic density /m³ in the intertidal mudflats of EV cluster of Thane creek during 2021–22

showed a gradual decrease from upper stratum up to 11 cm and completely absent in the lowest 11–15 cm in Post-monsoon season. Stratum 0–2 cm (1821.8/ m³) showed higher group diversity (6 no) and abundance followed by stratum 4–8 cm (583.69/ m³) and stratum 2–4 cm (508.09/ m³). Lower Stratum 11–15 cm showed no group diversity and density except for Polychaete which was present in smaller amount. Anthozoa and Nemertea were completely absent within the entire 15cm column during both seasons.

The biomass of Polychaete was observed to be the highest during Post-monsoon season in stratum 15 cm (0.454545g/ m³). Biomass of Oligochaete shows a decreasing trend from the upper stratum (0.02g/ m³) to lower (up to 15 cm (0.001g/ m³), across both the seasons.

Intertidal zonation

There was a high density of Polychaete, during Post-monsoon season in Zone C (1148.25/ m³). Zone C during Post-monsoon season showed a higher group diversity (9 no) compared to other zones across

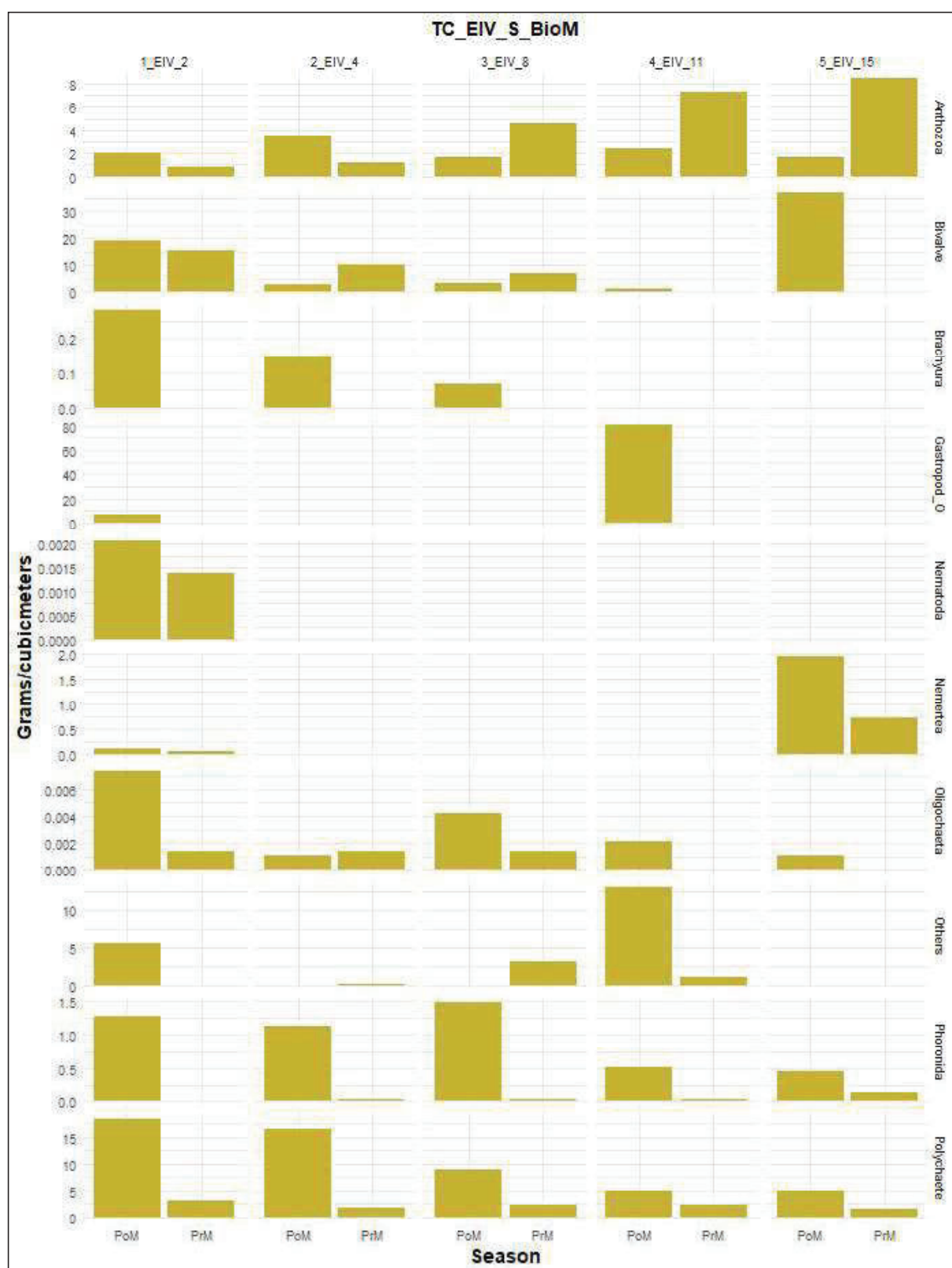


Fig. 24.2: Vertical stratification of macrobenthic biomass g/m³ in the intertidal mudflats of EIV cluster of Thane creek during the study period 2021–22

both the seasons. It was observed that no macrobenthic groups were found in Zone B during both seasons. Anthozoa and Nemertea were completely absent in all zones in both the seasons. Phoronida was only present at Zone A during Post-monsoon season. While comparing both the seasons, Post-monsoon season exhibited higher group density (1562.2/ m³) than Pre-monsoon season (40.2/ m³) in all observed zones.

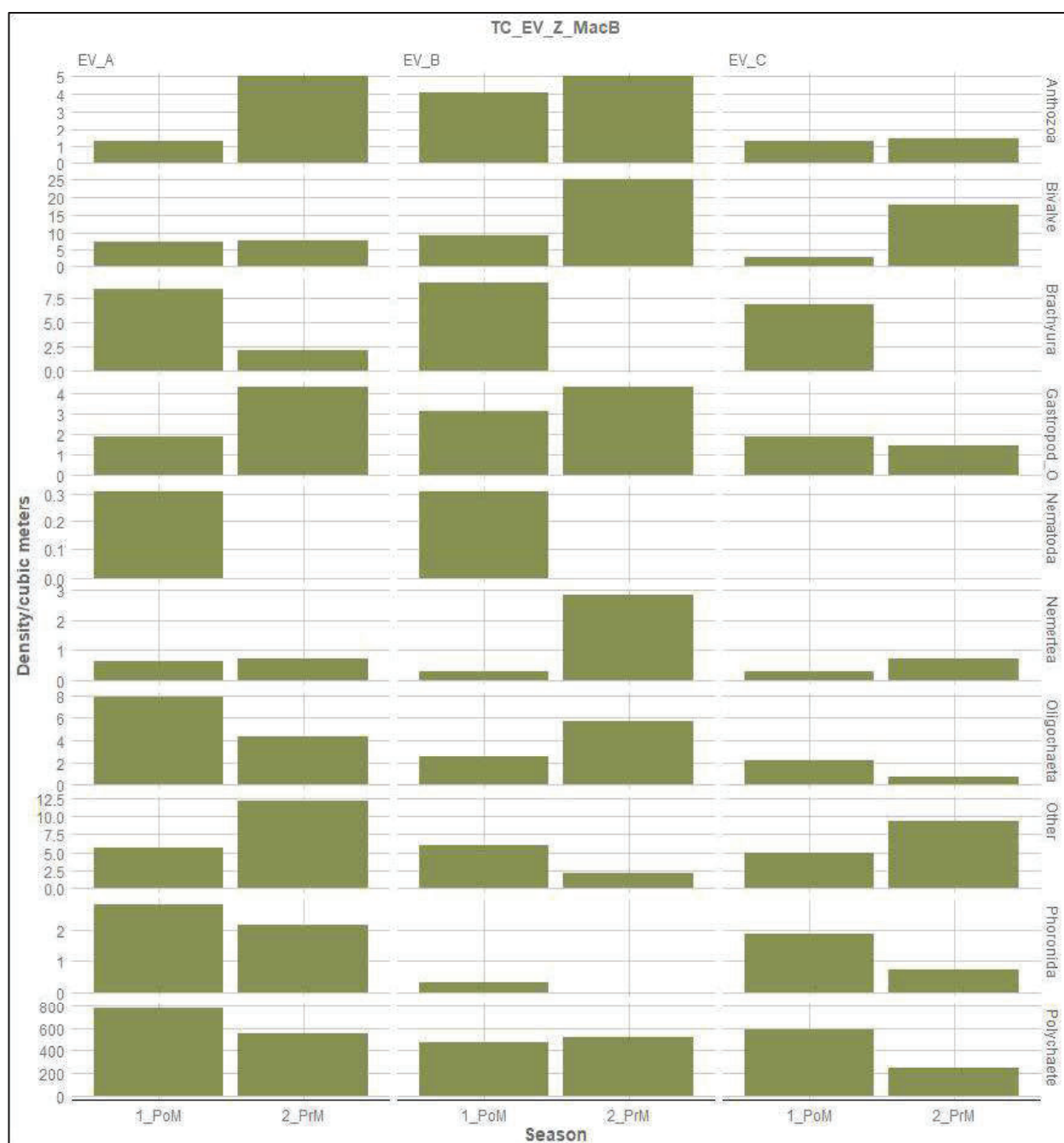


Fig. 25.3: Zonal variation of macrobenthic density / m^3 in the intertidal mudflats of EV cluster of Thane creek during 2021–22

The highest biomass in the assemblage seen, was contributed by Polychaetes ($0.356\text{g}/\text{m}^3$) followed by Oligochaetes ($0.030\text{g}/\text{m}^3$) and Nematoda ($0.032\text{g}/\text{m}^3$) respectively. The least contribution towards biomass was observed from Anthozoa, Bivalves, Brachyura, Gastropoda and Nemertea. Zone A ($0.277\text{g}/\text{m}^3$) showed comparatively higher biomass than Zone C ($0.104\text{g}/\text{m}^3$) during Post-monsoon season.

West Bank

In the entire study period, it was observed that Post-monsoon season had exhibited maximum macrobenthic density and biomass along the cluster WI ($2002.5/\text{m}^3$, $4.244\text{g}/\text{m}^3$) WII ($5272.5/\text{m}^3$, $4.78\text{g}/\text{m}^3$), WIII ($11894.69/\text{m}^3$, $127.98\text{g}/\text{m}^3$) and WIV ($14306.25/\text{m}^3$, $29.92\text{g}/\text{m}^3$). The least macrobenthic density and biomass was observed in Pre-monsoon season among all the clusters WI

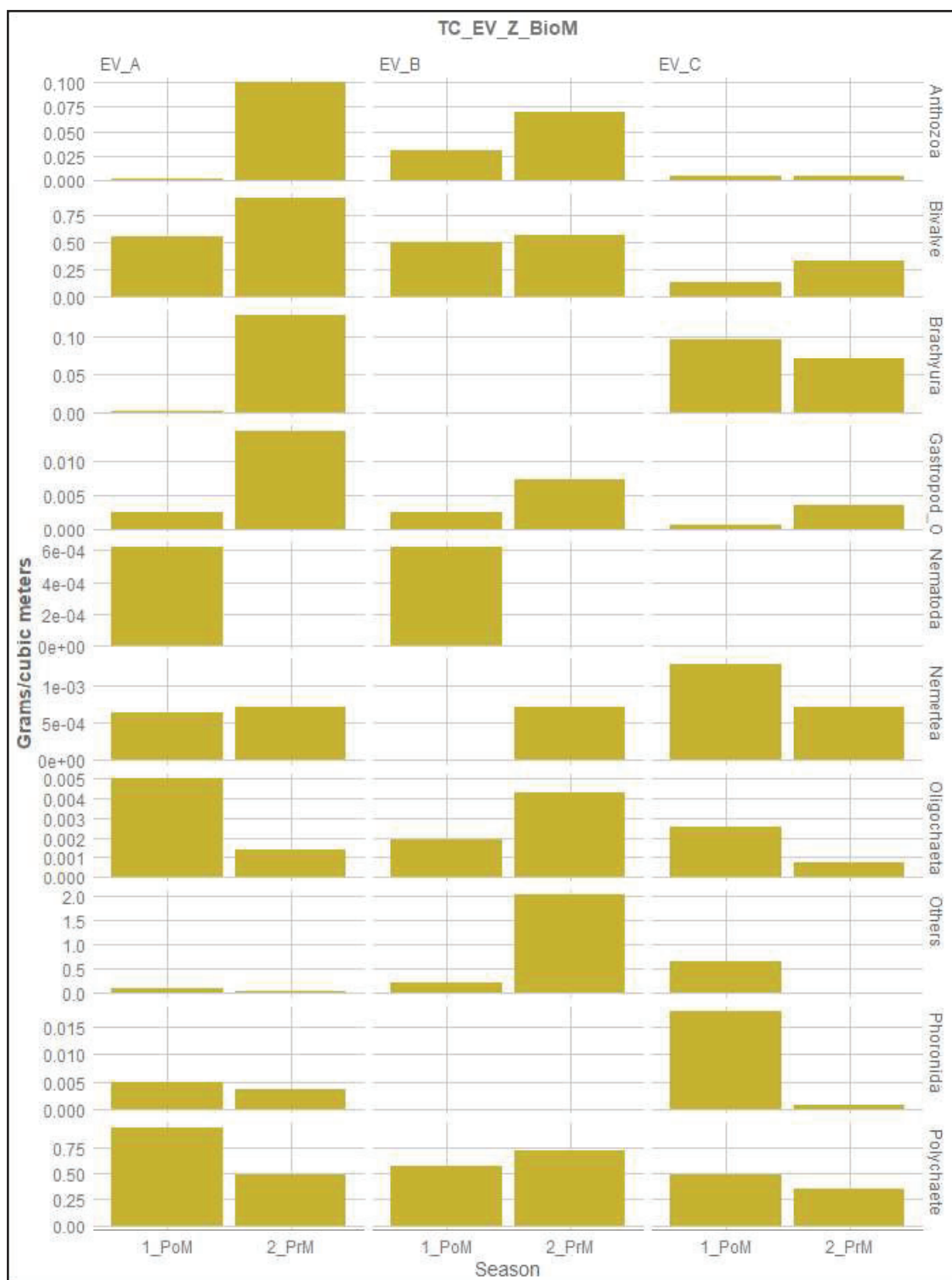


Fig. 25.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of EV cluster of Thane creek during the study period 2021–22

(1536.60/m³, 0.160g/ m³), W II (2496/m³; 0.78 g/m³, W III (3142.8/m³;2.184g/m³, W IV (3890.05/m³; 4.56g/m³). Comparatively, the highest values of density were observed at cluster W IV during Post-monsoon season (14306.25/ m³), whereas least values were observed at cluster W I (1536.6/ m³) during Pre-monsoon season.

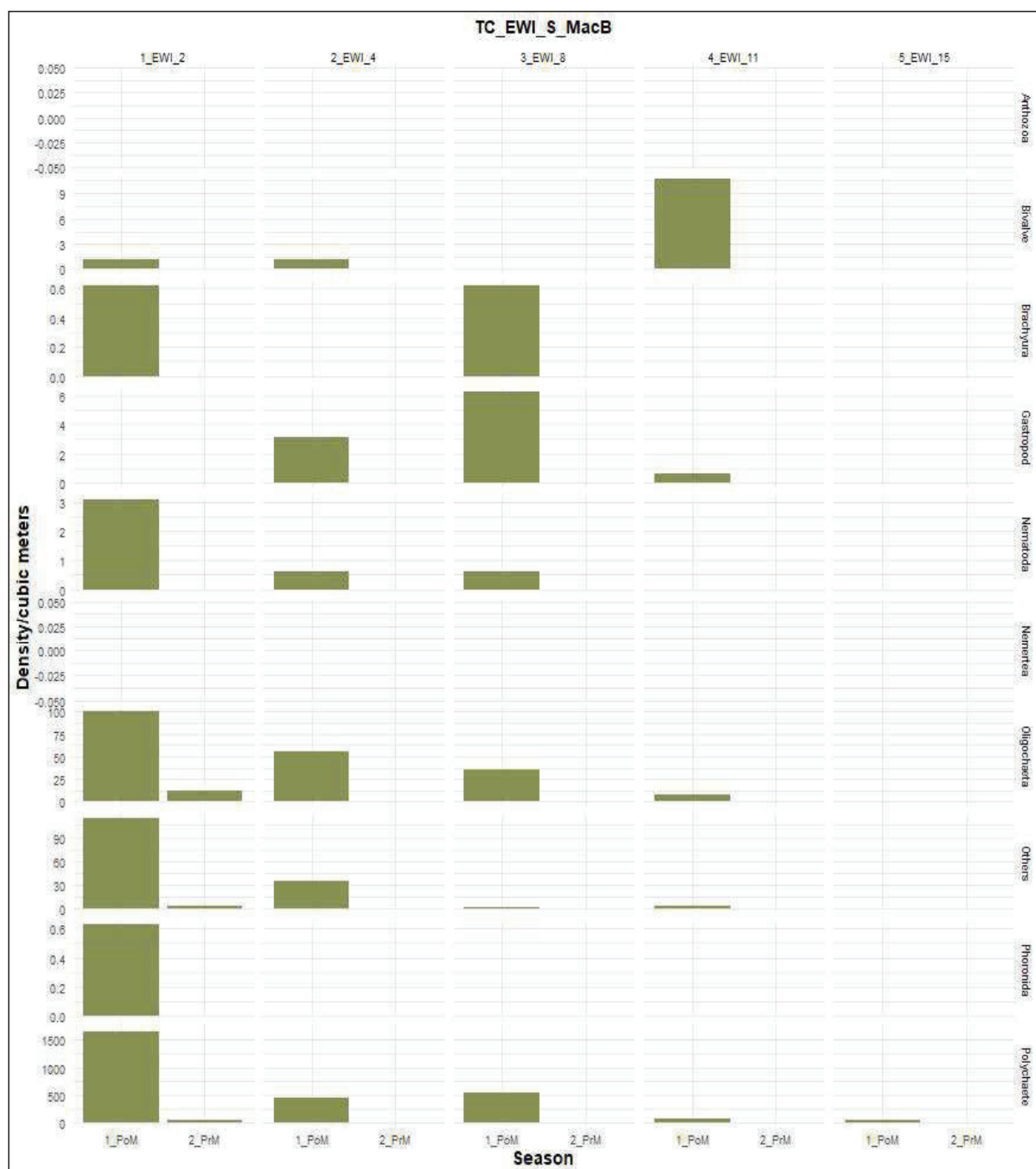


Fig. 26.1: Vertical stratification of macrobenthic density /m³ in the intertidal mudflats of EWI cluster of Thane creek during the study period 2021–22

The highest values of biomass were observed in the Post-monsoon season for cluster VIII (127.98g/m³) and W IV (29.92g/m³). The least values of biomass were observed during Pre-monsoon season at W I (0.160 g/m³).

W I (Fig.27.1-27.4)

Polychaete was the most dominating group along the cluster and the single group which was present throughout sampling seasons. Along the cluster, 5 faunal groups were recorded. Macrobenthic density and biomass exhibited a decline from Post-monsoon season (2002.5/m³, 4.244g/m³) to Pre-monsoon season (1536.6/m³, 0.160 g/m³)

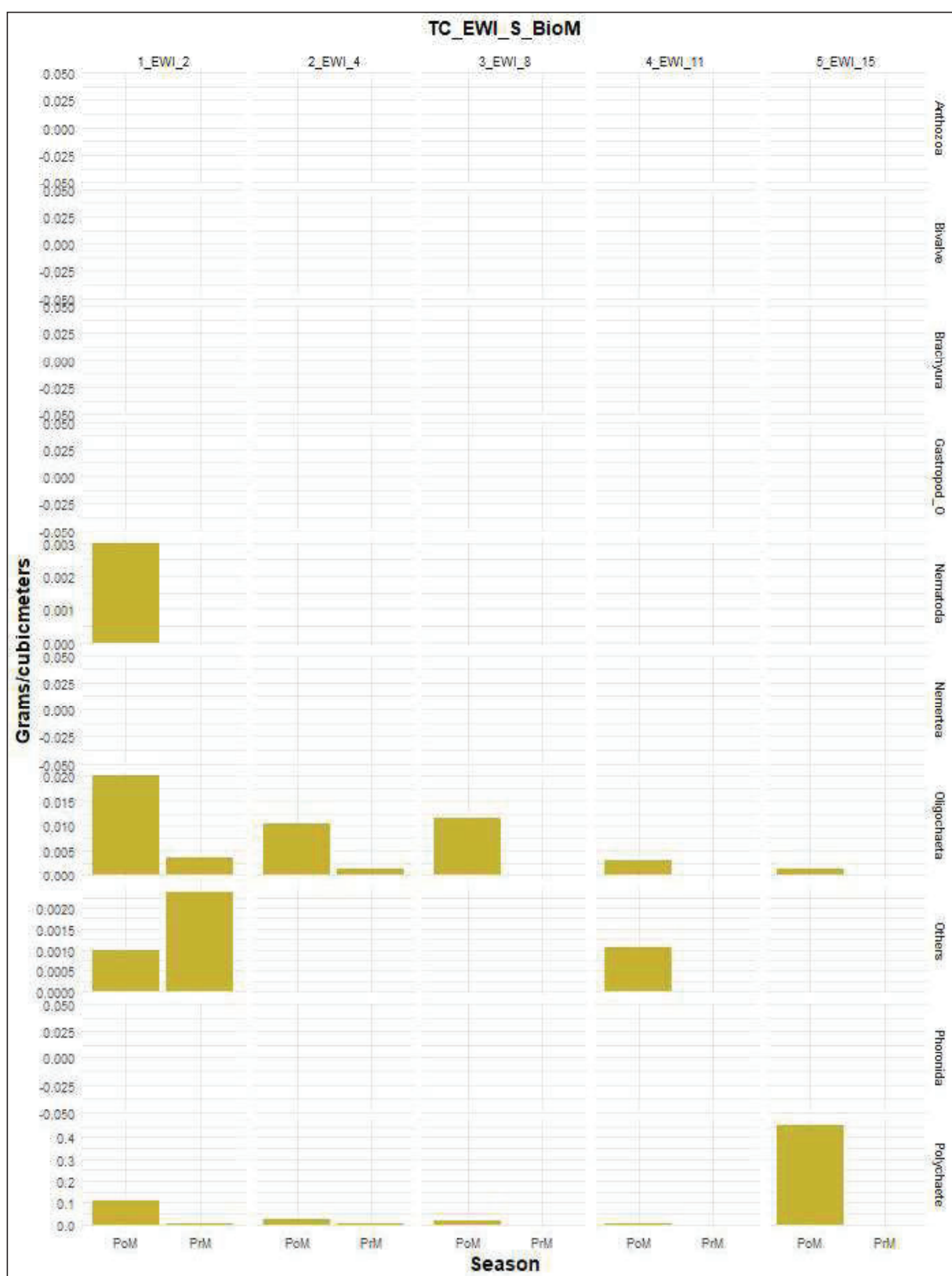


Fig. 26.2: Vertical stratification of macrobenthic biomass g/m³ in the intertidal mudflats of EWI cluster of Thane creek during the study period 2021–22

Vertical stratification

Polychaete was observed in all the strata during the entire study period. Bivalves were found only within stratum 2-4 cm, during Post-monsoon season. Gastropoda was only present in the upper stratum 0-2 cm, in both seasons. Phoronida was only observed in uppermost stratum 0-2 cm in the Post-monsoon season. Oligochaete was found to be more abundant in Post-monsoon season (540.9/ m³) than Pre-

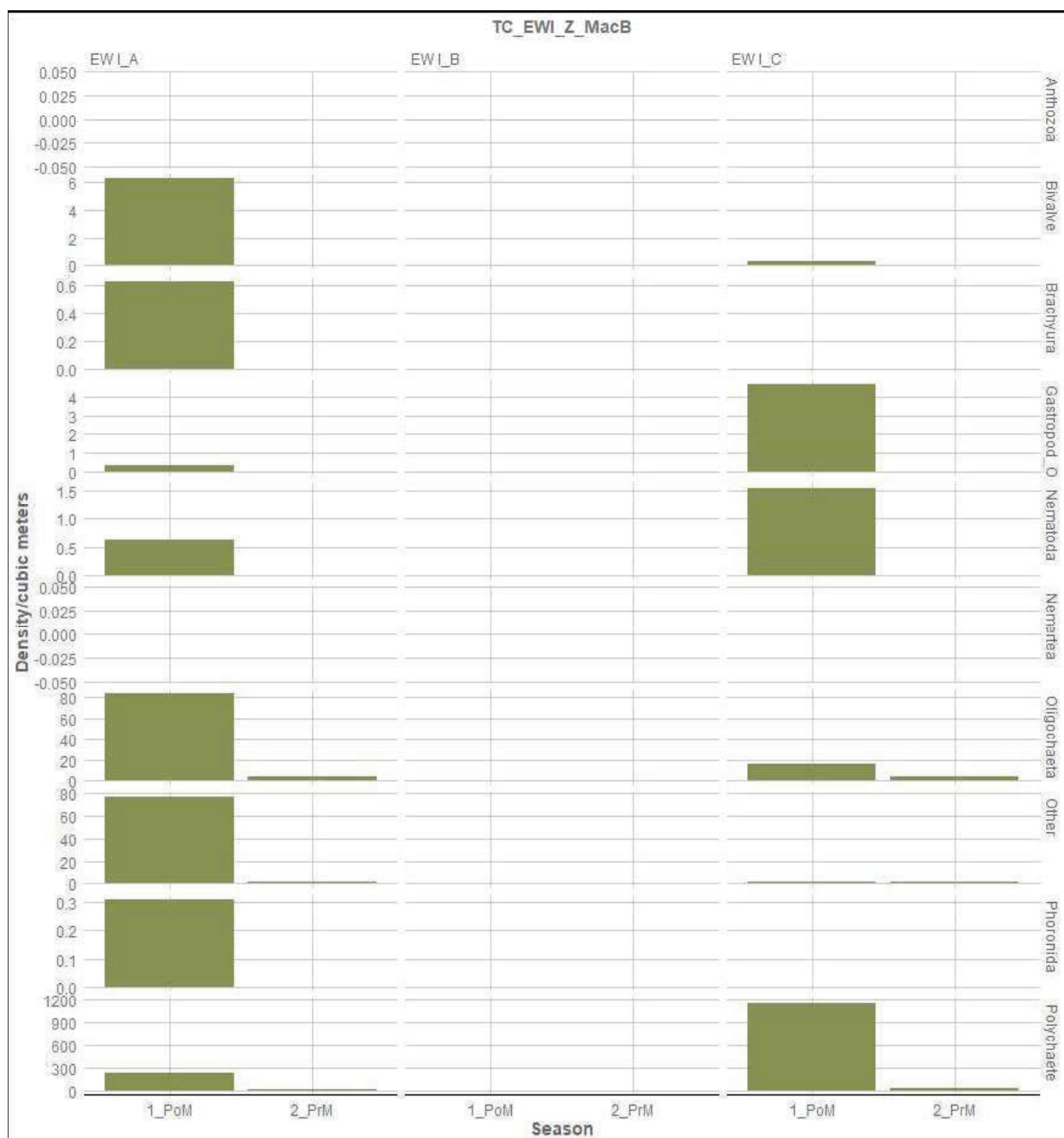


Fig. 26.3: Zonal variation of macrobenthic density /m³ in the intertidal mudflats of EWI cluster of Thane creek during the study period 2021–22

monsoon season (73.6/ m³). Macrobenthic density and biomass has declined from the upper stratum 2cm to lowermost stratum 11-15cm during Pre-monsoon and Post-monsoon.

The observation depicts that, Polychaete has the highest overall biomass (14.38g/ m³) followed by Brachyura (0.65g/ m³) and Oligochaete (0.5/ m³). Uppermost stratum from 0-2 cm shows highest contribution to the overall biomass of Post-monsoon season (7.2g/ m³). Lowest overall biomass was seen in Nematoda (0.01g/ m³) and Bivalves (0.012g/ m³). Nematoda showed almost equal biomass during both seasons in upper stratum 0-2 cm.

Intertidal zonation

During the study period, it was observed that Zone C exhibited maximum density of Polychaetes during Pre-monsoon (1147.5/m³), whereas the least density was observed in Pre-monsoon in Zone A



Fig. 26.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of EWI cluster of Thane creek during the study period 2021–22

(52.5 /m³). It was also observed that there was a gradual increase in the density of polychaetes from Zone A (447.5/ m³) to Zone C (627.5/ m³) in both the seasons. Phoronida and Bivalves were only found during Post-monsoon season in Zone C. Anthozoa, Brachyura and Nemertea were completely absent across all observed seasons. Nematoda showed a higher density (44.16 /m³) during Pre-monsoon season across all zones, whereas Oligochaete showed higher density (324.5/ m³) during Post-monsoon season across all zones. The highest polychaete biomass was observed in Zone C during Post Monsoon

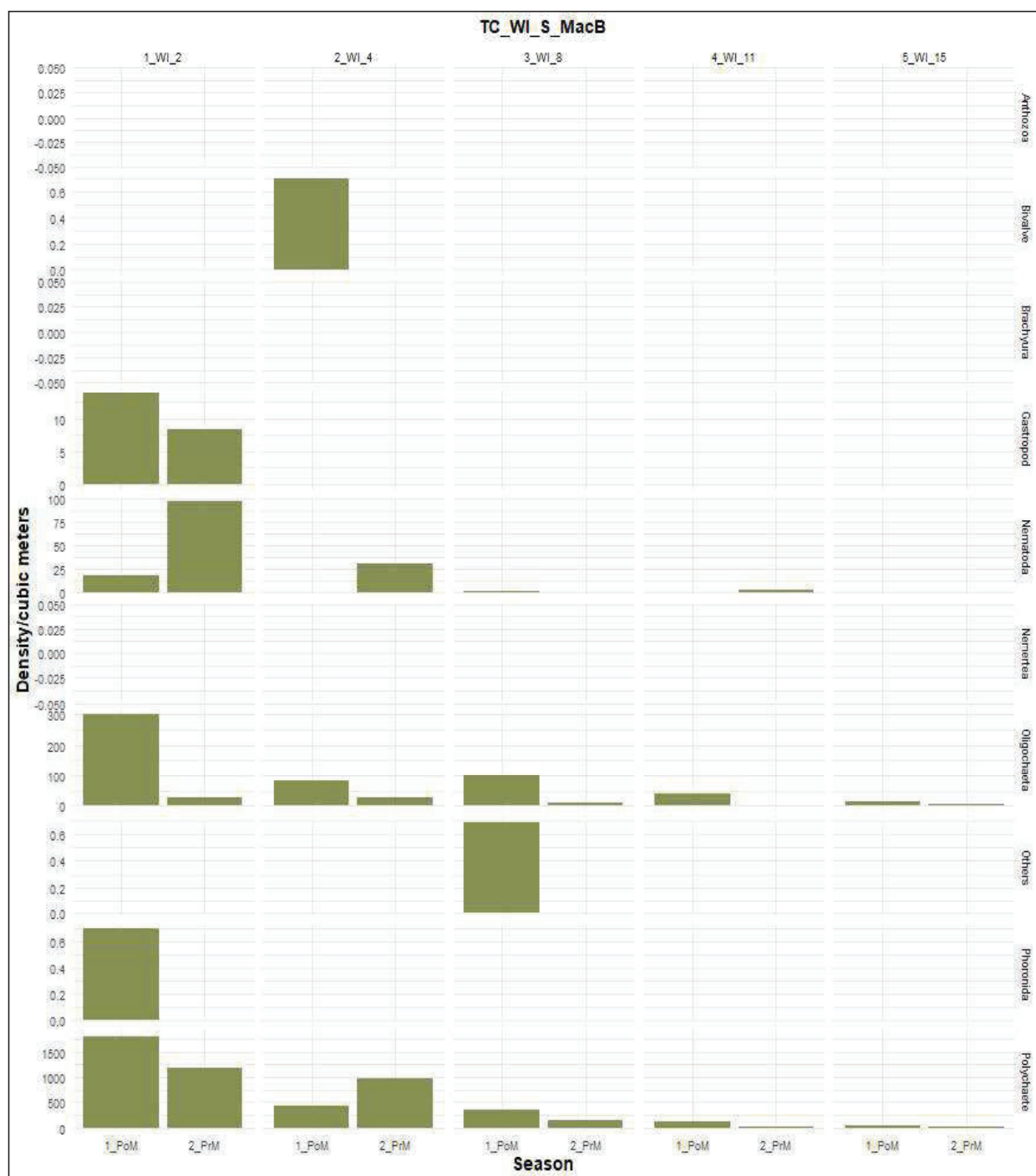


Fig. 27.1: Vertical stratification of macrobenthic density /m³ in the intertidal mudflats of WI cluster of Thane creek during the study period 2021–22

season (4.76g/ m³). The lowest polychaete biomass was observed during Pre-monsoon in the Zone A (0.026g/ m³). The biomass of Nematoda was almost same during both the seasons in Zone B and Zone C.

W II (Fig.28.1-28.4)

Polychaete was the most dominating group along all the clusters and only faunal group recorded in all seasons. Macrobenthic density and biomass have shown a significant decrease from Post-monsoon season (5272.5/m³, avg. 14.78g/m³) to Pre-monsoon season (2496/m³, 0.782 g/m³). Along the clusters, 5 invertebrate phyla were recorded.

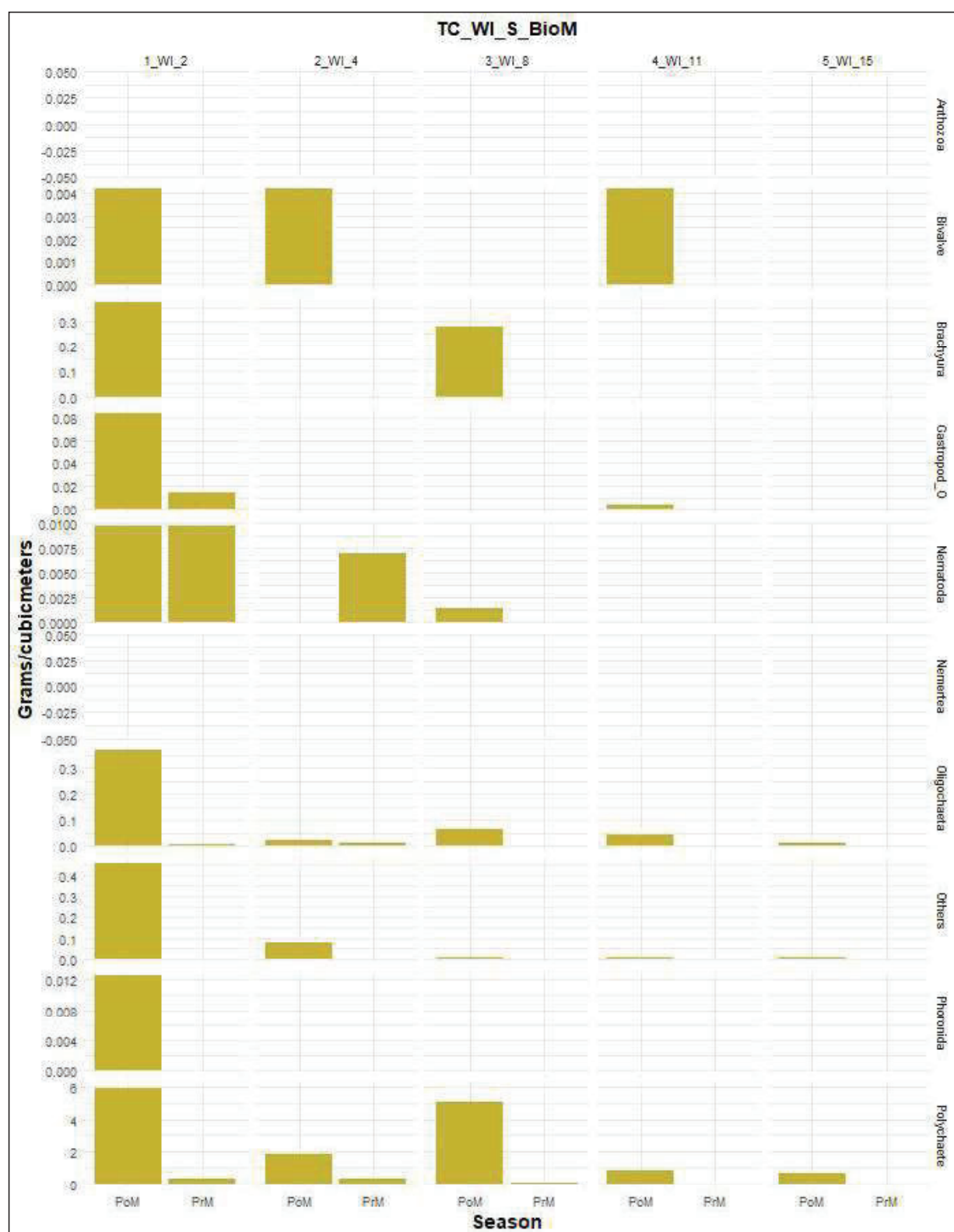


Fig. 27.2: Vertical stratification of macrobenthic biomass g/m³ in the intertidal mudflats of WI cluster of Thane creek during the study period 2021–22

Vertical stratification

The maximum density was observed for polychaetes during Post-monsoon season in upper stratum 2 cm (4592.7/ m³), followed by Oligochaete (880.20/ m³) during Post-monsoon season of upper stratum 2 cm. A decreasing trend was observed stratum wise, from upper 0-2 cm to lowered areas of 11-15 cm. Brachyura was only found in Post-monsoon season of stratum 2 cm. Highest group diversity was found in upper stratum 0-2 cm during Post-monsoon season (8 no). Anthozoa was only present during Post-

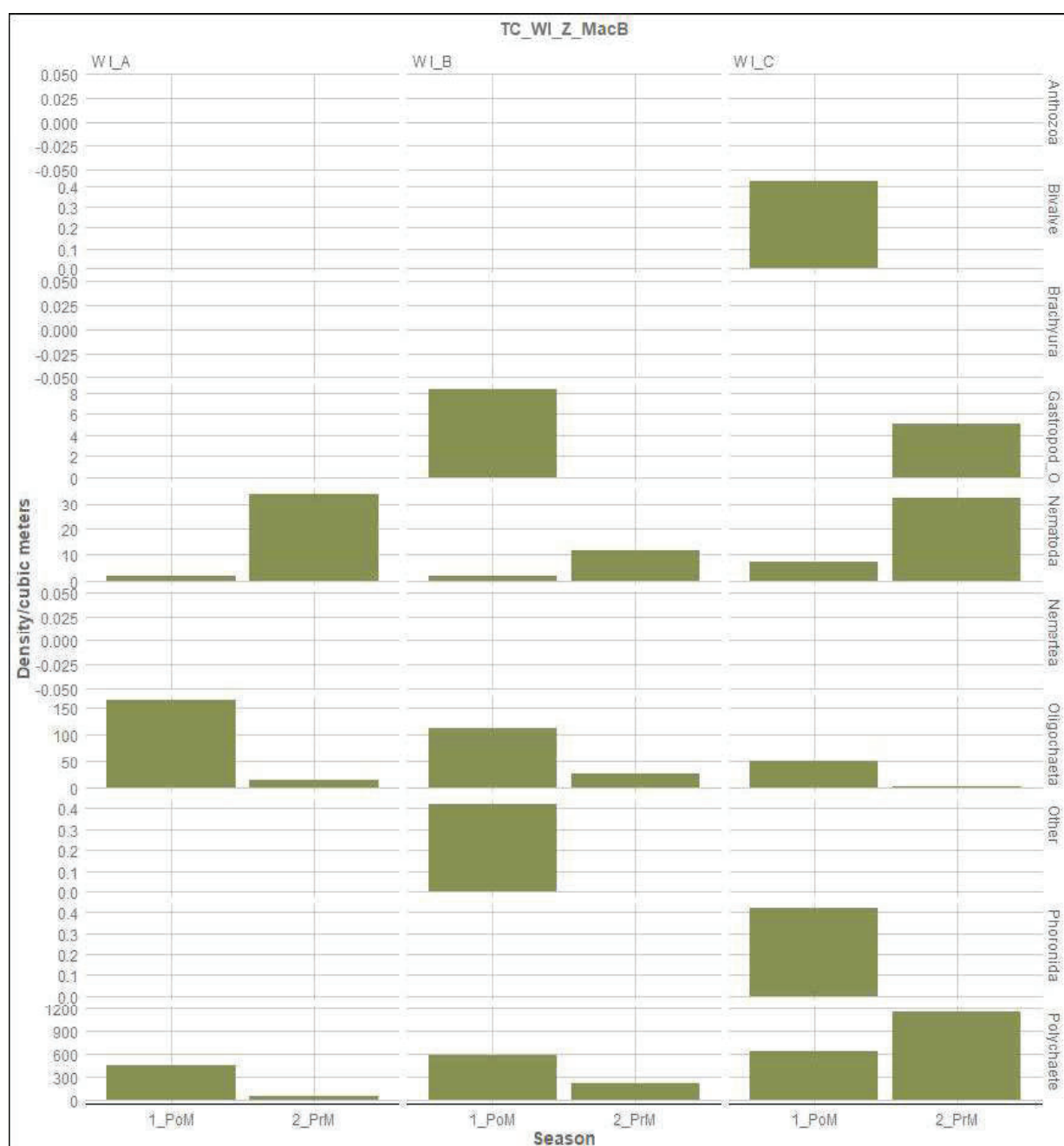


Fig. 27.3: Zonal variation of macrobenthic density /m³ in the intertidal mudflats of WI cluster of Thane creek during 2021–22

monsoon season from stratum 2 cm to 8 cm and was completely absent in 8cm -15 cm. Polychaete was present in all the stratum followed by Phoronida, Gastropoda and Bivalves.

Polychaete contributes the highest to overall biomass (41.72g/ m³) followed by gastropods (27.7g/ m³), whereas, Nematoda (0.003g/ m³) contributes least to the overall biomass followed by oligochaetes. Upper stratum 0-2cm shows the highest biomass than that of the other stratums followed by upper stratum 2-4 cm. It has been observed that Post-monsoon shows significantly higher biomass (72.28g/ m³) than Pre-monsoon across all the stratums (3.91g/ m³).

Intertidal zonation

In the present study, it was observed that highest density of polychaetes was found during Post-monsoon season in Zone B (1680.31/ m³). The lowest density was present in Zone C of Pre-monsoon



Fig. 27.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of WI cluster of Thane creek during the study period 2021–22

season (679/ m³). Brachyura was only observed during Post-monsoon season in Zone B. Anthozoa was found to be only present during Post-monsoon season across all the zones. Nemertea was only present during Post-monsoon season in Zone C. Density of Anthozoa showed a decreasing trend from Zone A (1.25/ m³) to Zone C (0.31/ m³). Phoronida was absent during Pre-monsoon season of Zone A and Zone B, however it showed a slight increase in density during Pre-monsoon season of Zone C (1/ m³). Gastropod was not found in Pre-monsoon season of Zone B. Overall, Zone B had maximum faunal diversity during



Fig. 28.1: Vertical stratification of macrobenthic density/m³ in the intertidal mudflats of WII cluster of Thane creek during the study period 2021–22

both the seasons. Polychaete has the maximum contribution to overall macrobenthic density during the entire sampling period (6749/ m³).

The highest biomass was observed to be of Gastropoda during Post-monsoon season of Zone A (14.33/ m³), followed by Polychaete during Post-monsoon season of Zone B (9.28g/ m³), while the lowest biomass was of Phoronida during Post-monsoon season of Zone B (0.0025g/ m³) followed by Anthozoa during Post-monsoon season of Zone C (0.0025g/ m³).

W III (Fig.29.1-29.4)

Polychaete was the most dominating group along all the clusters and only faunal group recorded in all seasons. There was a substantial decline in macrobenthic density and biomass from Post-monsoon

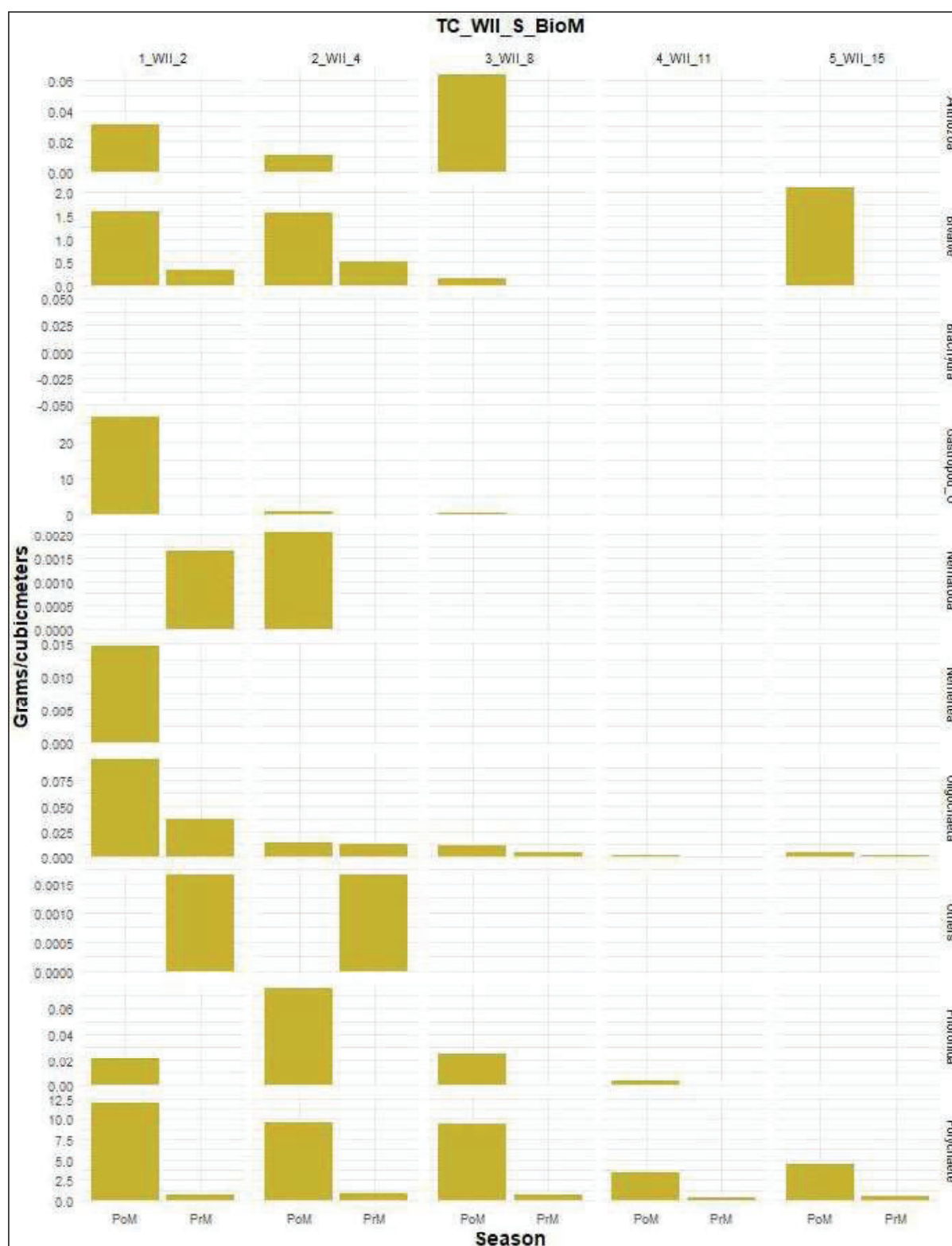


Fig. 28.2: Vertical stratification of macrobenthic biomass g/m³ in the intertidal mudflats of WII cluster of Thane creek during the study period 2021–22

season (11894.69/m³, avg. 127.98g/m³) to Pre-monsoon season (3142.8/m³, 2.184g/m³). Along the cluster, 5 invertebrate phyla were recorded.

Vertical stratification

Uppermost Stratum from 0-2 cm shows the highest abundance (9855.7/ m³) as well as the highest group diversity amongst all the strata. Polychaete shows a declining trend from upper most stratum



Fig. 28.3: Zonal variation of macrobenthic density /m³ in the intertidal mudflats of WII cluster of Thane creek during 2021–22

0-2 cm to lowermost stratum 11-15 cm in both the seasons. Nemertea shows a sudden spike in abundance during Pre-monsoon season in lowermost sediment up to 15 cm. Nematoda was completely absent in stratum 4 cm and 8 cm. Anthozoa was present across all the strata and all the seasons except stratum 11-15 cm of Pre-monsoon season. Apart from Nematoda, other groups such as Anthozoa, Brachyura, Bivalve, Gastropoda, Nemertea, Oligochaete, Polychaete and Phoronida were present across all the strata. Polychaete shows the maximum biomass in stratum uppermost 0-2 cm (50.33g/ m³) during Post monsoon season. The maximum biomass was contributed by Bivalves (258.8g/ m³) followed by Gastropods (170.1g/ m³) and Polychaetes (136.4g/ m³) respectively. The least biomass was observed in Nematoda (0.003g/ m³) followed by oligochaetes (0.0362g/ m³). Stratum 4-8 cm has maximum biomass in Post-monsoon season (175.10g/ m³). The maximum biomass concentration was seen in Post-monsoon season across all the stratum.



Fig. 28.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of WII cluster of Thane creek during the study period 2021–22

Intertidal zonation

The highest density was observed to be in Polychaetes during Post-monsoon season in Zone A (4241.2/ m³). Bivalve was found to be in high density during Post-monsoon season in Zone-B (280.93/ m³). Oligochaete showed a gradual decrease in density from Zone-A to Zone C across both the seasons. Nematoda was only found in the Post-monsoon season of Zone A and Zone B. Nemertea was completely absent in Zone B during both the seasons. Post-monsoon season has highest density of Polychaetes

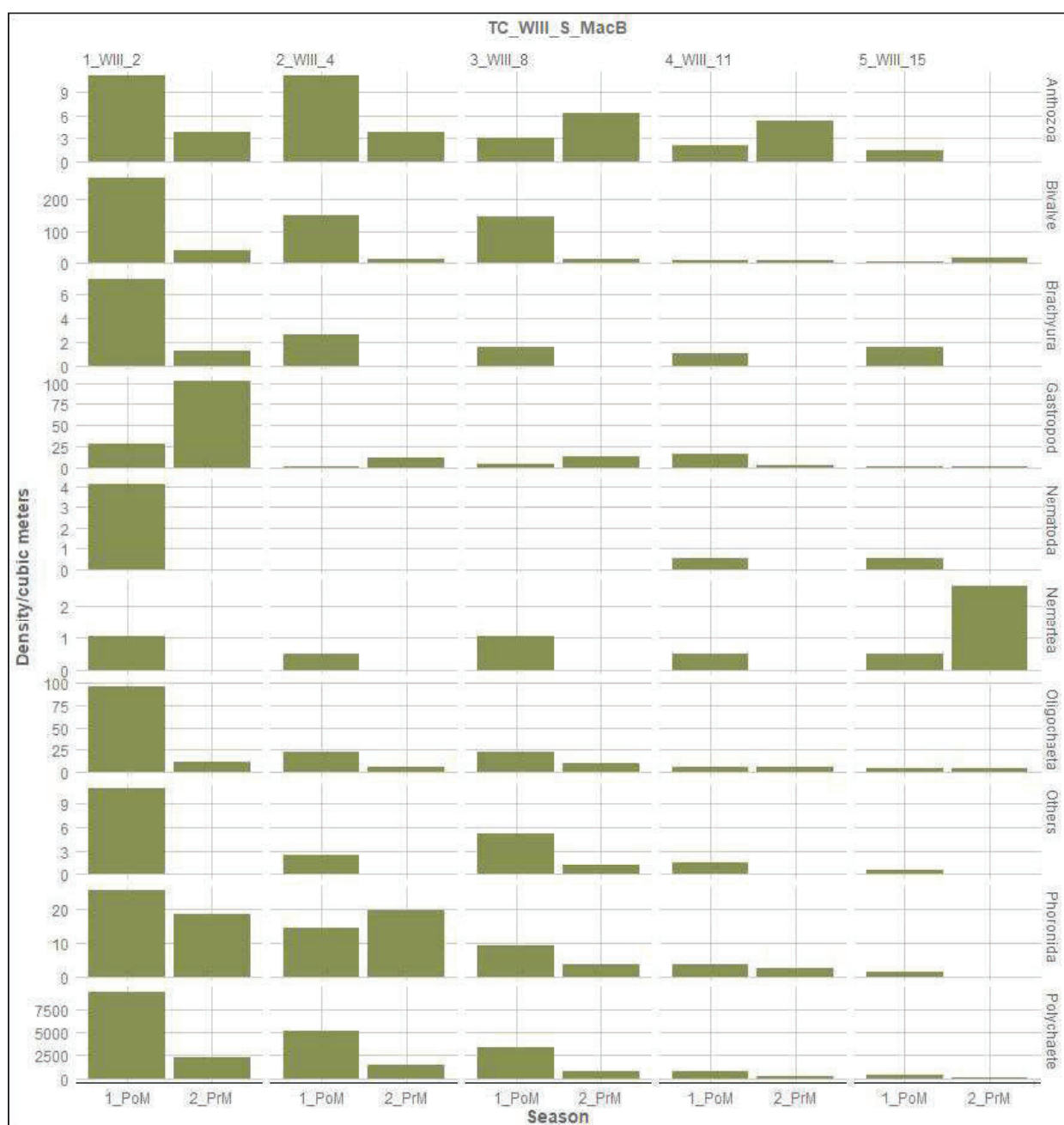


Fig. 29.1: Vertical stratification of macrobenthic density/m³ in the intertidal mudflats of WIII cluster of Thane creek during the study period 2021–22

(11352.18/ m³) than Pre-monsoon season in all Zones (3268.29/ m³). Phoronida showed a sudden increase in density in the Pre-monsoon season of Zone C (21.21/ m³). Maximum contribution to the overall biomass, is by Bivalves (155.3g/ m³) followed by Gastropoda (102.04g/ m³) and Polychaetes (81.82g/ m³) respectively. Decreasing trend in Biomass of Bivalves was observed across all the Zones in Post-Monsoon season. Biomass of Polychaetes during Post-monsoon (78.20g/ m³) season was significantly higher than Biomass during Pre-monsoon season (3.62g/ m³).

W IV (Fig.30.1-30.4)

In terms of Density and Biomass, Polychaete (17950.7/ m³, 58.9g/ m³) was the most dominating group along the cluster and was recorded in all seasons. The density and biomass for the macrobenthic community had significantly decreased from Post-monsoon season (14306.25/m³, 29.92g/m³) to Pre-monsoon season (3890.05/m³, 4.56g/m³). Along the clusters, 5 invertebrate phyla were recorded.

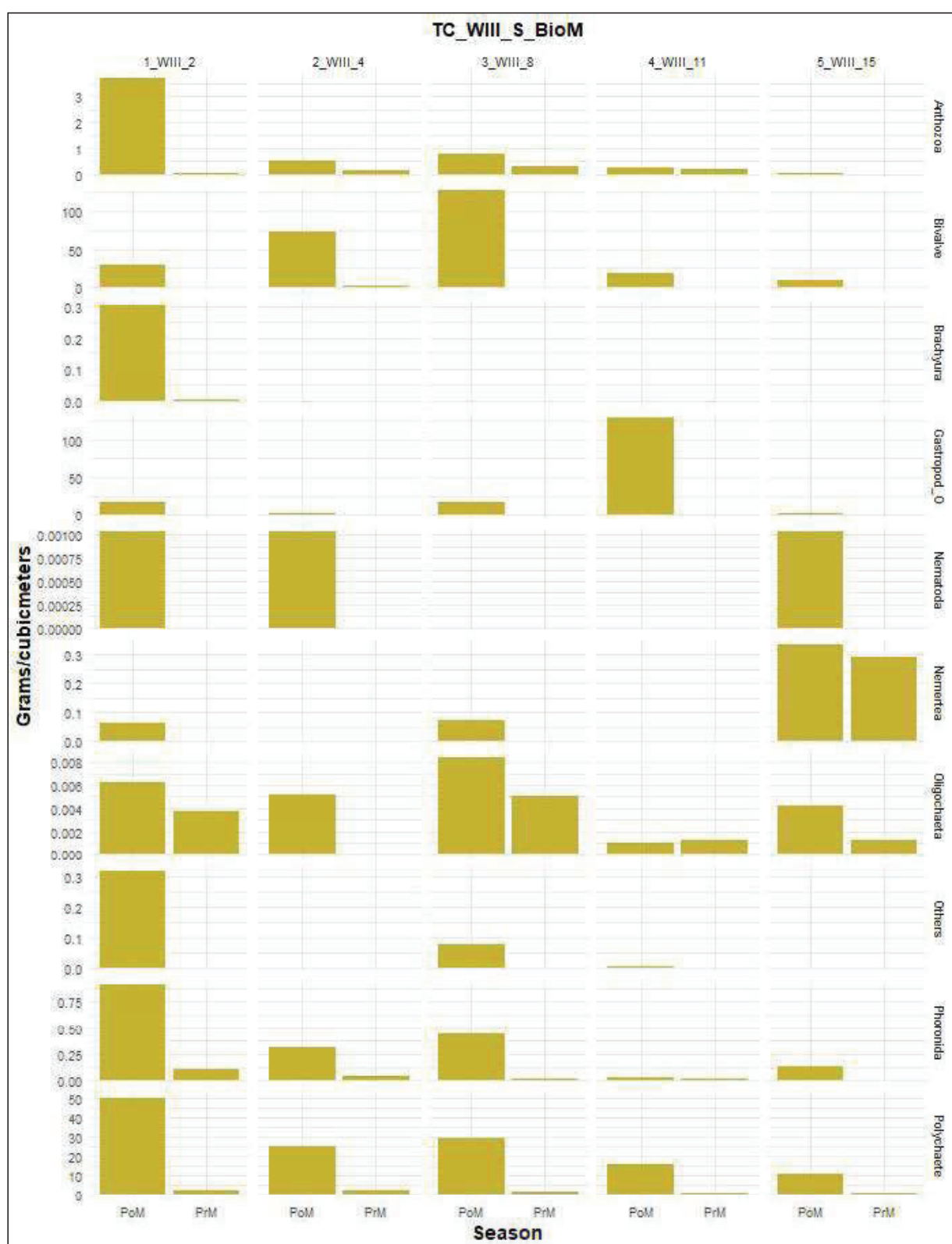


Fig. 29.2: Vertical stratification of macrobenthic biomass g/m³ in the intertidal mudflats of WIII cluster of Thane creek during the study period 2021–22

Vertical stratification

Anthozoa and Polychaete were present in all the stratum in both the seasons. Nematode was only present during Post Monsoon seasons of strata 8 and 11. Nemertea is present in all the stratum except upper 2 cm. Polychaete is showing a gradual decline from upper stratum 2 cm to lower 15 cm and across both the seasons. Strata 4-8 cm and 8-11 cm shows the highest group diversity followed by strata 2-4 cm.



Fig. 29.3: Zonal variation of macrobenthic density g/m³ in the intertidal mudflats of W III cluster of Thane creek during the study period 2021–22

Polychaete showed higher contribution to biomass in upper stratum 2 cm (12764.06/ m³) followed by stratum 4 cm (8135.9/ m³) and 8 cm (6595.6/ m³). Gastropod showed second highest biomass in stratum upper 2 cm and 2-4 cm during Post-monsoon season. Nematode showed the least biomass amongst all the groups (2.083g/ m³).

Intertidal Zonation

In the present study, it was observed that Anthozoa was present across all zones during Post-monsoon. Nematoda was only present in Zone C of Post monsoon season. Nemertea was present in all zones of both seasons except the Pre-monsoon season.

Oligochaete was found to be abundant in Zone A (3.44/ m³) with a sudden decrease in density in Zone B (0.63/ m³) and again an increase in Zone C (3.75/ m³) during Post-monsoon season. Oligochaete was only present in the Post monsoon season and it was completely absent in Pre monsoon season. Phoronida

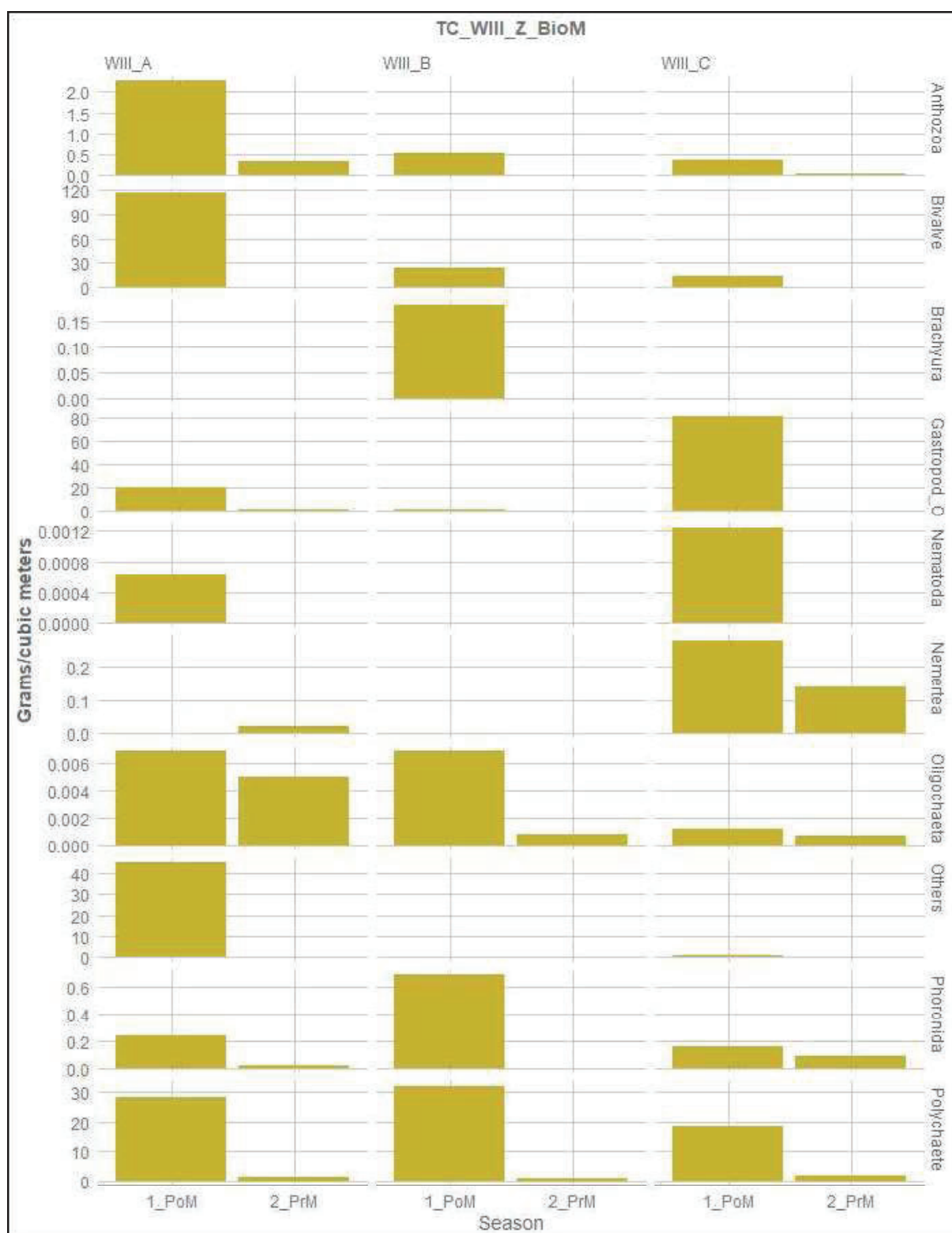


Fig. 29.4: Zonal variation of macrobenthic biomass g/m³ in the intertidal mudflats of W III cluster of Thane creek during the study period 2021–22

was present in all the zones across all the seasons except in Zone A of Pre monsoon season. Polychaete was present in both the seasons across all the zones. However, the density of polychaete was more in Post monsoon season (14148.12/ m³) as compared to pre monsoon season (3802.61/ m³). The biomass of Polychaete was more in Post monsoon season (17.40g/m³) as compared to the Pre monsoon season (2.241g/m³). Zone A of Post monsoon season comparatively showed higher biomass (44.64g/ m³) than the rest of the zones across all macrobenthic groups. The Polychaetes showed the highest contribution to the biomass followed by Gastropods.

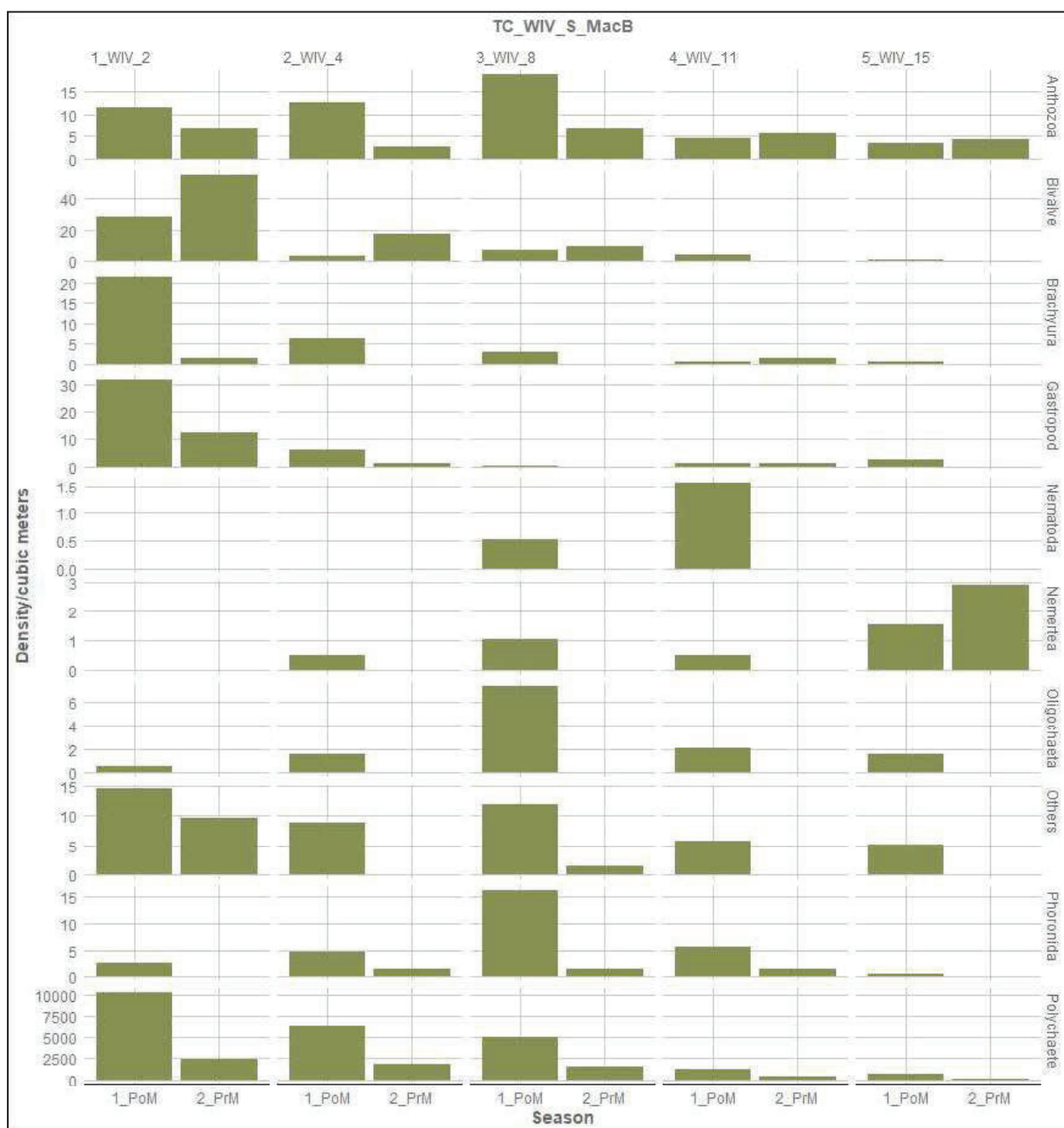


Fig. 30.1: Vertical stratification of macrobenthic density /m³ in the intertidal mudflats of WIV cluster of Thane creek during the study period 2021–22

Sewri (Fig.31.1-31.2)

In the present study, it was observed that Polychaetes showed the highest density (140.86/m³), followed by Gastropods (4.266/ m³) and Bivalves (1.4/ m³) across all the zones during both seasons. Polychaeta and Bivalves were the only groups found in Zone A during Pre-monsoon season. Groups like Phoronida and Nemertea were completely absent across all the zones and during both seasons. Lucifer, Bivalve and Gastropods were only present in Zone A and Zone B of Post-monsoon season. During Post-monsoon season, Zone B exhibits the highest polychaete density (52.13/ m³) when compared to Zone A (35.2/ m³) and Zone C (30.53/ m³). The density of Gastropods shows a steady decline from Zone A to Zone C. Post-monsoon season shows the highest group wise diversity (11 No) than that of Pre-monsoon season (2 No).

Polychaeta contributes the highest to the overall biomass across all the zones, during both seasons (0.117g/ m³). The second highest contribution to biomass is by Gastropods (0.035g/ m³), followed by

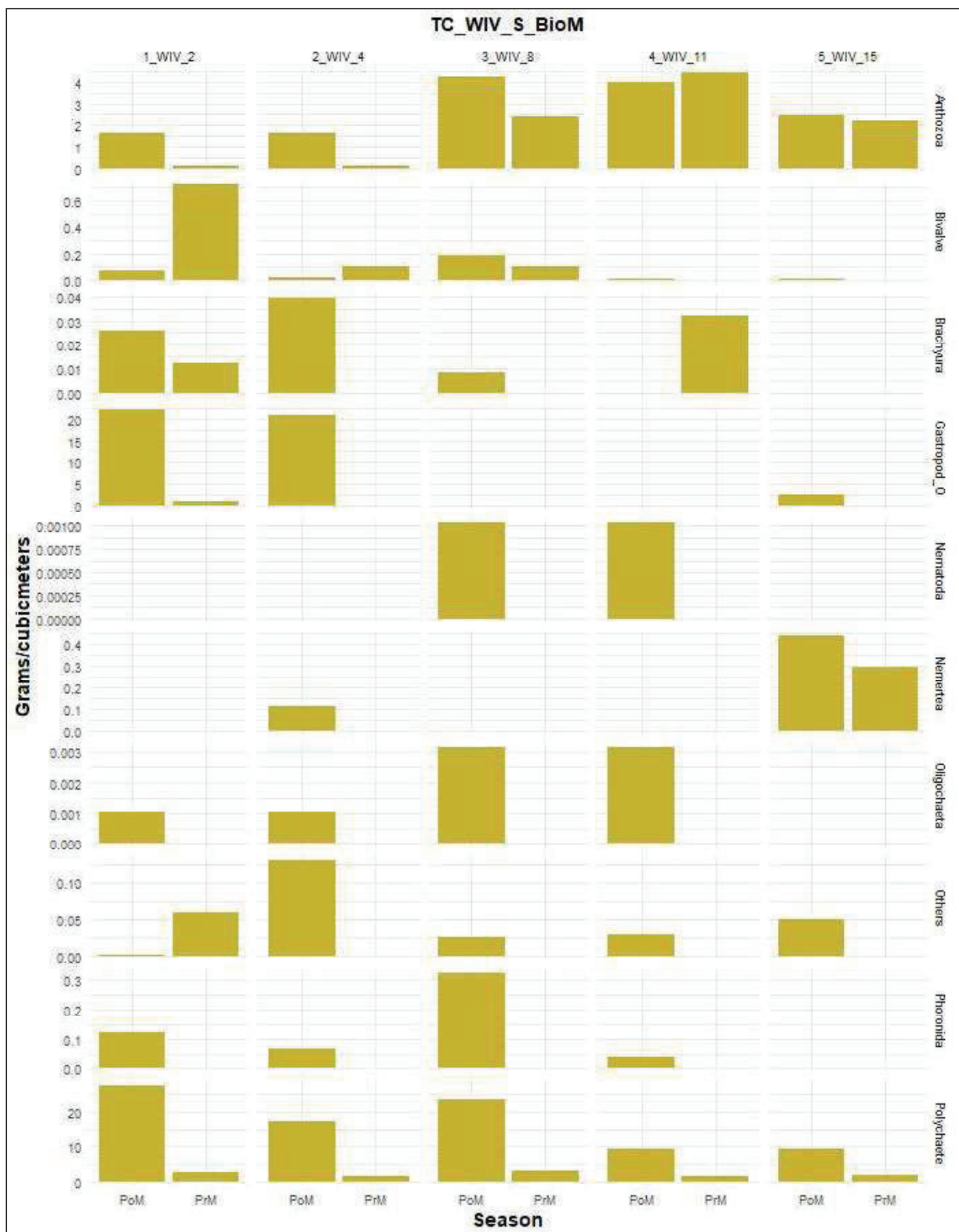


Fig. 30.2: Vertical stratification of macrobenthic biomass g/m³ in the intertidal mudflats of WIV cluster of Thane creek during the study period 2021–22

Brachyura (0.006g/ m³). Shrimp exhibits the lowest contribution towards biomass (0.000067g/ m³), followed by Nematoda (0.00026/ m³).

Nhava (Fig.32.1-32.2)

According to the findings of the current study, it was observed that Polychaete shows the most abundance across all the zones during both the seasons. (251.6/ m³). Unlike, the rest of the results, Pre-

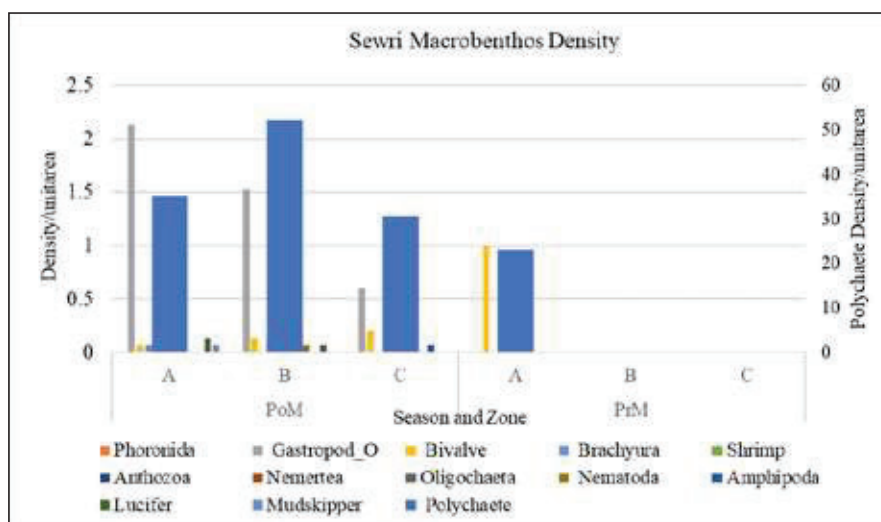


Fig. 31.1: Seasonal variation of macrobenthic density /m³ of Sewri during the study period 2021–22

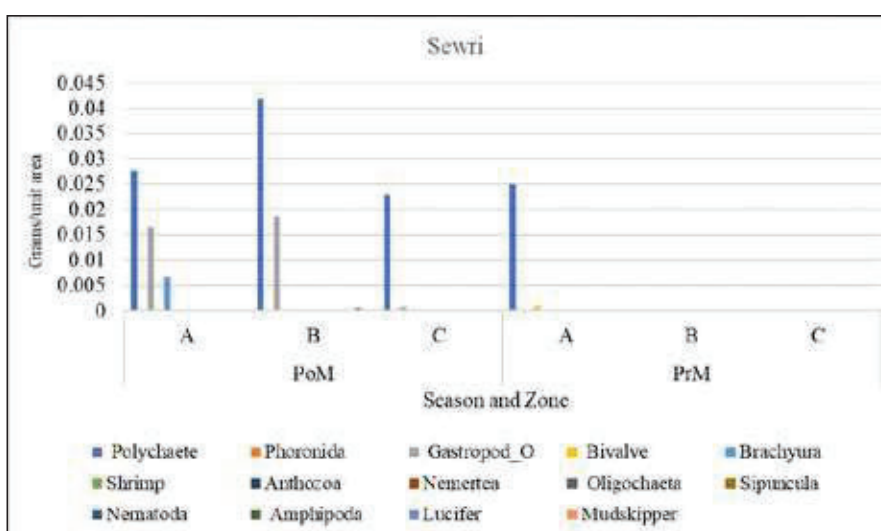


Fig. 31.2: Seasonal variation of macrobenthic biomass g/m³ of Sewri during the study period 2021–22

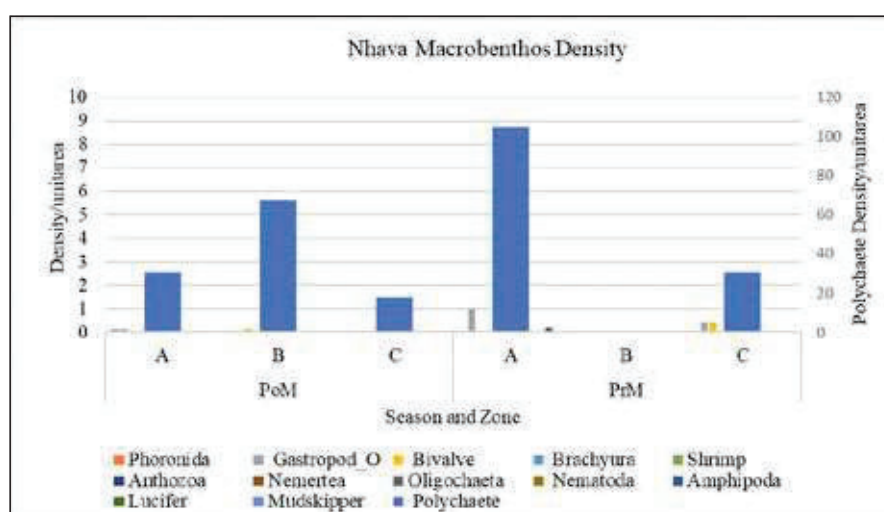


Fig. 32.1: Seasonal variation of macrobenthic density/m³ of Nhava during the study period- 2021–22

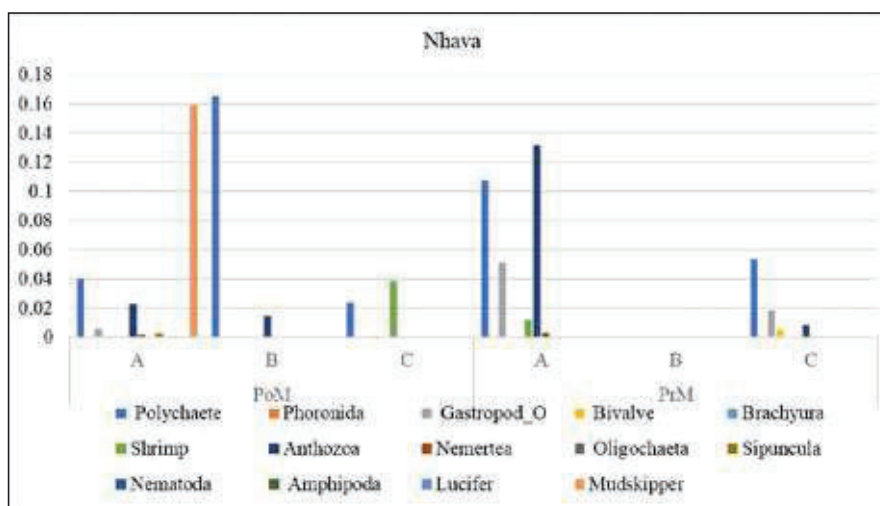


Fig. 32.2: Seasonal variation of macrobenthic biomass g/m³ of Nhava during the study period 2021–22

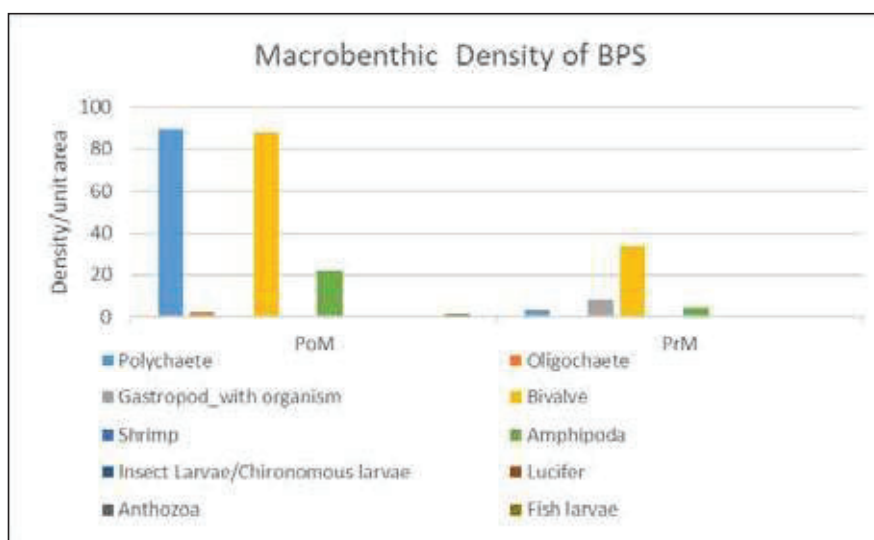


Fig. 33.1: Seasonal variation of macrobenthic density/m² in BPS wetland during the study period-2021–22

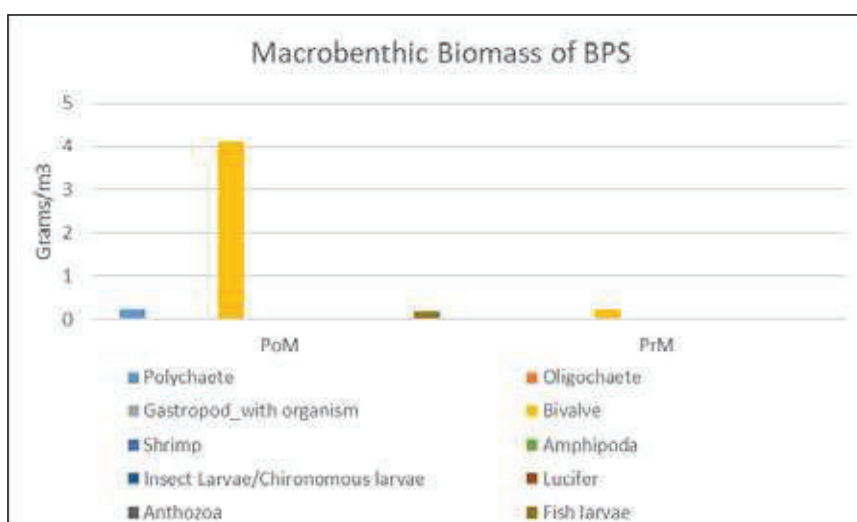


Fig. 33.2: Seasonal variation of macrobenthic biomass g/m³ in BPS wetland during the study period-2021–22

monsoon season shows more Polychaete density in Zone A. ($104.8/\text{m}^3$), However, no Polychaetes or any other groups were observed in Zone-B. Zone-C showed a slight increase in the density of Polychaetes during Pre-monsoon season ($30.8/\text{m}^3$), followed by Anthozoa ($0.8/\text{m}^3$), Gastropoda ($0.4/\text{m}^3$) and Bivalves ($0.4/\text{m}^3$). Lucifer was only present in the Zone-A of Pre-monsoon season. Polychaetes dominate the Post-monsoon season across all the zones ($116/\text{m}^3$), however it shows an increase in density in Zone-B ($67.6/\text{m}^3$) and then decreases rapidly in Zone-C ($17.6/\text{m}^3$). Post-monsoon shows higher group diversity (8 No) than that of Pre-monsoon season (7 No).

Polychaetes contribute highest towards the overall biomass ($0.390\text{g}/\text{m}^3$), followed by Anthozoa ($0.17\text{g}/\text{m}^3$), Mudskipper ($0.158\text{g}/\text{m}^3$) Gastropoda ($0.07\text{g}/\text{m}^3$) and Shrimp ($0.05\text{g}/\text{m}^3$). Phoronida exhibits the lowest contribution towards the total biomass ($0.0001\text{g}/\text{m}^3$) followed by Lucifer ($0.0003\text{g}/\text{m}^3$).

Wetlands

Among all studied wetlands, BPS exhibited maximum density ($203.17/\text{m}^3$) during the Post-monsoon season whereas NRI exhibited the highest values for density ($63.83/\text{m}^3$) during the Pre-monsoon season.

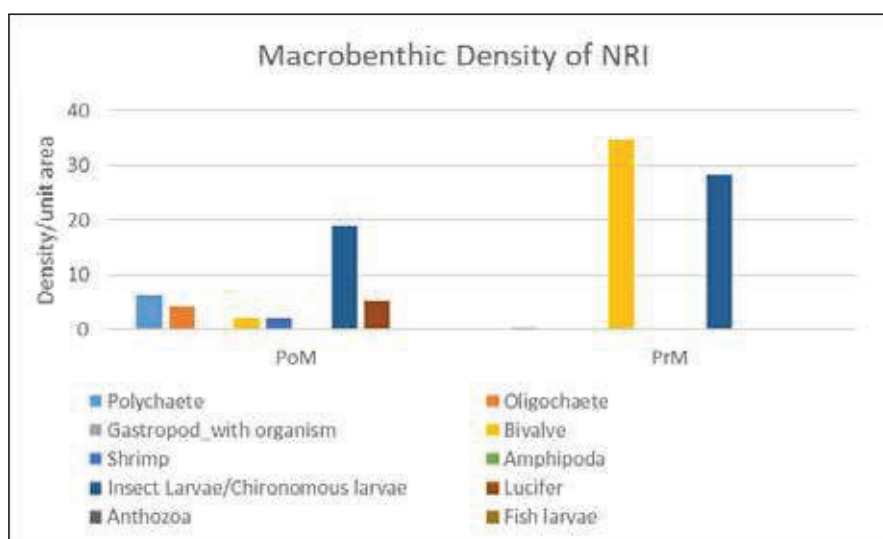


Fig. 34.1: Seasonal variation of macrobenthic density/ m^3 in NRI wetland during the study period 2021–22

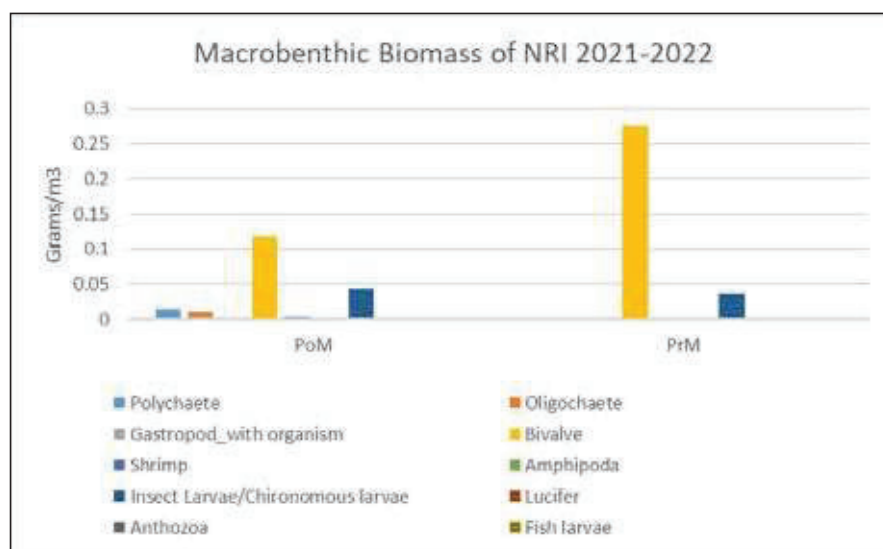


Fig. 34.2: Seasonal variation of macrobenthic biomass g/m^3 in NRI wetland during the study period-2021–22

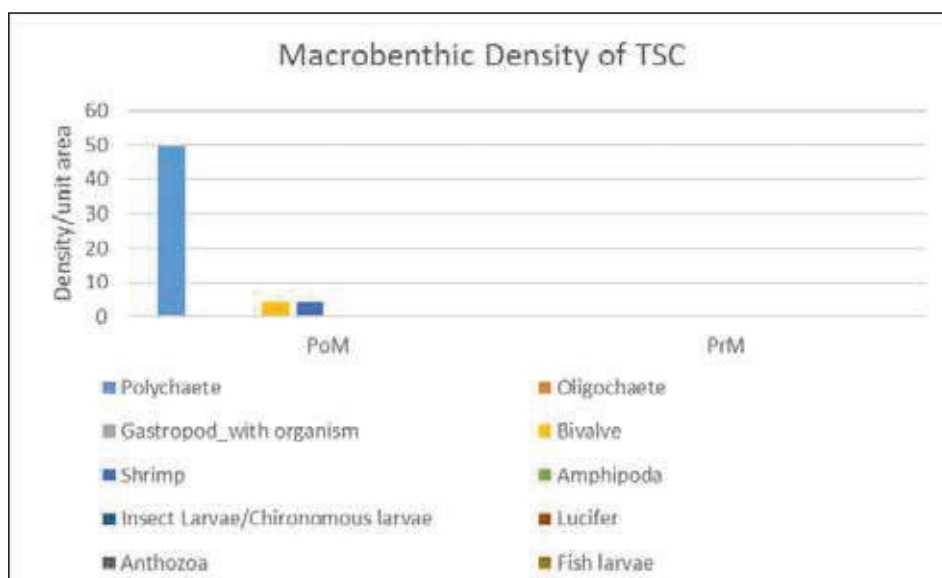


Fig. 35.1: Seasonal variation of macrobenthic density /m³ TSC wetland during the study period- 2021–22

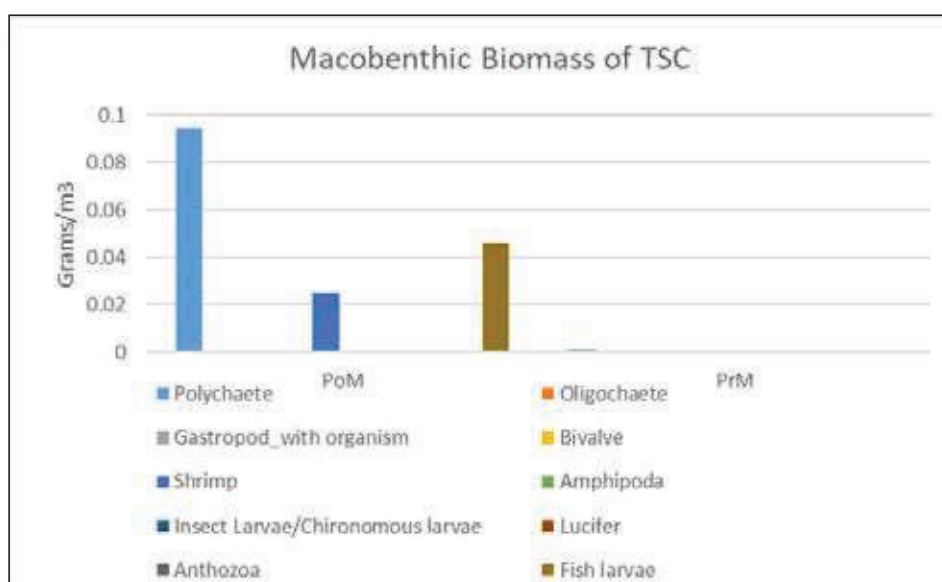


Fig. 35.2: Seasonal variation of macrobenthic biomass g /m³ in TSC wetland the study period- 2021–22

Biomass values were also counted highest at BPS (4.56 g/ m³), during the Post-monsoon season which is found to be contributed majorly by Bivalves. Least values for macrobenthos density were observed at NRI (38.96/ m³) during the Post-monsoon months whereas during the Pre-monsoon months TSC (0.48/ m³) exhibited the least values.

Bhandup Pumping Station (BPS): (Fig.33.1-33.2)

With reference to the season, BPS had exhibited maximum density (203.17/ m³) and minimum biomass (4.56g/ m³) during the post-monsoon season, whereas minimum density (49.75/ m³) and maximum biomass (16.57g/ m³) during the pre-monsoon season. Polychaete (89.43/ m³, 0.25g/ m³) and Bivalve (88.04/m³, 4.10/ m³) contributed majorly to the macrobenthos assemblage. Gastropod (8.13/ m³) was observed only during the pre-monsoon season.

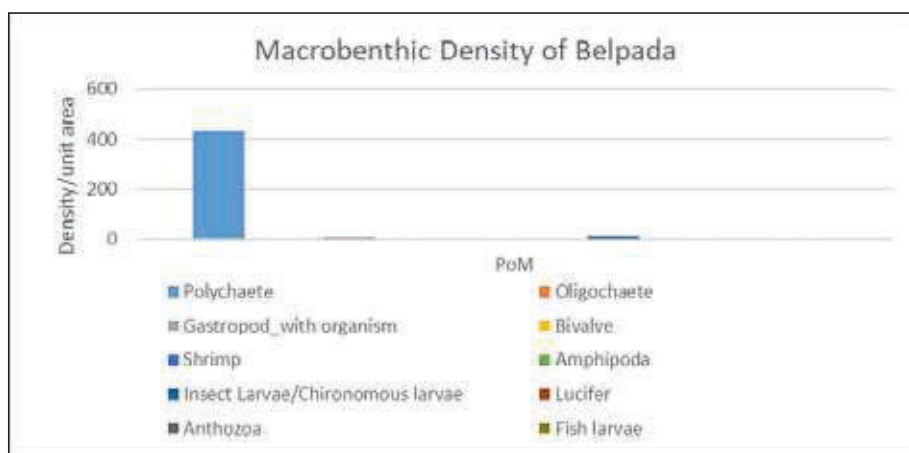


Fig. 36.1: Seasonal variation of macrobenthic density /m³ in Belpada wetlands the study Period - 2021–22

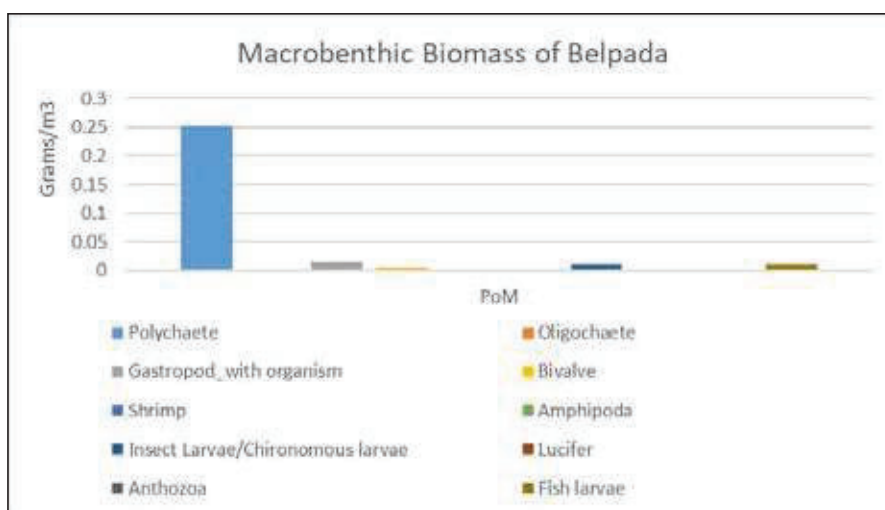


Fig. 36.2: Seasonal variation of microbenthic biomass g/m³ in Belpada wetland during the study period-2021–22

Non-Resident Indian (NRI): (Fig.34.1-34.2)

Pre-monsoon season exhibited increased values of density and biomass (68.83/ m³; 0.32g/ m³) when compared to their Post-monsoon values (38.96/m³; 0.19g/m³). Insect larvae, Oligochaete, Bivalve, Shrimp, Lucifer and Polychaete were recorded from NRI wetland during Post-monsoon season of which only two groups i.e. Insect larvae and Bivalve were observed during the Pre-monsoon season. The most dominating group was Insect larvae (19.00/ m³) during the post-monsoon season and Bivalve (34.92/ m³) during the pre-monsoon season.

Training Ship Chanakya (TSC): (Fig.35.1-35.2)

Macrobenthic density and biomass has shown a gradual decline with season from Post-monsoon (58.63/ m³; 0.17g/ m³). During the Post-monsoon season polychaete (49.79/ m³), shrimp (4.38/ m³) and bivalve (4.17/ m³) were the dominating the group while, during the pre-monsoon season polychaete (0.29/ m³) and amphipod (0.16/ m³) were contributing maximum to the overall density.

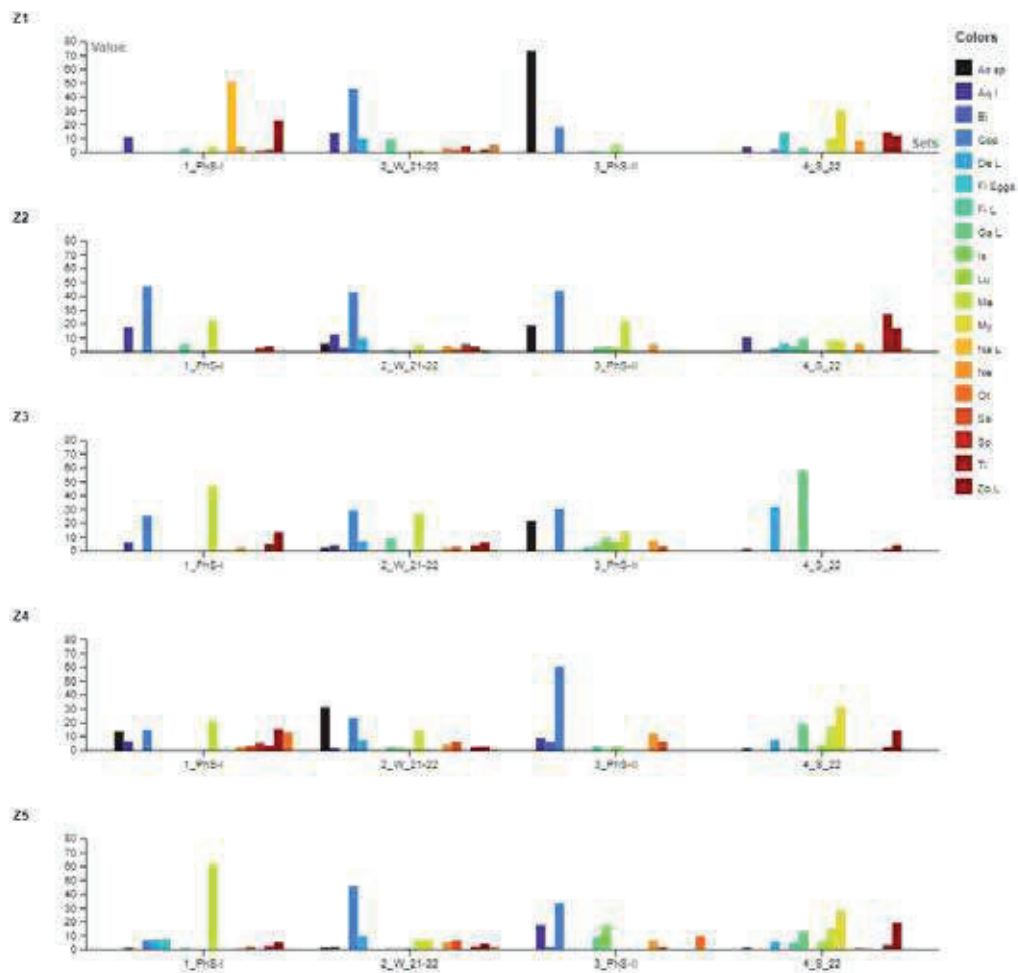


Fig. 37.1: Seasonal Variation in Zooplankton diversity along the five stations of Thane creek during the study period 2021-22

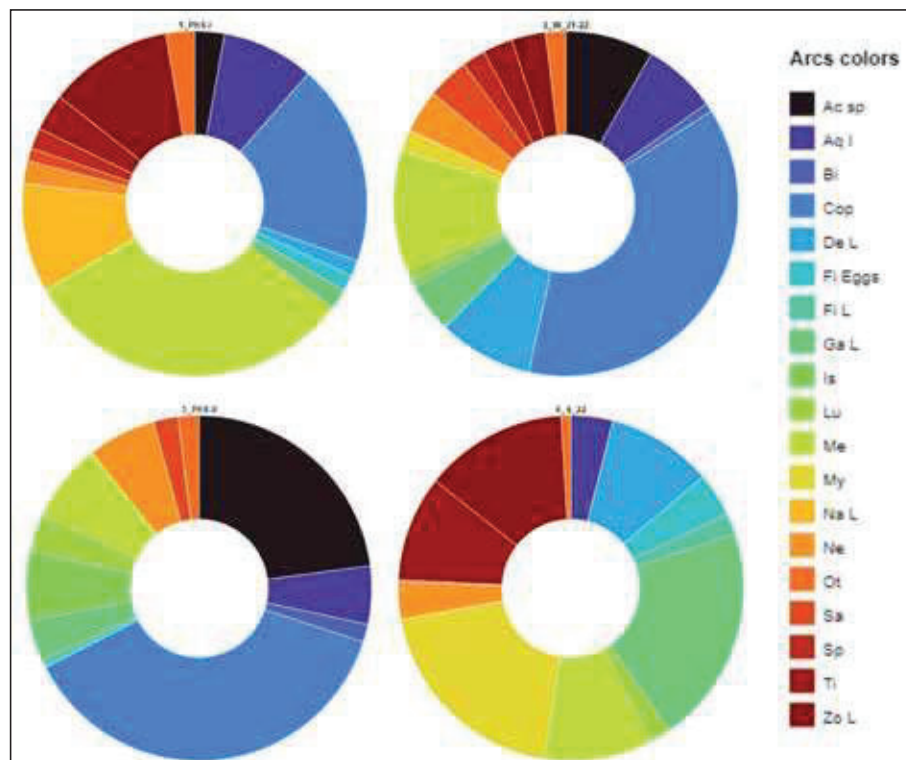


Fig. 37.2: Overall seasonal variation in Zooplankton diversity in Thane Creek during the study period 2021-2022

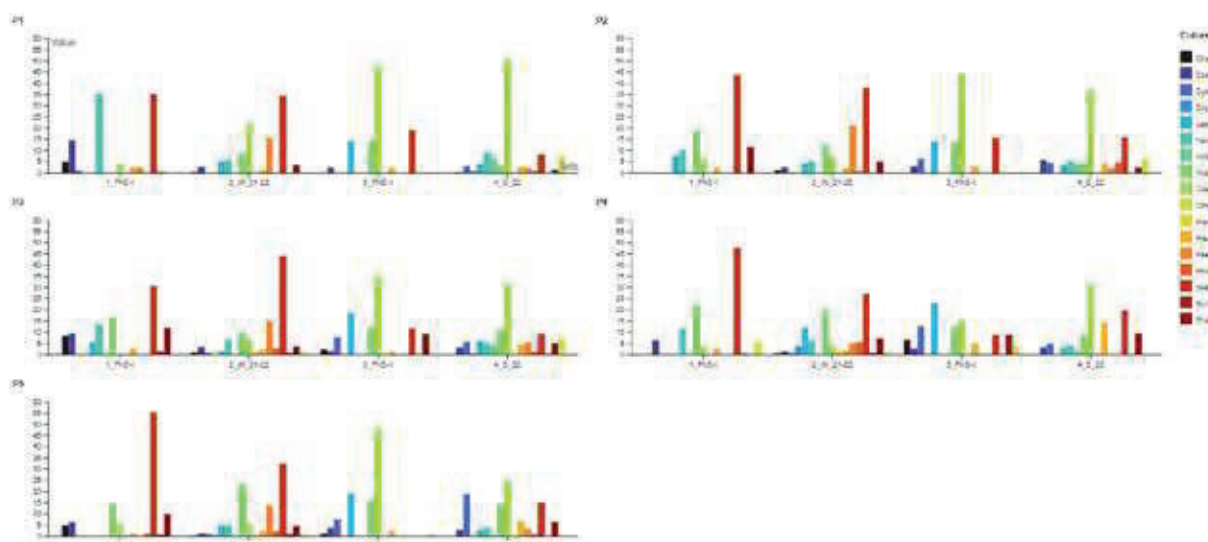


Fig. 38.1: Seasonal Variation in Phytoplankton diversity along the five stations of Thane creek during the study period 2021–22

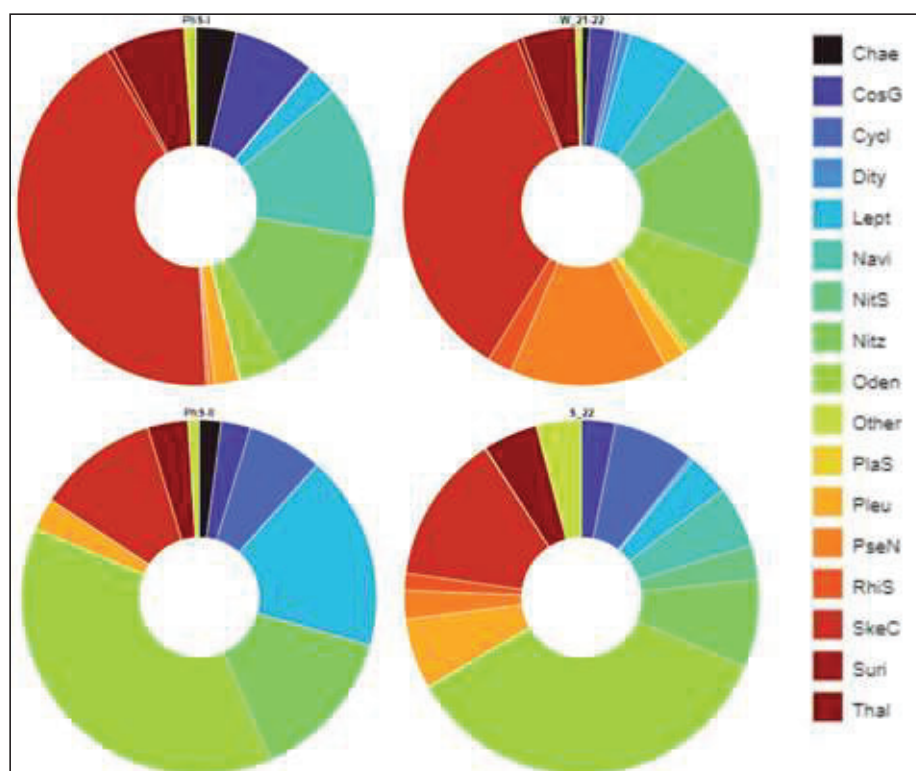


Fig. 38.1: Seasonal Variation in Phytoplankton diversity along the five stations of Thane creek during the study period 2021–22

Belpada: (Fig.36.1-36.2)

Sampling was done only during the post monsoon since the land was dry in the pre-monsoon season. It was observed that Belpada had the maximum faunal diversity as compared to other wetlands (7 No.). There was maximum density (453.34/ m³) observed as compared to the other wetlands. Polychaete (431.97/ m³) was the most dominant group contributing maximum to macrobenthic density followed by insect larvae (9.19/ m³) and Gastropod (8.79/ m³). Polychaete (0.25g/ m³) and Gastropod (0.02g/ m³) were found contributed majorly to the overall biomass values.

Zooplankton (Fig.37.1-37.2)

The Zooplankton standing stock as observed in the present study and the station-wise variations are summarized in the above given graphical representations.

A total of 18 groups of zooplankton were identified in the entire study period. Copepoda was the most dominating group followed by Medusae, *Acetus* sp, Gastropod larvae and Mysida.

Station Z1 shows that the Nauplius larva was the most abundant group in Phase shift I followed by Zoea larva; On the other hand, Nauplius larva was completely absent in Winter, Phase shift II and Summer season. Copepoda was completely absent in Phase shift I, but rather showed a sudden spike in winter season and Phase shift II and was again completely absent in the summer season. *Acetus* sp was abundantly present in Phase shift II and was otherwise absent in all other seasons.

Station Z2 exhibits that Copepoda was most abundant in Phase shift I, winter, Phase shift II and was completely absent in the Summer season. Medusae was second most abundant group in Phase Shift I.

Station Z3 shows that, *Acetus* sp, was completely absent in Phase shift I and showed a sudden increase in abundance in Winter and Phase shift II and was again completely absent in Summer. Aquatic insects were present in all seasons except phase shift two. Nauplius larva was completely absent in all seasons. Tintinida was present in all seasons except Phase shift two.

Station Z4, shows that *Acetus* sp was only present in Phase shift I and winter and was completely absent in Phase shift II and Summer. Nauplius larva was completely absent in all seasons. Copepoda was most abundant in Phase shift two. Copepoda showed a notable increase in abundance from Phase shift I to Phase shift II and was completely absent in Summer. Medusae was present in all seasons, except Phase shift two.

Station Z5 shows that Medusae are most abundant in Phase shift I and showed a sudden decrease in Winter. It was completely absent in Phase shift II and showed a gradual increase in Summer. Nauplius larva was completely absent in all seasons. *Acetus* sp was completely absent in all seasons except Winter. Copepoda was present in all seasons except summer.

In the entire study period, it was observed that Copepoda has the highest species abundance followed by Medusae and *Acetus* sp. Winter showed the most species diversity while Phase shift II showed the least. Nauplius larvae was only present in Phase shift I and completely absent in the following seasons. Medusae was the most dominant group in Phase shift I and it showed a gradual decrease over the following seasons. Lucifer was completely absent in Phase shift I and was present in the next three seasons.

Phytoplankton- (Fig.38.1-38.2)

The phytoplankton composition of Thane creek is summarized, and station wise variations are well elaborated as graphical representations. A total of 19 species of phytoplankton were identified in the entire study period.

During the present study, Station P1 showed that summer season had the most species diversity (14 species) in which *Skeletonema costatum* dominates the first two seasons i.e. Phase Shift-I winter season, followed by *Odontella* sp, which dominates Phase shift II and summer seasons. Phase shift II has the least species diversity. *Coscinodiscus* sp. was present during Phase shift II among all the seasons studied.

For Station P2, maximum diversity was observed during the Summer season with 14 species and the least diversity was observed in Phase Shift-two with only 6 species. *Skeletonema costatum* is the most dominant species during Phase shift I and winter season and *Odontella* sp. is the most abundant species

during Phase shift II and summer seasons. *Chaetoceros sp.* was present only during the winter season. *Coscinodiscus granii* was absent in Phase shift I, appeared during winter and gradually increases until summer. *Pseudo-Nitzschia sp.* was absent in Phase shift I but this species was the second most abundant during the winter season. However, it was not found in Phase shift II and shows a negligible abundance in summer season. *Navicula sp.* was completely absent in Phase Shift II.

Studies of Station P3 show that winter season had the most species diversity whereas the least species diversity was observed in phase shift two. *Skeletonema costatum* shows the most abundance in Phase shift I and winter season, with a slight increase in abundance in winter. While moving from winter season to summer season, *Skeletonema costatum* shows a steep decrease in their abundance. *Odontella sp.* was absent in the Phase shift I and showed an increase in its abundance in winter season and it became the most abundant species in the Phase shift II and summer seasons. *Rhizosolenia setigera* was only present in the winter and summer seasons and winter showed the most abundance.

At Station P4, Winter season showed the high species diversity (15no.) while Phase shift I showed the least (8no.). *Skeletonema costatum* was the most abundant species in the Phase shift I and winter season, however it showed a gradual decrease in the phase shift two and then slight increase in the summer season. *Nitzschia sp* was the second most abundant species in the Phase shift I and winter season, and then showed a gradual decrease in the Phase shift II and summer season. *Chaetoceros sp* was not found in the Phase shift I and summer season, while it showed a minimum abundance in the winter season and Phase Shift II. *Thalassiosira sp.* was absent in Phase shift I and present in other seasons with high abundance.

Station P5, the present study shows most species diversity during the winter (14 no) and the least in Phase shift II (8no.). *Skeletonema costatum* dominates the first two seasons, (Phase shift I and winter seasons), disappeared in Phase shift II and reappeared in the summer season with a moderate abundance. *Odontella sp* was the most abundant species in Phase Shift II and summer season. *Nitzschia sp* was the second most abundant species in Phase shift I and the winter season and then it showed a gradual decrease from winter season to summer season. *Cyclotella sp.* was absent in Phase Shift I and it appeared in winter to summer season with a gradual increase in their abundance.

In the entire study period it was observed that *Skeletonema costatum* has the highest contribution in the assemblage followed by *Odontella sp.*

Phase shift II showed the least species diversity. *Skeletonema costatum* was found to be highest in the first two seasons while it showed a significant decrease for its presence in the next two seasons, whereas *Odontella sp.* had lowest abundance in the first two seasons and it showed drastic increase in abundance in the following seasons. *Nitzschia sigma* was completely absent in the first three seasons, however it showed a slight increase in abundance in Summer. *Navicula* was found to be completely absent in Phase shift two. *Leptocylindrous sp.* Showed a sudden spike in abundance in Phase shift II and again it decreased in the following seasons.

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Appendix 1. Photo Plate

PLATE 1: Sites / Habitats



Belpada Wetland



BPS Wetland



Mankhurd Saltpans



NRI Wetland



Sewri Construction site



TSC wetland

PLATE 2: Congregation of migratory birds at study sites



Congregation of Black-tailed Godwit



Congregation of Lesser Sandplover, Little Stints, Curlew Sandpiper and
Kentish Plovers at Mankhurd Salt pans



Flock of gulls



Flock of Lesser Whistling ducks at Thane Creek



foraging of Waders, Greater Flamingos and Lessere Flamingos on exposed intertidal
Mudflat of Thane Creek



Lesser Flamingos feeding at Thane Creek

PLATE 3: Migratory and resident birds at study sites



Eurasian curlew at TSC wetland



Ruddy turnstone at Vashi mudflats of Thane Creek



Long-toed stint with Temminck's stint(1)



White stork in Thane Creek



Black-tailed godwit near Ghansoli mudflats



Greater flamingo at Vashi mudflats



Grey heron at Sewri mudflat



Painted stork at Vashi mudflat of Thane Creek



Western Reef Egret at Nhava-Sheva

PLATE 4: Bird ringing and recoveries



Tagged Lesser sandplover feeding at Vashi mudflat



Tagged Curlew sandpiper



Setting traps for waders mankhurd saltpan



Bird banding session at BPS

PLATE 5: Some raptors observed in the study area



Brahminy kite at Nhava-Sheva



Western Marsh Harrier at BPS



Osprey in flight in Thane Creek

Appendix 2- Checklist of birds recorded from Oct 2021-May 2022

COMMON NAME	SCIENTIFIC NAME	IUCN STATUS	STATUS	BPS	BEL	NRI	TSC	Kha	Man	TC	SEW	NS
Anatidae												
Lesser Whistling Duck	<i>Dendrocygna javanica</i>	LC	M					+		+		
Indian Spot-billed Duck	<i>Anas poecilorhyncha</i>	LC	R	+	+	+	+	+		+		
Northern Shoveler	<i>Spatula clypeata</i>	LC	M	+		+		+		+		
Northern Pintail	<i>Anas acuta</i>	LC	M	+		+		+		+		
Garganey	<i>Spatula querquedula</i>	LC	M			+	+	+		+		
Cotton pygmy goose	<i>Nettapus coromandelianus</i>	LC	M			+						
Common Teal	<i>Anas crecca</i>	LC	M	+		+	+	+		+		
Ruddy Shelduck	<i>Tadorna ferruginea</i>	LC	M	+	+		+			+		
Eurasian widgeon	<i>Mareca penelope</i>	LC	M			+				+		
Gadwall	<i>Mareca strepera</i>	LC	M					+				
Red-Crested Pochard	<i>Netta rufina</i>	LC	M		+							
Podicipedidae												
Little Grebe	<i>Tachybaptus ruficollis</i>	LC	R	+		+		+				
Ciconiidae												
White Stork	<i>Ciconia ciconia</i>	LC								+		
Painted Stork	<i>Mycteria leucocephala</i>	NT	R	+	+	+	+	+	+	+	+	+
Phoenicopteridae												
Greater Flamingo	<i>Phoenicopterus roseus</i>	LC	M	+	+	+	+			+	+	+
Lesser Flamingo	<i>Phoeniconaias minor</i>	NT	M	+		+	+			+	+	+
Threskiornithidae												
Black-headed Ibis	<i>Threskiornis melanocephalus</i>	NT	R	+	+	+	+	+		+	+	+

Appendix 2- Checklist of birds recorded from Oct 2021-May 2022

COMMON NAME	SCIENTIFIC NAME	IUCN STATUS	STATUS	BPS	BEL	NRI	TSC	Kha	Man	TC	SEW	NS
Glossy Ibis	<i>Plegadis falcinellus</i>	LC	M	+		+	+	+		+		
Eurasian Spoonbill	<i>Platalea leucorodia</i>	LC	M	+	+	+	+			+		
Ardeidae												
Indian Pond Heron	<i>Ardeola grayii</i>	LC	R	+	+	+	+	+	+	+	+	+
Grey Heron	<i>Ardea cinerea</i>	LC	R	+	+	+	+	+	+	+	+	+
Purple Heron	<i>Ardea purpurea</i>	LC	R		+	+	+	+	+	+	+	
Green-backed Heron	<i>Butorides striata</i>	LC	R						+	+		
Cattle Egret	<i>Bubulcus ibis</i>	LC	R					+		+		
Great White Egret	<i>Ardea alba</i>	LC	R	+	+		+	+		+	+	+
Intermediate Egret	<i>Ardea intermedia</i>	LC	R	+	+	+	+	+	+	+	+	+
Little Egret	<i>Egretta garzetta</i>	LC	R	+	+	+	+	+	+	+	+	+
Western Reef Egret	<i>Egretta gularis</i>	LC	R	+	+	+	+	+	+	+	+	+
Phalacrocoracidae												
Little Cormorant	<i>Microcaro niger</i>	LC	R	+	+	+	+	+	+	+		+
Indian cormorant	<i>Phalacrocorax fuscicollis</i>	LC	R				+	+				
Great cormorant	<i>Phalacrocorax carbo</i>	LC	R				+					
Accipitridae												
Shikra	<i>Accipiter badius</i>	LC	R		+							
Black Kite	<i>Milvus migrans</i>	LC	R	+	+	+	+	+	+	+	+	
Western Marsh Harrier	<i>Circus aeruginosus</i>	LC	M	+	+	+	+			+		
Greater Spotted Eagle	<i>Clanga clanga</i>	VU	M							+		
Brahminy Kite	<i>Heliastur indus</i>	LC	R	+		+	+		+	+		+

Appendix 2- Checklist of birds recorded from Oct 2021-May 2022

COMMON NAME	SCIENTIFIC NAME	IUCN STATUS	STATUS	BPS	BEL	NRI	TSC	Kha	Man	TC	SEW	NS
Booted Eagle	<i>Hieraaetus pennatus</i>	LC	M								+	
Oriental honey buzzard	<i>Pernis ptilorhynchus</i>	LC	R				+					
Pandionidae												
Osprey	<i>Pandion haliaetus</i>	LC	M				+			+		
Rallidae												
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	LC	R				+	+		+		
Common Coot	<i>Fulica atra</i>	LC	R	+		+	+	+		+		
Recurvirostridae												
Black-winged Stilt	<i>Himantopus himantopus</i>	LC	R	+	+	+	+	+	+	+		
Pied Avocet	<i>Recurvirostra avosetta</i>	LC	M	+		+	+			+		
Charadriidae												
Red-wattled Lapwing	<i>Vanellus indicus</i>	LC	R	+	+	+	+	+	+	+		
Pacific Golden Plover	<i>Pluvialis fulva</i>	LC	M	+	+		+	+		+		
Grey Plover	<i>Pluvialis squatarola</i>	LC	M	+	+	+	+		+	+	+	
Little Ringed Plover	<i>Charadrius dubius</i>	LC	M	+	+				+			+
Kentish Plover	<i>Charadrius alexandrinus</i>	LC	M	+	+				+	+		
Common ringed Plover	<i>Charadrius hiaticula</i>	LC	M						+			
Greater Sand Plover	<i>Charadrius leschenaultii</i>	LC	M	+								
Lesser Sand Plover	<i>Charadrius mongolus</i>	LC	M	+	+		+	+	+	+	+	+
Scolopacidae												
Ruff	<i>Calidris pugnax</i>	LC	M	+	+			+				
Common Snipe	<i>Gallinago gallinago</i>	LC	M	+	+	+	+	+				

Appendix 2- Checklist of birds recorded from Oct 2021-May 2022

COMMON NAME	SCIENTIFIC NAME	IUCN STATUS	STATUS	BPS	BEL	NRI	TSC	Kha	Man	TC	SEW	NS
Black-tailed Godwit	<i>Limosa limosa</i>	NT	M	+	+		+	+		+	+	
Bar-tailed Godwit	<i>Limosa lapponica</i>	NT	M	+			+			+		
Whimbrel	<i>Numenius phaeopus</i>	LC	M		+							
Eurasian Curlew	<i>Numenius arquata</i>	NT	M	+	+	+	+		+	+	+	+
Common Redshank	<i>Tringa totanus</i>	LC	M	+	+	+	+	+	+	+	+	+
Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC	M	+	+	+	+	+	+	+	+	
Common Greenshank	<i>Tringa nebularia</i>	LC	M	+	+	+	+	+	+	+	+	+
Green sandpiper	<i>Tringa ochropus</i>	LC	M				+		+	+	+	+
Wood Sandpiper	<i>Tringa glareola</i>	LC	M	+	+	+	+	+	+	+		
Terek sandpiper	<i>Xenus cinereus</i>	LC	M	+				+		+		
Common Sandpiper	<i>Actitis hypoleucos</i>	LC	M	+	+	+	+	+	+	+	+	+
Ruddy Turnstone	<i>Arenaria interpres</i>	LC	M				+		+		+	
Red Knot	<i>Calidris canutus</i>	NT	M						+	+		
Great knot	<i>Calidris tenuirostris</i>	EN	M	+		+	+					
Long toed Stint	<i>Calidris subminuta</i>	LC	M						+			
Little Stint	<i>Calidris minuta</i>	LC	M	+	+	+	+	+	+	+	+	+
Temminck's Stint	<i>Calidris temminckii</i>	LC	M	+					+			
Curlew Sandpiper	<i>Calidris ferruginea</i>	NT	M	+	+		+		+	+	+	+
Dunlin	<i>Calidris alpina</i>	LC	M	+					+	+		
Broad-billed Sandpiper	<i>Calidris falcinellus</i>	LC	M	+			+	+	+	+		
Laridae												
Lesser Black Backed Gull	<i>Larus fuscus</i>	LC	M					+		+		
Pallas's Gull	<i>Larus ichthyæetus</i>	LC	M	+				+		+		

Appendix 2- Checklist of birds recorded from Oct 2021-May 2022

COMMON NAME	SCIENTIFIC NAME	IUCN STATUS	STATUS	BPS	BEL	NRI	TSC	Kha	Man	TC	SEW	NS
Brown-headed Gull	<i>Larus brunnicephalus</i>	LC	M	+	+	+	+	+		+	+	+
Black-headed Gull	<i>Larus ridibundus</i>	LC	M	+		+	+	+		+	+	+
Slender-billed Gull	<i>Larus genei</i>	LC	M	+			+	+		+		
Common Gull-billed Tern	<i>Gelochelidon nilotica</i>	LC	M	+	+	+	+	+		+	+	+
Caspian Tern	<i>Hydroprogne caspia</i>	LC	M	+		+	+	+		+	+	
Common Tern	<i>Sterna hirundo</i>	LC	M							+		
River tern	<i>Sterna aurantia</i>	VU	M	+		+		+				
Little Tern	<i>Sternula albifrons</i>	LC	M	+				+		+		
Saunders's Tern	<i>Sternula saundersi</i>	LC	M				+		+			
Whiskered Tern	<i>Chlidonias hybrida</i>	LC	M	+	+	+	+			+	+	+
Alcedinidae												
White-breasted Kingfisher	<i>Halcyon smyrnensis</i>	LC	R	+	+	+	+	+	+	+		+
Common Kingfisher	<i>Alcedo atthis</i>	LC	R	+	+	+	+	+		+		
Black Capped Kingfisher	<i>Halcyon pileata</i>	VU	R					+		+		
Jacaniidae												
Phasant-tailed Jacana	<i>Hydrophasianus chirurgus</i>	LC	R							+		
Rostratulidae												
Greater painted snipe	<i>Rotratula benghalensis</i>	LC	R						+			
Motacillidae												
Grey Wagtail	<i>Motacilla cinerea</i>	LC	M						+			

R/M = Resident / Migratory, BPS = Bhandup pumping station, BEL = Belpada, NRI = Non-residential Indian Complex, TSC = Training Ship Chanakya, Kha = Kharghar, Man = Mankhurd TC = Thane Creek, SEW = Sewri, NS = Nhava-Sheva, LC = Least Concerned, VU = Vulnerable, NT = Near Threatened.

CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED

(CIN - U99999 MH 1970 SGC - 014574)

REGD. OFFICE:
 "NIRMAL", 2nd Floor, Nariman Point,
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PHONE : 00-91-22-6650 0900

FAX : 00-91-22-2202 2509

HEAD OFFICE:
 CIDCO Bhavan, CBD Belapur,
 Navi Mumbai - 400 614.

PHONE: 00-91-22-6791 8100

FAX : 00-91-22-6791 8166

Ref. No. NO.CIDCO/Hort/2019/191

Date : 25.11.2019

To,

 Shri. G.G.Ddeshpande,
 Executive Engineer (MMRDA),
 Mumbai Trans Harbour Link (MTHL),
 Bandra Kurla Complex, Bandra East,
 Mumbai - 400051.

Sub: - Permission for removal of existing trees falling in the alignment of construction of Mumbai Trans Harbour Link (MTHL) Project (CH.18+187-CH.19+607KM and CH.20+087-CH.21+800KM) on Navi Mumbai side.

Ref:- MTHL/CIDCO/Tree Removal Permission/19/012/MTHL dt.14.05.2019

Sir,

With reference to above it is to inform that your request for removal of 348 no of trees falling in the alignment of construction of Mumbai Trans Harbour Link (MTHL) Project (CH.18+187-CH.19+607KM and CH.20+087-CH.21+800KM) on Navi Mumbai side has been considered by the Tree Authority under section 8(3) of the Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 & rules called the Maharashtra (Urban Areas) Protection and Preservation of Tree rules - 2009 & amendment up to 2016 subject to the following conditions:

- 1) The Tree Authority Committee of CIDCO has granted the permission to cut 266 no of existing trees and to transplant 82 no of existing trees. You should retain 504 no of existing trees. The details are as below;

Sr. No	Description	Tree no.
1	Trees to be cut	1, 3, 4, 5, 6, 7, 8, 9, 12, 13, 15, 16, 17, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 59, 66, 67, 80, 90, 101, 102, 103, 104, 105, 118, 119, 120, 121, 123, 143, 144, 147, 148, 149, 150, 151, 153, 156, 157, 158, 159, 162, 165, 166, 173, 174, 175, 176, 177, 178, 179, 186, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 225, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 277, 278, 279, 289, 325, 327, 330, 336, 346, 350, 355, 356, 363, 367, 382, 384, 385, 386, 387, 389, 390, 391, 401, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436,

In case of any corruption related complaints, please visit :

cidco.maharashtra.gov.in / CIDCO VIGILANCE MODULE NEW / Userlogin.aspx

1/3

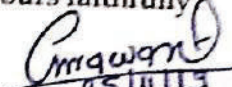
		437, 438, 439, 440, 441, 444, 445, 447, 449, 450, 451, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 496, 497, 498, 499, 500, 501, 503, 504, 517, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 597, 599, 600, 601, 602, 603, 604, 624, 627, 628, 637, 639, 640, 641, 642, 643, 644, 658, 659, 661, 662, 663, 667, 678, 679, 680, 682, 683, 684, 688, 696, 698, 699, 700, 701, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 715, 730, 731, 744, 745, 754, 756, 758, 760, 761, 762, 773, 775, 776, 778, 779, 780, 783, 784, 785, 786, 787, 789, 790, 792, 793, 794, 795, 797, 824, 825, 826, 827, 831, 832.
2	Trees to be Transplant	2, 14, 19, 20, 21, 58, 65, 68, 79, 91, 122, 152, 154, 155, 160, 161, 163, 164, 274, 275, 276, 324, 326, 328, 329, 331, 332, 333, 334, 335, 347, 348, 349, 354, 357, 364, 365, 366, 383, 388, 413, 448, 452, 598, 638, 647, 660, 664, 665, 666, 668, 669, 670, 671, 672, 675, 676, 677, 681, 685, 686, 687, 689, 690, 691, 692, 693, 694, 695, 697, 702, 714, 732, 743, 755, 757, 759, 777, 781, 788, 791, 796.
3	Trees to be Retain	10, 11, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 60, 61, 62, 63, 64, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 81, 82, 83, 84, 85, 86, 87, 88, 89, 92, 93, 94, 95, 96, 97, 98, 99, 100, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 124, 125, 126, 128, 129, 130, 131, 132, 133, 135, 136, 137, 138, 139, 140, 141, 142, 145, 146, 167, 168, 169, 170, 171, 172, 180, 181, 182, 183, 184, 185, 187, 188, 189, 190, 191, 192, 193, 194, 218, 219, 220, 221, 222, 223, 224, 226, 227, 228, 229, 230, 231, 232, 233, 234, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 280, 281, 282, 283, 284, 285, 286, 287, 288, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 337, 338, 339, 340, 341, 342, 343, 344, 345, 351, 352, 353, 358, 359, 360, 361, 362, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 392, 393, 394, 395, 396, 397, 398, 399, 400, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 442, 443, 446, 453, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 502, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 605, 606, 607, 608, 609, 610, 611, 612, 615, 616, 617, 618, 619, 620, 621, 622, 623, 625, 626, 629, 630, 631, 632, 633, 634, 635, 636, 645, 646, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 673, 674, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 746, 747, 748, 749, 750, 751, 752, 753, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 774, 782, 798, 799, 800, 801, 802, 803, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 828, 829, 830, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858.

- 2) As per the provision under Section 8(3) (a) of the said Act, you are hereby directed that no tree shall be cut/transplanted until fifteen days (15) after the permission is given by the Tree Authority.

- 3) It is mandatory on your part to plant 2 no of trees against each tree to be cut. As per the provision of Maharashtra (Urban Areas) Protection and Preservation of Trees (amendment) Act, 2016 the new trees shall be plant within fifteen days from the date of tree (s) is felled.
- 4) You have to plant 532 no of new trees (against cutting of 266 no of trees) & to transplant 82 no of existing trees at Survey No. 347, Village- Gavhan, Tal-Uran, Dist-Raigad. While planting trees, suitable distance should be kept from the boundary of the plots, so that the newly planted trees will not obstruct the construction of compound wall or any other civil structure in future.
- You shall maintain & protect the new tree plantation (532 no of trees) and transplanted trees (82 no of existing trees) for the period of three years & care should be taken so that tree grows properly & give a report to the tree officer about the condition of these trees once in six months for a period of three years as per the form - G under section 9(2).
- 5) Your attention is kindly drawn to the provisions under section of 21 of the Maharashtra (Urban Areas) Protection & Preservation of Trees Act. 1975, as modified on 9th June, 2004.
- 21 (1) Whoever fells any tree or causes any tree to be felled in contraventions of the provision of the Act or without reasonable excuse fails to comply with any order issued or condition imposed by the Tree Officer or the Tree Authority or voluntarily obstructs and member of the Tree Authority or the Tree Officer or any officers and Servants subordinate to him in the discharge of their functions under this Act. Shall, on convection, be punished with the fine of not less than one thousand rupees which may extend up to five thousand rupees for every offence and also with imprisonment for a term of not less than one week, which may extent up to one year.
- (3) The felling or causing of felling of each tree without the Permission of The Tree Authority shall constitute a separate offence.
- 6) At the time of transplanting or cutting of trees, if any social problem occurs, you will have to resolve the same at your end.
- 7) You shall submit the report for Cutting and transplantation of the trees carried out to Tree officer, CIDCO.
- 8) Tree authority Committee, CIDCO has granted the permission for removal of 348 no of trees (To Cut 266 nos and to transplant 82 nos). At the time of actual execution of work, applicant Executive Engineer, MTHL Project, MMRDA should take care to remove only those trees which are falling in alignment of construction activities.
- 9) The said permission is valid only up to 90 days from the receipt thereof.

Thanking You.

Yours faithfully


Tree Officer

(Tree Authority Committee, CIDCO)

No. MTHL-PIU/GC/Tree permission/1507/12-2020

Date : 30th December 2020

To,

The Engineer, General Consultant

AECOM Asia Company Ltd. - PADECO Co. Ltd. - DAR Al-Handasah
Consultants (Share & Partners)- T.Y.Lin International (Consortium),
A-Wing, 6th Floor, Old MMRDA Building,
Bandra Kurla Complex, Bandra (East), Mumbai – 400051

Sub :- Mumbai Trans Harbour Link Project (MTHL)

- Permission for Removal of Tree Coming In The Proposed construction of Mumbai Harbour Link Project (Package 1) 10.380 Km long bridge section (CH-0+000 – Ch- 10+380) across The Mumbai bay including Sewri F/South' Ward.

Ref : Letter from Tree Authority, MCGM DySG/C/27/Prop dated 24th December 2020.

Sir,

MMRDA is in receipt of Permission letter for Removal of Tree for Package 1 of Mumbai Harbour Link Project.

The copy of letter alongwith duely signed drawing by MCGM officials is enclosed herewith for further necessary action please.

This letter is issued with the approval of the Chief Engineer.

Thanking you

Encl: MCGM permission letter & drawing

Yours faithfully,



(A.R. Bhisikar)

Executive Engineer, MTHL-PIU

Copy to: Project Manager, L&T –IHI Consortium MTHL Pkg-1, Project office, Gate no.1, Sewri Timber Pond (STP) Yard, Near Gadi Adda , Sewti (E), Mumbai 400015 for necessary action please.

Mumbai Metropolitan Region Development Authority

Bandra-Kurla Complex, Bandra East, Mumbai 400 051

T +91 22 2659 1234 **EPABX** +91 22 2659 0001 / 4000 F +91 22 2659 1112 / 1264

<https://mmrda.maharashtra.gov.in>

Office of the Supdt. of Gardens
Veermata Jijabai Bhosale Udyan.
Penguin Building, 2nd Floor
Dr. Ambedkar Road, Byculla (East).
Mumbai-400 027.

DySG/C/27 ~~IF-1/13/1/06/AMC~~
24/12/2020

Additional Metropolitan Commissioner (MMRDA)
Bandra - Kurla Complex,
Bandra (E), Mumbai - 400051

Sub : Permission for Removal Of Trees Coming In The Porposed Construction
Of Mumbai Line Project (Package - 1) - 10.380 km Long Bridge Section
(CH-0+000-CH-10+380) Across The Mumbai Bay Including Sewri In
'F/South' Ward.

Sr. Madam,

Please refer to your letter No. MMRDA/MTHL-PIU/L&T-IHL/Tree Proposal-Pkg-1/107/07-2018
dt. 18.06.2018 for Permission for Removal Of Trees Coming In The Porposed Construction Of
Mumbai Line Project (Package - 1) - 10.380 km Long Bridge Section (CH-0+000-CH-10-380)
Across The Mumbai Bay Including Sewri In 'F/South' Ward. Mumbai. has been considered by the Tree
Authority under Section 8(3) of The Maharashtra (Urban Areas) Protection & Preservation of Trees Act
1975, as modified up to January 2018.

Hence . You are hereby directed to plant 840 nos trees in lieu of Cutting 420 (Four Hundred
Twenty) trees (Tree no.- 19, 22 to 25, 34, 35, 39, 40, 44, 45, 51, 52, 57, 58, 61, 63, 67, 71, 72, 74, 75,
78, 80 to 82, 87, 91, 92, 101, 104, 106, 108, 110 to 112, 113, 118, 121 to 124, 128, 130, 137, 140, 141,
143 to 152, 154 to 159, 161 to 165, 167 to 177, 179 to 186, 188 to 196, 199, 201 to 205, 207 to 230,
232 to 234, 236, 238, 239, 241, 242, 244, 245, 249, 250, 253, 256 to 261, 267, 269, 272, 274 to 290,
292, 293, 295 to 300, 302, 307 to 311, 314, 319, 321, 324, 325, 327, 328, 330 to 333, 336 to 342, 345,
347, 350 to 360, 363 to 367, 370 to 381, 384, 385, 389, 391, 391A, 392, 396, 399, 431, 432, 435, 443,
448, 450, 451, 458, 459, 461, 462, 463, 465, 466, 467, 469 to 472, 477, 478, 484 to 487, 493, 499, 502,
504 to 509, 517, 521, 524 to 538, 541 to 543, 545, 547, 549 to 551, 553, 557, 561, 563 to 565, 568,
570, 575, 579, 580, 584, 591, 595, 609, 618 to 620, 623 to 626, 629, 630, 633, 634, 636, 660, 668, 67,
674 to 676, 678, 679, 683, 699, 704, 705, 709, 710, 713, 716, 719, 766, 768, 779, 781, 783, 785,
787, 790, 793, 833, 842, 913, 916, 918, 920, 921, 928, 929, 934, 936, 941, 942, 947 to 949, 952, 955,
960, 962 to 965, 976, 979, 981, 986, 988, 989, 996, 997, 1001, 1007 to 1009, 1011, 1014, 1023, 1046,
1061 to 1064, 1066, 1072, 1073, 1079, 1082 to 1084, 1090, 1094, 1095, 1097, 1132, 1137 to 1146,
1149 to 1152, 1154, 1158,) within 15 days from the execution of tree cutting, Transplant 526 (Five
Hundred Twenty Six) trees (Tree no.- 04, 33, 36 to 38, 41 to 43, 46 to 50, 53 to 56, 59, 60, 62, 64 to 66,
68 to 70, 73, 76, 77, 79, 83 to 86, 88 to 90, 93 to 100, 102, 103, 105, 107, 109, 112A, 114 to 117, 119,
120, 123 to 127, 129, 131 to 136, 138, 139, 142, 153, 160, 166, 178, 187, 197, 198, 200, 206, 231, 235,
237, 240, 243, 246 to 248, 251, 252, 254, 255, 262 to 266, 268, 270, 271, 273, 291, 294, 301, 303 to
306, 312, 313, 315 to 318, 320, 322, 323, 326, 329, 334, 335, 343, 344, 346, 348, 349, 361, 362, 368,
369, 382, 383, 386 to 388, 390, 393 to 395, 397, 398, 40 to 402, 481, 482, 491, 492, 494 to 498, 500,
501, 503, 510 to 516, 518 to 520, 522, 523, 539, 540, 544, 546, 548, 552, 554 to 556, 558 to 560m,
562, 566, 567, 569, 571 to 574, 576 to 578, 581 to 583, 585 to 590, 592 to 594, 608, 610 to 612, 614,
615, 621, 622, 627, 628, 631, 632, 635, 663 to 665, 667, 669, 670, 673, 677, 680, 681, 682, 684 to 693,
693A, 694 to 698, 700 to 703, 706 to 708, 711, 712, 714, 715, 716A, 716B, 717, 718, 720 to 765,
765A, 767, 769 to 778, 780, 782, 783, 786, 788, 789, 791, 792, 794 to 800, 800A, 801 to 825, 825A,
826, 826A, 827 to 832, 834 to 841, 843 to 848, 911, 911A, 912, 914, 915, 917, 919, 922 to 927, 930 to
933, 935, 937 to 940, 943 to 946, 950, 951, 953, 954, 956, 957, 958, 959, 961, 966, 967, 968, 969, 970,
971, 972, 973, 974, 975, 977, 978, 980, 982, 983, 984, 985, 987, 990, 991, 992, 993, 994, 995, 998,
999, 1000, 1002, 1003, 1004, 1005, 1005A, 1006, 1010, 1012, 1013, 1015, 1016, 1017, 1018, 1019,
1020, 1021, 1022, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036,
1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1052, 1053,
1054, 1055, 1056, 1057, 1058, 1059, 1060, 1065, 1067, 1068, 1069, 1070, 1071, 1074, 1075, 1076,
1077, 1078, 1080, 1081, 1085, 1086, 1087, 1088, 1089, 1091, 1092, 1093, 1096, 1098, 1133, 1134,
1135, 1136, 1141, 1153, 1155, 1156, 1157,) is sanctioned by the Tree Authority's vide its Resolution
no. 05 dt. 02.12.2020.

As per the provision under Section 8 (3) (a) of the said Act, you are hereby directed that no tree
shall be cut/ transplant until fifteen days (15) after the permission is given by the Tree Authority. And
also you are requested to inform the Jr. Tree officer / Hort. Asstt. of concern ward about the date and
time of cutting of trees as per permission, so that the representative of this office will remain present to
ensure the work carried out properly Jr. Tree office 'F/South' ward whose Page 504 of 535
Hort. Asstt. F/South Ward 9-05583650.

You are further requested to execute the work of cutting / Transplanting of trees phase wise and when required.

The remaining **226** (Two Hundred Twenty Six) trees (01, 02, 03, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 26, 27, 28, 29, 30, 31, 32, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 433, 434, 436, 437, 438, 439, 440, 441, 442, 444, 445, 446, 447, 449, 452, 453, 454, 455, 456, 457, 460, 464, 468, 473, 474, 475, 476, 479, 480, 483, 488, 489, 490, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 613, 616, 617, 637, 638, 638A, 638B, 639 to 662, 849 to 910, 1099; 1101, 1101A, 1100, 1102, 1103, 1104 to 1128, 1129, 1130, 1131) shall be **Retained** as it is , as per plan attached.

Whoever fells any tree or causes any tree to be felled in contraventions of the provisions of the Act or without reasonable excuse fails to comply with any order issued or condition imposed by the Tree Officer or the Tree Authority or voluntarily obstructs any member of the Tree Authority or the Tree Officer or any Officers and Servants subordinate to him in the discharge of their functions under this Act, shall, on conviction, be punished with the fine of not less than one thousand rupees which may extend up to five thousand rupees for every offense and also with imprisonment for a term of not less than one week. Which may extent up to one year. The felling or causing of felling of each tree without the permission of the Tree Authority shall constitute a separate offense.

As per provision under section 19 (b) you are directed to plant trees in open spaces as well as R.G. Area as per the norms of Tree Authority before getting occupation /completion certificate of the constructed propose work.

As per direction of the Tree Authority, you are hereby directed to submit the photographs taken while transplanting of trees and the C.D. of the transplantation of the trees, you are also requested to plant indigenous variety of trees having circumference of 6" above and height of 10'-12' above. The list of indigenous variety of trees is enclosed herewith for your ready reference and compliance.

Thanking you.

Yours faithfully,


Supdt. of Gardens
& Tree Officer



MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

मुंबई महानगर प्रदेश विकास प्राधिकरण

No. ED/MTHL/CRZ Clearance/publish/16

Engineering Division
Dt. 29th Jan 2016

To,
Additional Chief Secretary (Environment)
Environment Department,
Govt. of Maharashtra,
Mantralaya, Mumbai - 400 032

Sub: Mumbai Trans Harbour Link (MTHL) project
- CRZ Clearance reg.

Ref : Ministry of Environment, Forest and Climate Change, Govt of India letter No.
F.No.11-65/2012-IA.III Dt. 25th January 2016

Sir,

Ministry of Environment, Forest and Climate Change, vide letter referred above, has accorded CRZ clearance to the Mumbai Trans Harbour Link (MTHL) project. The copy of the clearance is submitted herewith for your information for ready reference.

Thanking you,

Yours faithfully,

(P.D. Mamdapure)
(P.D. Mamdapure)
Engineer-in-Chief

Encl: Copy of CRZ clearance letter

Copy submitted to

The Member Secretary, Maharashtra Pollution Control Board, Sion (E), Mumbai with a request to publish the CRZ Clearance on your website.

Copy submitted for information to,

1. The Secretary (Forest), Revenue & Forest Dept, Govt. of Maharashtra, Mantralaya, Mumbai

Encl: Copy of CRZ clearance letter

2. The Chairman, Maharashtra Coastal Zone Management Authority, Mumbai

Encl: Copy of CRZ clearance letter

3. The Director, Bombay Natural History Society, Hornbill house, Dr. Salim Ali Chowk, Shaheed Bhagat Singh Road, Mumbai - 400 001

Encl: Copy of CRZ clearance letter

4. The Chief Executive Officer, Raigad Zilla Parishad, Alibaug

Encl: Copy of CRZ clearance letter

5. The Assistant Commissioner (F-South ward), MCGM, 'F/S' ward Office, Jagganath Bhatankar Marg & Dr. B. A. Road Junction, Parel Naka, Mumbai-400 012

Encl: Copy of CRZ clearance letter

6. The Block Development Officer, Uran - Taluka

Encl: Copy of CRZ clearance letter

7. Sarpanch, Jasai Village, Tal: Uran, District Raigad

8. Sarpanch, Gavan Village, Tal: Panvel, District Raigad

9. Sarpanch, Chirle Village, Tal: Uran, District Raigad

10. The Block Development Officer, Panvel-Taluka : Encl: Copy of CRZ clearance letter,
Bandra - Kurla Complex, Bandra (East), Mumbai - 400 051.



MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
मुंबई महानगर प्रदेश विकास प्राधिकरण

No. ED/MTHL/CRZ Clearance/publish/16

Engineering Division
Dt. 29th Jan 2016

To,
Additional Chief Secretary (Environment)
Environment Department,
Govt. of Maharashtra,
Mantralaya, Mumbai - 400 032

Sub: Mumbai Trans Harbour Link (MTHL) project
- CRZ Clearance reg.

Ref : Ministry of Environment, Forest and Climate Change, Govt of India letter No.
F.No.11-65/2012-IA.III Dt. 25th January 2016

Sir,
Ministry of Environment, Forest and Climate Change, vide letter referred above, has
accorded CRZ clearance to the Mumbai Trans Harbour Link (MTHL) project. The copy of the
clearance is submitted herewith for your information for ready reference.

Thanking you,

Yours faithfully,

P.D. Mamdapure
(P.D. Mamdapure)
Engineer-in-Chief

Encl: Copy of CRZ clearance letter

Copy submitted to

The Member Secretary, Maharashtra Pollution Control Board, Sion (E), Mumbai with a request
to publish the CRZ Clearance on your website.

Copy submitted for information to,

The Secretary (Forest), Revenue & Forest Dept, Govt. of Maharashtra, Mantralaya, Mumbai

Encl: Copy of CRZ clearance letter

The Chairman, Maharashtra Coastal Zone Management Authority, Mumbai

Encl: Copy of CRZ clearance letter

3. The Director, Bombay Natural History Society, Hornbill house, Dr. Salim Ali Chowk, Shaheed
Bhagat Singh Road, Mumbai - 400 001

Encl: Copy of CRZ clearance letter

4. The Chief Executive Officer, Raigad Zilla Parishad, Alibaug

Encl: Copy of CRZ clearance letter

5. The Assistant Commissioner (F-South ward), MCGM, 'F/S' ward Office, Jagganath Bhatankar
Marg & Dr. B. A. Road Junction, Parel Naka, Mumbai-400 012

Encl: Copy of CRZ clearance letter

6. The Block Development Officer, Uran - Taluka

Encl: Copy of CRZ clearance letter

7. Sarpanch, Jasai Village, Tal: Uran, District Raigad

8. Sarpanch, Gavan Village, Tal: Panvel, District Raigad

9. Sarpanch, Chirle Village, Tal: Uran, District Raigad

10. The Block Development Officer, Panvel - Taluka : Encl: copy of CRZ clearance letter.
Bandra - Kurla Complex, Bandra (East), Mumbai - 400 051.

✓ SP GOVT COLONY P.O <400051>
 EMB648677671N
 Counter No:1, OP-Code:SGK
 To: THE DIRECTOR, MUMBAI NATURAL HISTO
 MUMBAI, PIN:400003
 From: MUMBAI METROPOLITAN REGION, DEVELOPMENT
 Wt:25grams,
 Amt:17.00 ,01/02/2016 ,11:19
 Taxes:Rs.2.00<<Track on www.indiapost.gov.in



✓ SP GOVT COLONY P.O <400051>
 EMB648677981N
 Counter No:1, OP-Code:SGK
 To: MEMBER SECRETARY, MAHA POLLUTION CONT
 MUMBAI, PIN:400022
 From: MUMBAI METROPOLITAN REGION, DEVELOPMENT
 Wt:25grams,
 Amt:17.00 ,01/02/2016 ,11:20
 Taxes:Rs.2.00<<Track on www.indiapost.gov.in



✓ SP GOVT COLONY P.O <400051>
 EMB648677751N
 Counter No:1, OP-Code:SGK
 To: ASST COMMISSIONER, DISTRICT INDUST
 MUMBAI, PIN:400012
 From: MUMBAI METROPOLITAN REGION, DEVELOPMENT
 Wt:25grams,
 Amt:17.00 ,01/02/2016 ,11:19
 Taxes:Rs.2.00<<Track on www.indiapost.gov.in



✓ SP GOVT COLONY P.O <400051>
 EMB648678071N
 Counter No:1, OP-Code:SGK
 To: ADD CHIEF SECRETARY, ENVIRONMENT DEPT
 MUMBAI, PIN:400032
 From: MUMBAI METROPOLITAN REGION, DEVELOPMENT
 Wt:25grams,
 Amt:17.00 ,01/02/2016 ,11:21
 Taxes:Rs.2.00<<Track on www.indiapost.gov.in



✓ SP GOVT COLONY P.O <400051>
 EMB648677841N
 Counter No:1, OP-Code:SGK
 To: SECRETARY, REVENUE & FOREST
 MUMBAI, PIN:400032
 From: MUMBAI METROPOLITAN REGION, DEVELOPMENT
 Wt:25grams,
 Amt:17.00 ,01/02/2016 ,11:20
 Taxes:Rs.2.00<<Track on www.indiapost.gov.in>>



✓ SP GOVT COLONY P.O <400051>
 EMB648678151N
 Counter No:1, OP-Code:SGK
 To: CHAIRMAN, MAHA COASTAL ZONE
 MUMBAI, PIN:400032
 From: MUMBAI METROPOLITAN REGION, DEVELOPMENT
 Wt:25grams,
 Amt:17.00 ,01/02/2016 ,11:21
 Taxes:Rs.2.00<<Track on www.indiapost.gov.in





7570

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
मुंबई महानगर प्रदेश विकास प्राधिकरण

No.ED/MTHL/CRZ/2016

Engineering Division
Date: 16/02/2016

To,
Chief Conservator of Forests,
Near Micro Wave Tower,
Bara Banglow Area,
Thane (East) – 400 603.

Sub.: Mumbai Trans Harbour Link Road.

- CRZ Clearance for Mumbai Trans Harbour Sea Link (MTHL) by
M/s. Mumbai Metropolitan Region Development Authority Reg.

Ref.: Letter obtained from Ministry of Environment & Forests (IA.III Division)
No. F.No.11-65/2012-IA-III dated 25/01/2016.

Sir,

Ministry of Environment & Forests (IA.III Division) has accorded Costal Regulation Zone Clearance (CRZ) for Mumbai Trans Harbour Link Project vide above referred letter.

As required under point no. 8 of General Conditions, the project proponent – Mumbai Metropolitan Region Development Authority has published CRZ clearance in two local Newspapers i.e. India Express – English language and Loksatta – Marathi language on 29/01/2016. The copies of same are enclosed herewith for your information and record please. A copy of CRZ clearance is also enclosed herewith for your ready reference.

Thanking you.

Yours faithfully,


(P.D. Mamdapure)
Engineer-In-Chief

- Encl.: 1. Copy of Notice published in Newspapers.
2. Copy of CRZ clearance from MoEF.



SP AUDIT BHAVAN PD (400051)

EM917205609IN

Counter No:1,OP-Code:SVH

To:ADDL PRINCIPAL CON.CIVIL LINES

NAGPUR, PIN:440001

From:MMRDA, BANDRA E

Wt:30grams,

Amt:40.00, 17/02/2016, 12:02

* Taxes:Rs.5.00<<Track on www.indiapost.gov.in

Bandra - Kurla Complex, Bandra (East), Mumbai - 400 051.

MUMBAI, TUESDAY
27.08.2013

TENDERS & NOTICES

RAJIV GANDHI JEEVANDAYEE AROGYA YOJANA SOCIETY
Government of Maharashtra
Jeevandayee Bhavan, E.S.I.S Hospital Compound,
Ganpat Jadhav Marg, Mumbai - 400018
Phone and Fax: 022-24912291
Email: hc.off1@jeevandayee.gov.in Website: www.jeevandayee.gov.in

CORRIGENDUM II

Ref-Tender Notice- RFP for Printing, Packaging, and Distribution of Health Card Stationery across Maharashtra State dated 3rd August 2013. There have been some modifications in the RFP document. The last date of the submission of the Tender is now extended to 31st August 2013 up to 2 PM. The details of the same in bidding for this tender can be seen on our website www.jeevandayee.gov.in.

Sd/-
CEO

NORTHERN RAILWAY
CORRIGENDUM
OFFICE OF THE MEDICAL DIRECTOR,
NORTHERN RAILWAY CENTRAL HOSPITAL
BASANT LANE, DELHI-110055
File No. E/Med/SR/74/13
Advt.No. NRCH/SR/2013/002 Dt.: 08.2013
ENGAGEMENT OF SENIOR RESIDENTS
In continuation to previous advertisement published vide Advt. No. NRCH/SR/2013/001 dated 20.07.13 for appointment of Senior Residents, the age limit may be read as:- (1) General - 33 Years (2) OBC - 36 Years (3) SC & ST - 38 Years
Instead of - (1) General/UR - 33 Years (2) OBC/SC/ST - 38 Years. 1898/13
Serving Customers With A Smile

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY
MMRDA (A Government of Maharashtra Undertaking)
Plot Nos. C-14 & 15, Bandra-Kurla Complex, Bandra (E),
Mumbai - 400 051. Tel. 26590001-04, Fax: 26591264.
Website: www.mmrda.maharashtra.gov.in

Name of work : Mumbai Trans Harbour Link Project.
Ref:- letter from Ministry of Environment and Forests dated 19.7.2013.
Ministry of Environment and Forests, GOI has accorded Coastal Regulation Zone clearance to the Mumbai Trans Harbour Link Project vide their letter no F.No.11-65/2012-IA-III dated 19.7.2013. Copies of clearance letter are available with the State Pollution Control Board. It can be also downloaded from the website of the Ministry of Environment & Forests at <http://www.envfor.nic.in>

Date: 26/08/2013
Place : Mumbai
No.ED/MTHL/MoEF/Clearance/13

Sd/-
Chief Engineer,
Engineering Division

PUNJAB STATE TRANSMISSION CORPORATION LIMITED
Regd. Off. : PSEB H.O., The Mall, Patiala-147001
Office of Chief Engineer/Transmission System, Shakti Sadan, Patiala-147001

CORRIGENDUM NO-2

Last date and time for sale of Bid documents, receipt and opening of Tender against Enquiry No. STQ-2012 for Tower Package for the construction of following 400KV lines on turnkey basis:
1. 400KV S/s Nakodar - 400 KV Wadala Granthian D/C line - 90 Kms.
2. 400KV S/s Dhuri (Bhalwan) - 400KV S/s Amloh (Near Bhagwanpura) D/C Line - 48Kms has been revised as follows:
Tender Enquiry No: STQ-2012

	Old Revised Date & Time	New Revised Date & Time
i) Last date of sale of Bid Documents:-	26.08.2013 upto 15.00Hrs.	07.10.2013 upto 15.00Hrs
ii) Last date/time for Bid Submission:-	29.08.2013 upto 11.00Hrs.	10.10.2013 upto 11.00Hrs
iii) Date/Time for Opening of Bids:-	29.08.2013 at 15.00Hrs.	10.10.2013 at 15.00Hrs

Detailed NIT/Corrigendum No. 2 may be down loaded from PSTCL web site: www.pstcl.org

C-235/2013TS
Use Solar Power for Domestic Use

Dy. CE/TS (Design),
PSTCL, Patiala

PUNJAB STATE TRANSMISSION CORPORATION LIMITED
(Regd. Office, PSEB, Head Office, The Mall, Patiala-147001)

NOTICE INVITING TENDER

1. Type of Tender : Open Tender
2. Name & complete address of office giving tender : Chief Engineer / TS, 3rd Floor, Shakti Sadan, PSTCL, Patiala
3. Tender Enquiry No. : STQ-1020
4. Scope of Work : Manufacture, fabrication, galvanization & supply of 220 KV tower material as per PSTCL Specification STQ-1020 Qty. - 8800 MT
5. Starting date of downloading from website <https://pstcl.nprocure.com> : Date of Publication
6. Last date of downloading from website <https://pstcl.nprocure.com> : 23.9.2013 upto 3.00 PM
7. Last date/time for bid submission : 26.9.13 upto 11.00 AM
8. Date/time for opening of bids : 26.9.2013 at 2.30 PM
9. Cost of specification : Rs. 2500/-
10. Mode of Payment : As. per specification
11. Tender specification can only be downloaded from website <https://pstcl.nprocure.com>. Details regarding e-Tendering are available on website www.pstcl.org. All the prospective bidders are requested to get their digital signatures, register themselves on the web site <https://pstcl.nprocure.com> and get conversant with the process of on line submission of tenders well in time so as to submit the tender by the due deadline. No request for extension in the due date of tender opening on the above grounds shall be entertained.

C-236/2013 TS
Dy. CE/TS (Design),
PSTCL, Patiala.
Save Electricity Save Money

TATA MEMORIAL HOSPITAL
E. BORGES MARG, PAREL, MUMBAI-400 012

TENDERS & NOTICES

RAJIV GANDHI JEEVANDAYEE AROGYA YOJANA SOCIETY
Government of Maharashtra
Jeevandayee Bhavan, E.S.I.S Hospital Compound,
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Ref-Tender Notice- RFP for Printing, Packaging, and Distribution of Health Card Stationery across Maharashtra State dated 3rd August 2013. There have been some modifications in the RFP document. The last date of the submission of the Tender is now extended to 31st August 2013 up to 2 PM. The details of the same, in bidding for this tender can be seen on our website www.jeevandayee.gov.in.
Sd/-
CEO

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Plot Nos. C-14 & 15, Bandra-Kurla Complex, Bandra (E),
Mumbai - 400 051. Tel: 26590001-04, Fax: 26591264.
Website: www.mmrda.maharashtra.gov.in

NAME OF WORK: Mumbai Trans Harbour Link Project.
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Ministry of Environment and Forests: GOI has accorded Coastal Regulation Zone clearance to the Mumbai Trans Harbour Link Project vide their letter No.F.No.11-65/2012-IA-III dated 19.7.2013. Copies of clearance letter are available with the State Pollution Control Board. It can be also downloaded from the Website of the Ministry of Environment & Forests at <http://www.envfor.nic.in>
Sd/-
Chief Engineer,
Engineering Division
No.ED/10/HL/MOE/Clearance/13
Date: 26/08/2013
Place: Mumbai

PUNJAB STATE TRANSMISSION CORPORATION LIMITED
Regd. Off., PSEB H.O., The Mall, Patiala-147001
Office of Chief Engineer/Transmission System, Shakti Sadan, Patiala-147001
CORRIGENDUM NO-2
Last date and time for sale of Bid documents, receipt and opening of Tender against Enquiry No. STQ-2012 for Tower Package for the construction of following 400KV lines on turnkey basis:
513 04 535

NORTHERN RAILWAY
CORRIGENDUM
OFFICE OF THE MEDICAL DIRECTOR,
NORTHERN RAILWAY CENTRAL HOSPITAL
BASANT LANE, DELHI-110065
File No. E/Med/SR/174/13
Adv. No. NRCH/SR/2013/002 DL: 08.2013
ENGAGEMENT OF SENIOR RESIDENTS
In continuation to previous advertisement published vide Advt. No. NRCH/SR/2013/001 dated 20.07.13 for appointment of Senior Residents, the age limit may be read as: (1) General - 33 Years (2) OBC - 36 Years (3) SC & ST - 38 Years
Instead of: (1) General/UR - 33 Years (2) OBC/SC/ST - 30 Years. 1898/13
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PUNJAB STATE TRANSMISSION CORPORATION LIMITED
(Regd. Office, PSEB, Head Office, The Mall, Patiala-147001)
NOTICE INVITING TENDER
1. Type of Tender: Open Tender
2. Name & complete address of office giving tender: Chief Engineer / TS, 3rd Floor, Shakti Sadan, PSTCL, Patiala
3. Tender Enquiry No.: STQ-1020
4. Scope of Work: Manufacture, fabrication, galvanization & supply of 220 KV tower material as per PSTCL Specification STQ-1020 Qty.-8800 MT
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10. Mode of Payment: As per specification
Date of Publication
<https://pstcl.procure.com>
Date of Publication
website <https://pstcl.procure.com>
23.9.2013 upto 3.00 PM

WEEKLY UPDATE ON THE BEACONS IN INDIA'S PROGRESS



Central Bank celebrates Independence Day



Malay Mukherjee and Raj Kumar Goyal, Executive Directors, and Capt. S Kannan, CSO., seen during flag hoisting ceremony

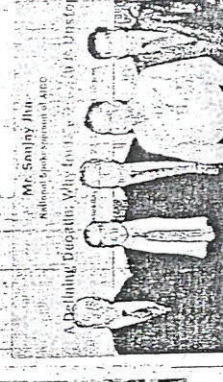
Central Bank Of India celebrated 67th Independence Day on August 15, 2013 at its corporate office in Mumbai. Flag hoisting was carried out by Malay Mukherjee and Raj Kumar Goyal Executive Directors. Executives and staff members of the bank were also present on the occasion.



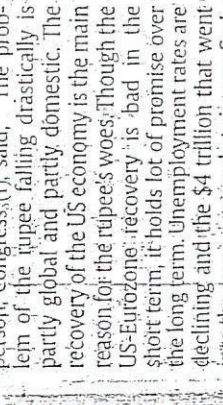
ral areas. To keep the expansion momentum going, the bank is planning to take its branch network to 800 by the end of current fiscal and "God willing, we will be having 1000 branches by the end of FY15," he said.

The new business units include: Soilmoh in Tal area of Pulwama district, Wandevalgam and Ahlan Gadole in Anantnag, Trenz and Fruit Mandi Prichoo in Shopian. "We have a strong commitment to J&K, our core area of operations. In an effort to make the state financially inclusive, the bank has always ensured to make its presence felt in every block of the state, including unbanked and far flung areas," the Chairman said.

IMC organises interaction



An interactive meeting was organised by the Indian Merchants' Chamber, Mumbai on August 22, 2013. The topic was, 'A Defining Decade - Why India's Growth is Unstoppable'. Shailesh Vaidya, President, IMC, said, "The Indian economy is 'currently' facing tough times. The critical growth v/s inflation conflict is assuming political overtones, with the biggest sufferer being the economy." Sanjay Jha, National Spokesperson, Congress, (I), said, "The problem of the rupee falling drastically is partly global and partly domestic. The recovery of the US economy is the main reason for the rupee's woes. Though the US-Eurozone recovery is bad in the short term, it holds lot of promise over the long term. Unemployment rates are declining and the \$4 trillion that went into the American market is now find-



NHB profits rise

National Housing Bank (NHB) announced its annual results for the financial year ended 30th June, 2013. The Bank posted a net profit of 450 crore during the current year as against 38 crore in the previous year, an increase of over 16%. The loans and advances of the Bank increased by 6,113 crore from 28,490 crore to 34,603 crore, an increase of 22%. The Bank's total loan disbursements during the year were 17,63 crore (previous year 14,154 crores), growth of 22% out of which the share in rural housing was about 14%, aggregating to 7,718 crores. Of the total disbursements made during the year, loans upto 15 lakh constituted about 60%. The Bank crossed the cumulative refinancing disbursement of 1,00,000 crore during the year 2012-13.

IDBI Bank hikes rates

IDBI Bank has increased interest rate on foreign currency non-resident (NRI) deposits across select maturity buckets, aimed at attracting foreign currency inflows from NRI diaspora. Interest rates on FCNR (B) deposits for the tenor of 3 years, and above has been increased by 100 basis points (bp) across all nine currencies. In respect of NRE Deposits, the rates have been hiked for the tenor of more than years up to 7 years by up to 25 bps. The bank is now offering a pre-emptive interest rate of 9.5% on NRE deposits as a result of the above revision. No pre-mature penalty shall be levied on the NRI deposits. The revised rates, which took effect from August 20, 2013, shall be valid up to November 30, 2013 and subject to review.



MMRDA

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

(A Govt. of Maharashtra Undertaking)
C-14 & 15, Bandra-Kurla Complex, Bandra (E),
Mumbai - 400 051. Tel. 26594001-04 Fax 26591264
Email: ce.mmrda@gmail.com
Website : <https://www.mmrda.maharashtra.gov.in>

Sub. : Mumbai Trans Harbour Link Project

**Ref. : Letter from Ministry of Environment & Forests
dated 25/01/2016.**

Ministry of Environment & Forests, Govt has granted coastal regulation zone clearance to the Mumbai Trans Harbour Link Project vide their letter no. F.No.11-65/2012-IA-III dated 25/01/2016. Copies of clearance letter can be downloaded from website of Ministry of Environment & Forests at <http://environmentclearance.nic.in>

No.ED/MTHL/MoEF/Clearance/16

Sd/-

Date: 29/01/2016

Place: Mumbai

Engineer-in-Chief
Engineering Division

CENTRAL PUBLIC WORKS DEPARTMENT NOTICE INVITING E-TENDERS

The Indian **EXPRESS** Sat, 30 January 2016
epaper editions epaper.indianexpress.com

page no. 24

□ ४ कार्ड्स □ बॉटल लॅप (दु. २-साव. ५)
 • कोर्स ३ ते ७ फेब्रु. २०१६ • १५ जागा
 अधिक माहितीसाठी संपर्क: 9920592150

CENTRAL PUBLIC WORKS DEPARTMENT NOTICE INVITING E-TENDERS

The Executive Engineer, Mumbai Central Division No. II, CPWD, Nirman Sadan, 2nd Floor, Kane Nagar, Antop Hill, Mumbai-37 invites on behalf of President of India online item rate tenders for following works :-

1. NIT No.58/EE/MCD II/2015-16 [Recall]
 Name of Work :- Addition/Alteration to CGH at S.M.Plot, Sector-VII, Antop Hill, Mumbai-37 during 2015-16. SH:Upgradation of Bldg.No.51 (Flat 10 Nos.2063, 2064, 2066, 2073, 2074, 2075, 2084, 2085, 2087, 2089). Estimated Cost :- Rs.9,68,484/-, Earnest Money :- Rs.19,370/-, Period of completion:- 05 (Five) Months, Last Date and Time of Submission of Tender :- 15.00 hrs. of 06/02/2016 and opening on 06/02/2016 at 3.30 PM

2. NIT No.97/EE/MCD II/2015-16
 Name of Work :- A/R & M/O to CGH at SPL, Kane Nagar, Sector-II & III, Mumbai-37, during 2015-16. SH:Repairs to internal rooms by plastering and painting. Estimated Cost :- Rs.1,260/-, Earnest Money :- Rs.15,645/-, Period of completion:- 03 (Three) Months, Last Date and Time of Submission of Tender :- 15.00 hrs. of 06/02/2016 and opening on 06/02/2016 at 3.30 PM

3. NIT No.98/EE/MCD II/2015-16
 Name of Work :- Urgent internal repairs and painting of 35 Nos. new allotted vacant and dilapidated quarters of building No.53, 54, 55 and 58 Revenue pool (Income Tax Department). Estimated Cost :- Rs.14,66,365/-, Earnest Money :- Rs.29,327/-, Period of completion:- 06 (Six) Months, Last Date and Time of Submission of Tender :- 15.00 hrs. of 06/02/2016 and opening on 06/02/2016 at 3.30 PM

4. NIT No.99/EE/MCD II/2015-16
 Name of Work :- Structural repairs to distressed building of CGH, SPL, Kane Nagar in Sector-III, Antop Hill, Mumbai-37 during 2015-16. SH:Minor repairs with external painting to building No.31. Estimated Cost :- Rs.7,41,875/-, Earnest Money :- Rs.14,838/-, Period of completion:- 03 (Three) Months, Last Date and Time of Submission of Tender :- 15.00 hrs. of 06/02/2016 and opening on 06/02/2016 at 3.30 PM

5. NIT No.100/EE/MCD II/2015-16
 Name of Work :- Special Repair to S.M.Plot, Phase-II, Sector-II, Antop Hill, Mumbai-37 during 2015-16 SH:Repairs to anholes, gully traps and sewerlines building No.1 to 51. Estimated Cost :- Rs.17,69,072/-, Earnest Money :- Rs.35,381/-, Period of completion:- 12 (Twelve) Months, Last Date and Time of Submission of Tender :- 15.00 hrs. of 06/02/2016 and opening on 06/02/2016 at 3.30 PM

6. NIT No.102/EE/MCD II/2015-16
 Name of Work :-Aesthetic improvement of CGS Colony at M.Plot, Phase-II, Sector-VII, Antop Hill, Mumbai-37 during 2015-16. SH:Development of pump house area by surface dressing, cement concrete, repairs to sluice chamber, pump use near building No.25 (Section A). Estimated Cost :- Rs.7,37,019/-, Earnest Money :- Rs.14,740/-, Period of completion:- 02 (Two) Months, Last Date and Time of Submission of Tender :- 15.00 hrs. of 06/02/2016 and opening on 06/02/2016 at 3.30 PM

7. NIT No.103/EE/MCD II/2015-16
 Name of Work :-Providing concertina coil over existing grill compound wall, north side of the building No.186,188 & 2, around the garden at Sector-VI, Kane Nagar, Mumbai-37. Estimated Cost :- Rs.6,92,458/-, Earnest Money :- Rs.13,849/-, Period of completion:- 01 (One) Month, Last Date and Time of Submission of Tender :- 15.00 hrs. of 06/02/2016 and opening on 06/02/2016 at 3.30 PM

tender forms and other details can be obtained from website www.tenderwizard.com/CPWD or www.cpwd.gov.in, www.tenderhome.com and www.eprocure.gov.in.

EX-SERVICEMEN CONTRIBUTORY HEALTH SCHEME (ECHS)

1. Application invited for appointment of one 'HELPER' each at ECHS Polyclinic Solapur, Osmanabad, Latur and Beed for six months (may extended) on contractual basis.
2. Conversant with Hindi and Marathi, min. qualification SSC.
3. Fixed salary - Rs 8000 - pm.
4. Send application with CV by E-mail. Registered Post or through ECHS Polyclinic by 10 Feb 2016 to undermentioned address.

Contact 0241-2321233 (working hours) (Excluding Sundays and Gazzated Holidays)

ECHS Cell, Station Headquarters

PO : Camp, Jamkhed Road, Ahmednagar-414002

Contact No: 0241-2323565, 2321233

E-mail: echscellstnhqanagar@yahoo.com



मुंबई महानगर प्रदेश विकास प्राधिकरण

(महाराष्ट्र शासन अंगिकृत)

सी - १४ व १५, बॉटल लॅप, बॉटल (पूर्व), मुंबई-४०० ०५१

दूरध्वनी : २६५९४००९-०४ फॅक्स : २६५९५३४

ई-मेल : ce.mmrda@gmail.com

वेबसाईट : <https://www.mmrda.maharashtra.gov.in>

विषय : मुंबई पारबंदर प्रकल्प

संदर्भ : केंद्रीय पर्यावरण विभागाचे दिनांक २५/०१/२०१६

रोजीचे पत्र

मुंबई पारबंदर प्रकल्पास केंद्रीय पर्यावरण व वन विभागाने पत्र क्र.F.No.11-65/2012-IA-III दिनांक २५/०१/२०१६ अन्वये सागरी नियंत्रण क्षेत्र विषयक (CRZ) मान्यता दिलेली आहे. सदर पत्राची प्रत केंद्रीय पर्यावरण व वन विभागाच्या <http://environmentclearance.nic.in> या संकेतिक स्थळावर उपलब्ध आहे.

क्र.अभि/मुं.पा.प्र/के.प.वि/मान्यता/१६

दिनांक : २९/०१/२०१६

स्थळ : मुंबई

सहो/-

प्रमुख

अभियांत्रिकी विभाग



शुद्धिपत्रक-२

शहर आणि औद्योगिक विकास महामंडळ (महाराष्ट्र) मर्यादित

सिडको नवी मुंबई प्रकल्पग्रस्तांसाठी UPSC (Civil Services) - २०१६ स्पर्धा परीक्षेच्या तयारी कारता दिल्ली येथील नामवंत कोचिंग इन्स्टीट्यूटमध्ये नि:शुल्क कोचिंग मूळ जाहिरात दिनांक - २२.१२.२०१५, शुद्धिपत्रक-१ - ०९.०१.२०१६ सदरील बदल बारी, पुणे यांनी कळविला आहे.

सिडको नवी मुंबई प्रकल्पग्रस्तांसाठी कौशल्यवृद्धी कार्यक्रम सिडकोतारा अंतर्गत पात्र प्रकल्पग्रस्त पदवीधरांसाठी दिल्ली येथील नामवंत कोचिंग इन्स्टीट्यूटमध्ये (वार्जामा एंड रवी, अल्टरनेटिव्ह लर्निंग सिस्टीम प्रा.ली., श्रीराम आय.ए.एस.) UPSC Civil Services-2017 - Preliminary and Mains या दोन्ही स्पर्धा परीक्षा पूर्व तयारीसाठी उमेदवारांना पुरस्कर्त (Sponsor) करण्यात येणार आहे. सदर नामवंत कोचिंग इन्स्टीट्यूटमध्ये प्रवेशपरीक्षा COMMON ENTRANCE TEST (CIDCO-DELHI-CET-2017) बारी, पुणे च्या माध्यमाने देण्यात येईल, तरी त्यासाठी ऑनलाईन अर्ज मागविण्यात येत आहे.

ऑनलाईनद्वारे अर्ज स्विकारण्याची अंतिम तारीख	दि. ११ मार्च, २०१६
ई-प्रवेश पत्र (Admit Card) मिळण्याची तारीख	दि. १९ मार्च, २०१६
CIDCO-DELHI-CET-2016 परीक्षेची तारीख	दि. २७ मार्च, २०१६

ऑनलाईन अर्ज करण्यासाठी

<http://barti.maharashtra.gov.in> > NOTICEBOARD > CIDCO-DELHI-CET-2017 वर क्लिक करा.

अधिक माहितीसाठी संपर्क - <http://cidcopap.org> कॉलसेटर ६१०५ ४४५५, ६१०४५४०३, ६१०४५४००

व्यवस्थापक (पुनर्वसन)

CIN - U99999 MH 1979 SGO-014574

www.cidco.maharashtra.gov.in

www.Larsentoubro.com

Registered Office: L&T

EXTRACT OF STATE FOR THE QUARTER

Particulars

1	Total Income from Operations (I)
2	Net Profit after tax, minority inte of associates (before extraordin
3	Net Profit after tax, minority inte of associates (after extraordinar
4	Equity share capital
5	Reserves (excluding revaluation Balance Sheet of previous year)
6	Earnings per share of ₹ 2/- each (not annualised): (a) Basic EPS (₹) (b) Diluted EPS (₹)
7	Earnings per share of ₹ 2/- each (not annualised): (a) Basic EPS (₹) (b) Diluted EPS (₹)

Notes:

- (i) The Company reports conso Regulation 33 of the SEBI (L results are available on the C and NSE (www.nseindia.com nine months ended Decembe

Particulars

Total Income from Operations (net)
Profit before tax
Profit after tax

- (ii) The above is an extract of the Regulation 33 of the SEBI (List Quarterly Financial Results ar respectively and on the Comp

- (iii) The above extract is based or results in newspapers with ad March 31, 2015 added to facil

Mumbai
 January 29, 2016

**General Consultant for Mumbai Trans Harbour Link Project****Ref No: MTHL/P4/GC/STR/LT/EOT- 0804 /2023****28th December 2023**

To,

M/s. STRABAG Infrastructure & Safety Solutions GmbH & STRABAG AG STRABAG Infrastructure & Safety Solutions GmbH

Ignaz-Kock-Str. 19, A-1210 Vienna, Austria

Strabag AG

Ortenburger Strasse-27,

9800 Spittal Ander Drau, Austria.

Kind Attn: Mr. Tarun Sharma**Project:** Procurement of Mumbai Trans Harbour Link Project (Package-4) Design, Supply, Installation, Testing and Commissioning of Intelligent Transport System (ITS), Toll Management System, Electrical Works, Highway Illumination System, Construction of Toll Plazas and Administrative Buildings including Command Control Centre under Contract no. MMRDA/ENG 1/0002561**Sub: Approval for Interim Extension of Time (EOT-01)****Ref:**

1. Contractor's EOT Application: MTHL/P4/STR/GC/LT/PJC/2023/00833 dated 26-10-23
2. MMRDA's Approval: MMRDA/MTHL-PIU/P4/GC/EOT-1/2530/2023 Dated: 19-12-2023

Dear Sir,

This has reference to MMRDA letter no 2530/2023 dated 19.12.2023, the Employer has approved an Interim Extension of Time for a period of 76 days. The approved completion date will be 15.12.2023. Key Dates and Financial Milestones shall be determined as part of final determination separately.

Therefore, you are required to submit the revised work programme with the completion date as 15.12.2023, in accordance with GCC Clause 8.3 (Programme).

You shall extend the validity of insurances, Performance Bank Guarantee and any other licences and permits required to execute the Contract.

Thanking you,
Yours faithfully,**K.R. Shivananda**
The Engineer
General Consultant (MTHL)**Encl: As above****CC: Engineer-in-Chief, MMRDA.**
Executive Engineer – MMRDA – Mr. M. P. Singh
Executive Engineer MMRDA - Mr. Sudhir Kishanrao Fulari

By Email



No: MMRDA/MTHL-PIU/P4/GC/EOT-1/2530/2023



Date: 19.12.2023

To,
The Team Leader,
M/s AECOM Asia Company Ltd.
(In Consortium with PADECO Co. Ltd –
Dar-Al-Handasah - T.Y. Lin International)
6th floor, A Wing, MMRDA Bldg (Old),
E-Block, BKC, Bandra (East) Mumbai-51.

Sub: Mumbai Trans Harbour Link Project (Package-4)

--- Approval to Interim Extension of Time limit to M/s Strabag for completion of contract for Pkg-4

Ref:-

1. LOA issued vide letter No. MMRDA/MTHL/Pkg-4/LOA/2022/1172, dated 05.05.2022
2. Agreement Executed on 28.07.2022
3. Commencement letter issued vide no. MTHL/P4/GC/STR/LT/CNT-0008/ 2022, dt.18.08.20022
4. Contractor's Letter: MTHL/P4/STR/GC/LT/CNT/2023/00548 dated 21.06.2023.
5. GC's Letter. MTHL/P4/GC/STR/LT/PJC-0606/2023 dated 25.09.2023.
6. Contractor's Letter: MTHL/P4/STR/GC/LT/CNT/2023/00790 dated 12.10.2023.
7. Contractor's Letter: MTHL/P4/STR/GC/LT/PJC/2023/00833 dated 26.10.2023.
8. MOM Hon. EIC review meet on 01.08.2023.
9. MOM Hon. MC review meet on 30.08.2023.
10. GC's Letter. MTHL/P4/GC/STR/LT/PJC-3897/2023 dated 01.11.2023

Sir,

This has reference to the letters received by General Consultant referred above for Interim EOT for MTHL Package 4 Contract. The Contract was awarded to M/s Strabag with the commencement date 18.08.2022 and as per the earlier approved EOT, completion period was 31.05.2023

The GC vide their letter dated 01.11.2023, verified the reasons for delay and critical path for completion of the balance work and recommended to MMRDA for approving interim EOT up to 31.05.2023, pending the final determination of the Engineer as per terms of the Contract. Extension of the Key Date and the dates of Financial Milestones shall be determined as part of the final determination.

As per the recent discussion held with the Contractor, the Contractor is directed to complete the works by 15.12.2023, which was apparently agreed by the Contractor. The proposal for concurrence of JICA is processed separately.

As the earlier granted EOT was expired on 31.05.2023, and the time limit of extension recommended by GC seems acceptable considering the reasons stated in review meeting and discussion with the contractor, Employer is hereby provide approval for Extension of time up to 15.12.2023.

This is for your kind information.

Thanking you.

Yours faithfully,


(S.A. Wandhekar)
Engineer-In-Chief

मुंबई महानगर प्रदेश विकास प्राधिकरण

वांद्रे-कुर्ला संकुल, वांद्रे (पूर्व), मुंबई ४०००५१.

ईपीएबीएक्स +९१ २२ २६५९ ०००१/ ४०००

<https://mmrda.maharashtra.gov.in>

**Ref No: MTHL/P2/GC/DW-TPL/LT/EOT- 2888 /2023****24th November 2023****To,****DAEWOO-TPL Joint Venture**

(M/s DAEWOO Engineering & Construction Co. Ltd. And M/s Tata Projects Ltd.)

11th Floor, Hiranandani Knowledge Park, Technology Street,

Powai, Mumbai-400076, Maharashtra, India.

Phone No: 91-2267402900.

Project: Procurement of Mumbai Trans Harbour Link Project (Package 2) Construction of 7.807 km long bridge section (CH 10+380 –CH 18+187) across the Mumbai Bay including Shivaji Nagar Interchange-Contract No.: MMRDA/ENG1/000753 dated 19th January 2018.

Sub: Approval for Extension of Time (EOT – Application No.4).**Ref:**

1. Contract Agreement no MMRDA/ENG1/00753 dated 19.01.2018.
2. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2019-1248 dated 11.10.2019.
3. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2020-2285 dated 17.11.2020.
4. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2021-2466 dated 12.01.2021.
5. GC Letter No MTHL/P2/GC/DW-TPL/LT/CNT-2117/2021 dated 02.06.2021.
6. GC Letter No MTHL/P2/GC/DW-TPL/LT/CNT-2134/2021 dated 05.07.2021.
7. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2021-2911 dated 04.06.2021.
8. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2021-2976 dated 06.07.2021.
9. GC Letter No MTHL/P2/GC/DW-TPL/LT/CNT-2367/2021 dated 25.11.2021.
10. Contractor's letter No. MTHL/DW/GC/LT/CNT/2022-3916 dated 26.04.2022.
11. GC Letter No MTHL/P2/GC/DW-TPL/LT/CNT-2528/2022 dated 04.06.2022.
12. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2022-4067 dated 28.06.2022.
13. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2023-5033 dated 01.09.2023.
14. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2023-5053 dated 07.09.2023.
15. Contractor's letter No. MTHL/DW/GC/LT/PCJ/2023-5085 dated 25.09.2023.
16. MMRDA's letter No. MMRDA/MTHL/Pkg-2/GC/EOT-2/2423/2023 Dated 22.11.2023.

Dear Sir,

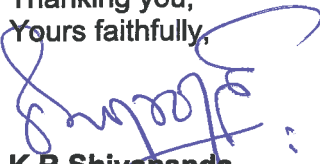
This has reference to MMRDA letter no 2423/2023 dated 22.11.2023, the Employer has approved an Interim Extension of Time for a period of 79 days. The approved completion date will be 15.12.2023. Key Dates and Financial Milestones shall be determined as part of final determination separately.



Therefore, you are required to submit the revised work programme with the completion date as 15.12.2023, in accordance with GCC Clause 8.3 (Programme).

You shall extend the validity of insurances, Performance Bank Guarantee and any other licences and permits required to execute the Contract.

Thanking you,
Yours faithfully,


K.R. Shivananda
The Engineer
General Consultant (MTHL)

Encl: MMRDA letter: MMRDA/MTHL/Pkg-2/GC/EOT-2/2423/2023 Dated 22.11.2023.

CC: Engineer-in-Chief, MMRDA.,
Superintending Engineer – MMRDA - Mr. Yatin Sakhalkar
Executive Engineer – MMRDA – Mr. Abhijit Bhisikar



By Email

No: MMRDA/MTHL/Pkg-2/GC/EOT-2/2423/2023

Date: 22.11.2023

To,
The Engineer, General Consultant
AECOM Asia Company Ltd. –PADECO Co. Ltd. – DAR A1-Handasah
Consultants (Share & Partners) –T.Y.L in International (Consortium),
A-Wing, 6th Floor, Old MMRDA Building,
Bandra Kurla Complex, Bandra (East), Mumbai – 400051.

Sub: Mumbai Trans Harbour Link Project (Package-2)

Approval to Interim Extension of Time limit to M/s Daewoo-TPL JV for completion of contract for Pkg-2 up to 15.12.2023.

- Ref:-**
1. T.O. letter No.MMRDA/MTHL-PIU/PKG-2/EOT-1/641/2021 dated 01.10.2021.
 2. Letter from JICA vide No. JICA (ID) 2021-662 dt. 22/11/2021.
 3. GC Letter No MTHL/P2/GC/DW-TPL/LT/CNT-2367/2021 dated 25.11.2021.
 4. Contractor's letter No.MTHL/DW/GC/LT/CNT/2022-3916 dated 26.04.2022.
5. GC Letter No MTHL/P2/GC/MMRDA/LT/CNT-3820/2023 dated 27.09.2023.
 6. T.O. letter no.MMRDA/MTHL-PIU/JICA/PKG-2/EOT-2/2414/2023 dated 20.11.2023.
 7. JICA letter no. JICA (ID) 2023-787 dated 21.11.2023.

Sir,

1. The MTHL Package 2 Contract has been awarded to M/s. Daewoo-TPL JV. The Commencement Letter was issued on 23.03.2018 and the original completion period as per the Contract was up to 22.09.2022. The first Extension of Time for a period of 372 days, i.e. till 27 September 2023 was granted to the Contractor with the concurrence of JICA.
2. Subsequently, the Engineer had recommended an interim EOT to be granted to the Contractor for delays up to 31.05.2023 pursuant to Sub-Clause 8.4 of GCC till 15.12.2023.
3. The proposed interim Extension of Time (i.e. EOT-2) up to 15/12/2023 is accepted by competent authority of MMRDA. JICA has also conveyed concurrence to the interim EOT-2 up to 15.12.2023 for Package-2 of MTHL. The copy of JICA's letter is attached herewith for your ready reference.
4. Based on the proposed extension, GC is requested to determine the Key Dates and the dates of Financial Milestones and submit the final proposal.
5. Meanwhile, the Engineer is requested to communicate the interim EOT-2 to the contractor as per the provisions of contract.

Thanking you.

Encl: As above

Yours faithfully,


(S. A. Wandhekar)
Engineer-In-Chief

मुंबई महानगर प्रदेश विकास प्राधिकरण

वांद्रे-कुर्ला संकुल, वांद्रे (पूर्व), मुंबई ४०००५१.
हॉपीएचएस +९१ २२ २६५९ ०००१/ ४०००
<https://mmrda.maharashtra.gov.in>



General Consultant for Mumbai Trans Harbour Link Project

Ref No: MTHL/P3/GC/L&T/LT/EOT- 2291 /2024

2nd January 2024

To,
Larsen & Toubro Limited
L&T Construction, C/O Larsen and Toubro Ltd,
Mount Poonamali Road, Manpakkam,
PBN 979 Chennai-600089, Tamil Nadu, INDIA.

Project: Procurement of Mumbai Trans Harbour Link Project (Package-3) - Construction of 3.613 km long viaduct section (CH 18+187 to CH21+800) including interchanges at State Highway-54 and at National Highway-4B near Chirle in Navi-Mumbai. IFB No.: MMRDA/ENG1/000754 dated 26th December 2017.

Sub: Approval for Extension of Time (EOT-06 R1)

Ref:

1. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0002054/2021 dated 12.04.2021.
2. GC letter No. MTHL/P3/ GC/ L&T/LT/CNT-1516/2021 dated 28.04.2021.
3. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0002580/2021 dated 20.05.2021.
4. GC letter No. MTHL/P3/GC/L&T/LT/CNT-1633/2021 dated 21.09.2021.
5. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0002810/2021 dated 13.10.2022.
6. GC letter No. MTHL/P3/ GC/ L&T/LT/CNT-1674/2021 dated 15.11.2021.
7. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0002984/2021 dated 11.12.2021.
8. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0003326/2022 dated 05.09.2022.
9. GC letter No. MTHL/P3/GC/L&T/LT/CNT-1904/2022 dated 08.09.2022.
10. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0003439/2022 dated 28.11.2022.
11. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-2504/2021 dated 12.04.2021.
12. GC letter No. MTHL/P3/GC/L&T/LT/CNT- 1633 /2021 dated 21.09.2021.
13. MMRDA letter No. MTHL/P3/GC/MMRDA/LT/EOT-2nd/2023/2015 dated 02.05.2023.
14. GC letter No. MTHL/P3/GC/L&T/LT/CNT-2078/2023 dated 08.05.2023.
15. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-00003716/2023 dated 08.06.2023.
16. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0003778/2023 dated 13.07.2023.
17. L&T letter No. MTHL/P3/L&T/GC/LT/PJC-0003815/2023 dated 08.08.2023.
18. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0003859/2023 dated 05.09.2023.
19. MMRDA/MTHL-PIU/GC/PKG3/EOT-3/2569/2023 Dated 29.12.2023.

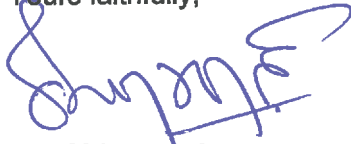
Dear Sir,

This has reference to MMRDA's letter no: 2569/2023 dated 29.12.2023, the Employer has approved an Interim Extension of Time for a period of 123 days. The approved completion date will be 07.12.2023. Key Dates and Financial Milestones shall be determined as part of final determination separately.

Therefore, you are required to submit the revised work programme with the completion date as 07.12.2023, in accordance with GCC Clause 8.3 (Programme).

You shall extend the validity of insurances, Performance Bank Guarantee and any other licences and permits required to execute the Contract.

Thanking you,
Yours faithfully,



K.R.Shivananda
The Engineer
General Consultant (MTHL)

Encl: as above

CC: Engineer-in-Chief, MMRDA.
Superintending Engineer – MMRDA - Mr. Purushottam Nimje
Executive Engineer – MMRDA – Mr. M. P. Singh



By Email

No: MMRDA/MTHL-PIU/GC/ PKG3/EOT-3/2569/2023

Date: 28.12.2023

To,
The Team Leader,
M/s AECOM Asia Company Ltd.
(In Consortium with PADECO Co. Ltd –
Dar-Al-Handasah - T.Y. Lin International)
6th floor, A Wing, MMRDA Bldg (Old),
E-Block, BKC, Bandra (East) Mumbai-51.

Sub: Mumbai Trans Harbour Link Project (Package 3)

--- Approval to Extension of Time limit to M/s L&T for completion of contract for Pkg-3

- Ref:-**
1. Contract Agreement: MMRDA/ENG1/000754 dated 26.12.2017 MMRDA's Letter of Acceptance (LOA) to M/s L&T dated 17.11.2017
 2. GC's letter of Commencement to L&T dated 23.03.2018
 3. MMRDA letter of EOT NO.MTHL/P3/GC/MMRDA/LT/EOT-0605/2021,dt.21.09.2021
 4. MMRDA letter No. MTHL/P3/GC/MMRDA/LT/EOT-2nd/2023/2015 dated 02.05.2023
 5. GC letter No. MTHL/P3/GC/L&T/LT/CNT-2078/2023 dated 08.05.2023
 6. L&T letter No. MTHL/P3/L&T/GC/LT/CNT-0003859/2023 dated 05.09.2023
 7. GC letter No. MTHL/P3/GC/MMRDA/LT/3819/2023 dated 27.12.2023

Sir,

This has reference to the letters received by General Consultant referred above for Interim EOT for MTHL Package 3 Contract. The Contract was awarded to M/s L&T with the commencement date 23.08.2018 and as per the earlier approved EOT, completion period was 06.08.2023.

The GC vide their letter dated 27.09.2023, verified the reasons for delay and critical path for completion of the balance work and recommended to MMRDA for approving interim EOT up to 23.11.2023, pending the final determination of the Engineer as per terms of the Contract. Extension of the Key Date and the dates of Financial Milestones shall be determined as part of the final determination.

As per the recent discussion held with the Contractor, the Contractor is directed to complete the works by 15.12.2023, which was apparently agreed by the Contractor. The proposal for concurrence of JICA is processed separately.

As the earlier granted EOT was expired on 06.08.2023, and the time limit of extension recommended by GC seems acceptable considering the reasons stated in review meeting and discussion with the contractor, Employer is hereby provide approval for Extension of time up to 07.12.2023.

We have reviewed the GCs recommendations and hence agreed to consider the EOT.

This is for your kind information.

Thanking you.

Yours faithfully,


(S.A. Wandhekar)
Engineer-In-Chief

मुंबई महानगर प्रदेश विकास प्राधिकरण

वांद्रे-कुर्ला संकुल, वांद्रे (पूर्व), मुंबई ४०००५१.

ईपीएबीएक्स +९१ २२ २६५१ ०००१/ ४०००

<https://mmrda.maharashtra.gov.in>

**General Consultant for Mumbai Trans Harbour Link Project****Ref No: MTHL/P1/GC/L&T-IHI/LT/CNT- 4029 /2023****23rd November 2023**

To,
L&T – IHI Consortium
MTHL Pkg 1 Project Office,
Gate No. 01, Sewri Timber Pond (STP) Yard,
Near Gadi Adda, Sewri (E)
Mumbai – 400015.

Project: Procurement of Mumbai Trans Harbour Link Project (Package-1)- Construction of 10.380 km long bridge section (CH 0+000 to CH10+380) across the Mumbai Bay Including Sewri Interchange. Contract No: MMRDA/ENG1/000752 dated 26th December 2017.

Sub: Approval for Interim Extension of Time – Package 1 (EOT – 06 R1).

Ref:

1. MTHL/P1/LT-IHI/GC/LT/CNT-0004500/2021 dated 09.04.2021.
2. MTHL/P1/LT-IHI/GC/LT/CNT-0004800/2021 dated 24.06.2021.
3. MTHL/P1/LT-IHI/LT/CNT-3065/2021 dated 25.11.2021.
4. MTHL/P1/GC/L&T-IHI/LT/CNT/2021/3065 dated 25.11.2021.
5. MTHL/P1/LT-IHI/GC/LT/CNT-0005320/2021 dated 02.12.2021.
6. MTHL/P1/LT-IHI/LT/CNT-3324/2022 dated 06.06.2021.
7. MTHL/P1/LT-IHI/GC/LT/CNT-0005754/2022 dated 27.04.2022.
8. MTHL/P1/GC/L&T-IHI/LT/PJC-3342/2022 dated 04.06.2022.
9. MTHL/P1/LT-IHI/GC/LT/CNT-0006224/2022 dated 29.09.2022.
10. MTHL/P1/LT-IHI/GC/LT/CNT-0006627/2022 dated 13.03.2023.
11. MTHL/P1/LT-IHI/GC/LT/CNT-0006749/2023 dated 12.05.2023.
12. MTHL/P1/LT-IHI/LT/CNT-3890/2023 dated 31.08.2023.
13. MTHL/P1/LT-IHI/GC/LT/PJC-00007029/2023 dated 12.09.2023.
14. MTHL/P1/LT-IHI/GC/LT/CNT-0007042/2023 dated 21.09.2023.
15. MTHL/P1/LT-IHI/GC/LT/CNT-0007118/2023 dated 20.10.2023.
16. MTHL/P1/LT-IHI/GC/LT/CNT-0007042/2023 dated 26.10.2023.
17. MMRDA/MTHL/P1/GCEOT-02/2411/2023 Dated 17.11.2023.

Dear Sir,

This has reference to MMRDA letter no 2411/2023 dated 17.11.2023, the Employer has approved an Interim Extension of Time for a period of 76 days. The approved completion date will be 15.12.2023. Key Dates and Financial Milestones shall be determined as part of final determination separately.

Therefore, you are required to submit the revised work programme with the completion date as 15.12.2023, in accordance with GCC Clause 8.3 (Programme).



You shall extend the validity of insurances, Performance Bank Guarantee and any other licences and permits required to execute the Contract.

Thanking you,
Yours faithfully,

K.R.Shivananda
The Engineer
General Consultant (MTHL)

Encl: MMRDA letter: MMRDA/MTHL/P1/GCEOT-02/2411/2023 Dated 17.11.2023.

CC: Engineer-in-Chief, MMRDA.

Superintending Engineer – MMRDA - Mr. Purushottam Nimje

Executive Engineer – MMRDA – Mr. Arjun Korgaonkar



By Email

No: MMRDA/MTHL/P1/GC/EOT-2/24/11 /2023

Date: 17.11.2023

To,
The Team Leader,
M/s AECOM Asia Company Ltd.
(In Consortium with PADECO Co. Ltd –
Dar-Al-Handasah - T.Y. Lin International)
6th floor, A Wing, MMRDA Bldg (Old),
E-Block, BKC, Bandra (East) Mumbai-51.

Sub: Mumbai Trans Harbour Link Project (Package-1)

--- Approval to Interim Extension of Time limit to M/s L&T-IHI for completion of contract for Pkg-1

- Ref:-**
1. Contract Agreement: MMRDA/ENG1/000754 dated 26.12.2017
 2. MMRDA's Letter of Acceptance (LOA) to M/s L&T-IHI dated 17.11.2017
 3. GC's letter of Commencement to L&T dated 23.03.2018
 4. MMRDA's letter No. 751 dated 22/11/2021 for approval of EOT up to 30.09.2023.
 5. GC's recommendation to MMRDA vide letter no. Letter MTHL/P1/GC/MMRDA/LT/CNT-3818/2023 dated 27th September 2023.

Sir,

This has reference to the letters received by General Consultant referred above for Interim EOT for MTHL Package 1 Contract. The Contract was awarded to M/s L&T-IHI Consortium with the commencement date 23.08.2018 and as per the earlier approved EOT, completion period was 30.09.2023.

The GC vide their letter dated 27.09.2023, verified the reasons for delay and critical path for completion of the balance work and recommended to MMRDA for approving interim EOT up to 23.12.2023, pending the final determination of the Engineer as per terms of the Contract. Extension of the Key Date and the dates of Financial Milestones shall be determined as part of the final determination.

As per the recent discussion held with the Contractor, the Contractor is directed to complete the works by 15.12.2023, which was apparently agreed by the Contractor. The proposal for concurrence of JICA is processed separately.

As the earlier granted EOT was expired on 30.09.2023, and the time limit of extension recommended by GC seems acceptable considering the reasons stated in review meeting and discussion with the contractor, Employer is hereby provide approval for Extension of time up to 15.12.2023.

This is for your kind information.

Thanking you. .

Yours faithfully,


(S.A. Wandhekar)
Engineer-In-Chief

Mumbai Metropolitan Region Development Authority

Bandra-Kurla Complex, Bandra East, Mumbai 400 051.

EPABX +91 22 2659 0001 / 4000

<https://mmrda.maharashtra.gov.in>

**Ref No: MTHL/P1/GC/MMRDA/LT-IHI/CNT-3818 /2023****27th September 2023**

To,
Engineer-In-Chief
Engineering Division
Mumbai Metropolitan Regional Development Authority (MMRDA)
2nd Floor, New MMRDA Building,
Plot No R-06 & R-12, 'E' Block
Bandra Kurla Complex, Bandra (E),
Mumbai, Maharashtra, India 400051.

Project: Procurement of Mumbai Trans Harbour Link Project (Package-1) - Construction of 10.380 km long viaduct section (CH 0+000 to CH 10+380) across the Mumbai Bay including Sewri Interchange. Contract No.: MMRDA/ENG1/000752

Sub: Application for Interim Extension of Time – Package 1 delays up to 31.08.2023

Ref:

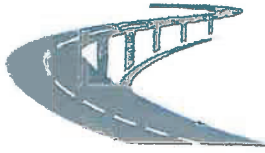
1. MTHL/P1/LT-IHI/GC/LT/CNT-0004500/2021 dated 09.04.2021.
2. MTHL/P1/LT-IHI/GC/LT/CNT-0004800/2021 dated 24.06.2021.
3. MTHL/P1/LT-IHI/LT/CNT-3065/2021 dated 25.11.2021.
4. MTHL/P1/GC/L&T-IHI/LT/CNT/2021/3065 dated 25.11.2021.
5. MTHL/P1/LT-IHI/GC/LT/CNT-0005320/2021 dated 02.12.2021.
6. MTHL/P1/LT-IHI/LT/CNT-3324/2022 dated 06.06.2021.
7. MTHL/P1/LT-IHI/GC/LT/CNT-0005754/2022 dated 27.04.2022.
8. MTHL/P1/GC/L&T-IHI/LT/PJC-3342/2022 dated 04.06.2022.
9. MTHL/P1/LT-IHI/GC/LT/CNT-0006224/2022 dated 29.09.2022.
10. MTHL/P1/LT-IHI/GC/LT/CNT-0006627/2022 dated 13.03.2023.
11. MTHL/P1/LT-IHI/GC/LT/CNT-0006749/2023 dated 12.05.2023.
12. MTHL/P1/LT-IHI/LT/CNT-3890/2023 dated 31.08.2023.
13. MTHL/P1/LT-IHI/GC/LT/PJC-00007029/2023 dated 12.09.2023.
14. MTHL/P1/LT-IHI/GC/LT/CNT-0007042/2023 dated 21.09.2023.

Dear Sir,

This has reference to the letters cited under reference regarding the above-mentioned subject.

In response to the Contractor's earlier request for extension of Time for Completion (EOT) Application for a period of 962 days accounting for all delays up to 31.12.2020 vide letter mentioned at reference no. 1&2 above. the Engineer vide letter no. 3065 dated 25.11.2021 had approved an extension of time of 374 days with revised extended date of completion as 30.09.2023, based on the approval received from the Employer. This extension of time was granted based on the delays up to 25.09.2020.

Subsequently, the Contractor submitted a Revised Works Program vide letter mentioned at reference no.7. with the Project completion date as 30.09.2023. The Engineer has issued "NONO" for the Revised works Program vide letter mentioned at reference no.8, Monthly Updated Program along with Monthly Progress Report – 65 with actual work done as on 25.08.2023 vide letter mentioned at reference no. 13, wherein the Project Completion Forecast date was 20.02.2024 and an Extension of Time EOT-06 Application vide letter mentioned at reference no. 14. Wherein the Contractor requested for 324 days extension with project completion date as 19.08.2024.



Accordingly, and considering that the earlier granted EOT is expiring on 30.09.2023, in view of the Engineer, an interim EOT can be granted to the Contractor pursuant to Sub-Clause 8.4 of GCC. As per the recent discussion held with the Contractor, the Employer had directed the Contractor to complete the works by 15.12.2023, which was apparently agreed by the Contractor.

In view of the above, to avoid the contractual implications, as the earlier granted EOT is expiring on 30.09.2023, the Engineer hereby recommends to the Employer to extend the Time for Completion of the Works till 23.12.2023, on an interim basis, pending the final determination of the Engineer as per terms of the Contract. Extension of the Key Date and the dates of Financial Milestones shall be determined as part of the final determination.

A detailed EOT-6 application submitted by the Contractor along with the approach and methodology adopted is attached to this letter.

Upon approval of aforesaid Interim extension of time, the Contractor shall be instructed to extend the validity of contractual documents such as Insurances, Performance Bank Guarantees, and any other Licenses and Permits required to execute the Works during the extended period.

Thanking you,
Yours faithfully,

K.R. Shivananda
The Engineer
General Consultant (MTHL)

CC: Superintending Engineer – MMRDA – Mr. Purushottam Nimje
Executive Engineer – MMRDA – Mr. M P Singh

By Email

TEST REPORT NO	LT/WL/01-24/001
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PRODUCT TESTED	<ol style="list-style-type: none"> 1. Highness Street Light 335W 2. Highness Street Light 400W 3. Adornis Mid G2 – 230W 4. Transformer G20 Flood Light 400W
TYPE REF	LED Street Light & Flood Light
MODEL NO	<ol style="list-style-type: none"> 1. ISHSL33530NDGYP00060C01 2. ISHSL40030NDGYP00060C02 3. ISAAS23030NDSYP00050C01 4. IFTOG40030NDBKP030C15
MAKE	LT (Lighting Technologies)
STANDARD REF	IEC 60598-1 IS 10322 (Part 5/ Sec 3) IS 10322 (Part 5/ Sec 5) IS 16103
REPORT RELEASE DATE	04-Jan - 2023
REPORT NO	LT/WL/01-24/001

EQUIPMENT USED

1	Integrating Sphere SP3000- MD/TECH/ELEC/028
2	Digital Power meter - MD/TECH/ELEC/020

TEST METHODOLOGY

- Test Sample condition – New and test sample stabilization Time: 60 Minutes.
- Test ambient temperature: (25±1) C°.
- Test sample Orientation (burning position): Normal burning position i.e. at zero-degree inclination to horizontal.
- Chromaticity coordinates, Correlated Colour Temperature and Colour Rendering Index were calculated from the Spectral Radiant Flux Measurement over the range of 350 to 780 nm.

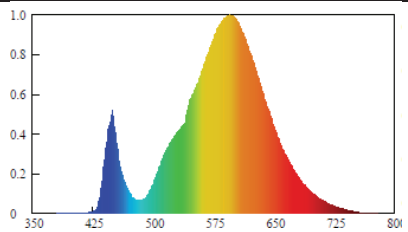
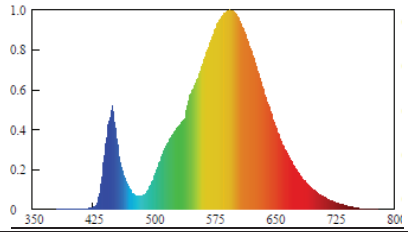
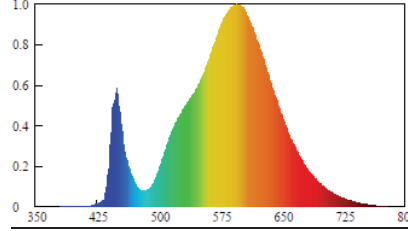
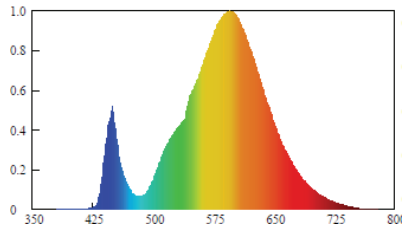
LABORATORY - ENVIRONMENTAL CONDITION



- ◆ **Temperature:** (25±1)°C (Recorded Value : 25.5 °C)
- ◆ **Humidity** : 45% - 75% RH (Recorded Value : 66.4% RH)

Format No:	LT/FF/TECH/36-R	Format Amendment No	
Issue No	02	Amendment Date	
Format Issue Date	04-July-2018		

TEST REPORT NO	LT/WL/01-24/001
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TEST RESULT:

SL .No	Test Sample Details	Measured Result	Wave form Ref	Remarks.
1	Product: Highness Street Light 335W Code Ref ISHSL33530NDGYP00060C01	Peak Wave length: 595 nm Dominant Wave length: 582 nm CCT: 3058K		OK
2	Product: Highness Street Light 400W Code Ref ISHSL40030NDGYP00060C02	Peak Wave length: 595 nm Dominant Wave length: 582 nm CCT: 3025K		OK
3	Product: Adornis Mid G2 – 230W Code Ref ISAAS23030NDSYP00050C01	Peak Wave length: 595 nm Dominant Wave length: 581 nm CCT: 3027K		OK
4	Product: Transformer G20 Flood Light 400W Code Ref IFTOG40030NDBKP030C15	Peak Wave length: 595 nm Dominant Wave length: 582 nm CCT: 3085K		OK

Report prepared By	Approved By/ Authorized Signatory
	
Anees A.P - Test Engineer	Parameswaran. S - Technical Manager

Format No:	LT/FF/TECH/36-R	Format Amendment No	
Issue No	02	Amendment Date	
Format Issue Date	04-July-2018		

PROJECT: Mumbai Trans Harbour Link Road (MTHL) DOCUMENT REFERENCE : Division 5-C- Electrical Specification (ERG - 112) MEASUREMENT METHOD : NLC SP 72:2010 - 9 Point Method			Lux Level (Minimum) 40lux		Overall Uniformity 0.4	Transvers Uniformity 0.33
PARAMETERS	AS PER DESIGN	AS PER SITE	LUX LEVEL READINGS			
ROAD DIMENSIONS	14m+0.5m+14m	14m+0.5m+14m	84	100	87	
PRODUCT	LT Highness 335w	LT Highness 335w	112	115	126	
ARRANGEMENT	On Median	On Median	55	68	52	
MOUNTING HEIGHT	10.25m	10.25m				
BRACKET LENGTH	2m/2.5m	2m/2.5m				
BRACKET TILT	5deg	5deg				
GRID POINTS	9 Point Method	9 Point Method				
POLE SPACING	32m	32m				
P241 — P242						

Date	29/12/23
Time	7:22PM
EMIN	52
EMAX	126
EAVG	96.87
EMIN/EAVG	0.536
EMIN/EMAX	0.412

Diurnal Test Conducted
by PA, witnessed and
found OK

A. Venkatesh
29/12/2023

Madhuram
Madduram
(Strabag QA)
29/12/2023

PROJECT: Mumbai Trans Harbour Link Road (MTHL) DOCUMENT REFERENCE : Division 5-C- Electrical Specification (ERG - 112) MEASUREMENT METHOD : NLC SP 72:2010 - 9 Point Method			Lux Level (Minimum) 40lux		Overall Uniformity 0.4	Transvers Uniformity 0.33
PARAMETERS	AS PER DESIGN	AS PER SITE	LUX LEVEL READINGS			
ROAD DIMENSIONS	14m+0.5m+14m	14m+0.5m+14m	85	109	93	
PRODUCT	LT Highness 335w	LT Highness 335w	113	130	134	
ARRANGEMENT	On Median	On Median	52	70	66	
MOUNTING HEIGHT	10.25m	10.25m				
BRACKET LENGTH	2m/2.5m	2m/2.5m				
BRACKET TILT	5deg	5deg				
GRID POINTS	9 Point Method	9 Point Method				
POLE SPACING	32m	32m				
P241 — P242						

Date	29/12/23
Time	7:35pm
EMIN	52
EMAX	134
EAVG	104.25
EMIN/EAVG	0.498
EMIN/EMAX	0.388

For LT India
B. Venkatesh
29/12/23

Mohammad Amanullah Q
STRABAG
29/12/23

PROJECT: Mumbai Trans Harbour Link Road (MTHL)

DOCUMENT REFERENCE : Division 5-C- Electrical Specification (ERG - 112)

MEASUREMENT METHOD : NLC SP 72:2010 - 9 Point Method

Lux Level
(Minimum)

Overall
Uniformity

Transvers
Uniformity

40lux

0.4

0.33

PARAMETERS	AS PER DESIGN	AS PER SITE	LUX LEVEL READINGS		
ROAD DIMENSIONS	14m+0.5m+14m	14m+0.5m+14m	P109 70	76	P110 76
PRODUCT	LT Highness 335w	LT Highness 335w	104	81	114
ARRANGEMENT	On Median	On Median	76	55	66
MOUNTING HEIGHT	10.25m	10.25m			
BRACKET LENGTH	2m/2.5m	2m/2.5m			
BRACKET TILT	5deg	5deg			
GRID POINTS	9 Point Method	9 Point Method			
POLE SPACING	32m	32m			

P109 - P110

Date	29/12/23
Time	8:28 PM
EMIN	55
EMAX	114
EAVG	81.87
EMIN/EAVG	0.67
EMIN/EMAX	0.48

Dialux Test Conducted by PA and
Confirmed. Results are found OK.

At Vengal Rao 29/12/2023

MA
Madhusudan
Strabag QA
29/12/2023

PROJECT: Mumbai Trans Harbour Link Road (MTHL)

DOCUMENT REFERENCE : Division 5-C- Electrical Specification (ERG - 112)

MEASUREMENT METHOD : NLC SP 72:2010 - 9 Point Method

Lux Level
(Minimum)

Overall
Uniformity

Transvers
Uniformity

40lux

0.4

0.33

PARAMETERS	AS PER DESIGN	AS PER SITE	LUX LEVEL READINGS		
ROAD DIMENSIONS					
PRODUCT					
ARRANGEMENT					
MOUNTING HEIGHT					
BRACKET LENGTH					
BRACKET TILT					
GRID POINTS					
POLE SPACING					

Date	
Time	
EMIN	
EMAX	
EAVG	
EMIN/EAVG	
EMIN/EMAX	

MA
Mohammad Aman Ullah Q
STRABAG
29/12/23

For LT India
B. Vengal Rao
29/12/23

PROJECT: Mumbai Trans Harbour Link Road (MTHL)

DOCUMENT REFERENCE : Division 5-C- Electrical Specification (ERG - 112)

MEASUREMENT METHOD : NLC SP 72:2010 - 9 Point Method

Pkg 2

Lux Level
(Minimum)

Overall
Uniformity

Transvers
Uniformity

40lux

0.4

0.33

PARAMETERS	AS PER DESIGN	AS PER SITE	LUX LEVEL READINGS				
ROAD DIMENSIONS	7m	7m	44	70	51		
PRODUCT	LT Adornis 230w	LT Adornis 230w	69	85	77	Date	29/12/23
ARRANGEMENT	Single Side	Single Side	75	65	75	Time	8:07 PM
MOUNTING HEIGHT	10.25m	10.25m				EMIN	44
BRACKET LENGTH	1m	1m				EMAX	85
BRACKET TILT	0deg	0deg				EAVG	71.68
GRID POINTS	9 point Method	9 point Method				EMIN/EAVG	0.61
POLE SPACING	27m	27m				EMIN/EMAX	0.51

Ramp Jmp (No.5) P4-P5

Discluse Test conducted by Pa,
witnessed and results are found
ok.

A. Venkatesh
29/12/2023

PROJECT: Mumbai Trans Harbour Link Road (MTHL)

DOCUMENT REFERENCE : Division 5-C- Electrical Specification (ERG - 112)

MEASUREMENT METHOD : NLC SP 72:2010 - 9 Point Method

Pkg 1

Lux Level
(Minimum)

Overall
Uniformity

Transvers
Uniformity

40lux

0.4

0.33

PARAMETERS	AS PER DESIGN	AS PER SITE	LUX LEVEL READINGS				
ROAD DIMENSIONS	7m	7m	50	68	51		
PRODUCT	LT Adornis 230w	LT Adornis 230w	70	76	78	Date	29/12/23
ARRANGEMENT	Single Side	Single Side	66	58	70	Time	9:34 PM
MOUNTING HEIGHT	10.25m	10.25m				EMIN	50
BRACKET LENGTH	1m	1m				EMAX	78
BRACKET TILT	0deg	0deg				EAVG	68.06
GRID POINTS	9 point Method	9 point Method				EMIN/EAVG	0.73
POLE SPACING	27m	27m				EMIN/EMAX	0.64

Ramp B2 (Pole 15-16)

Madhur
Maddur
29/12/2023

A. L.
29/12/23
MONOMAN AMANULLAH Q
STRABAG

For LT India
B. Venkatesh
29/12/23