

No. MMRDA/MTHL-PIU/JICA/QPR-21/1293/2022

Date: 20th July 2022

To, Chief Representative,Mumbai Trans Harbour Link Project (I)
16th Floor, Hindustan Times House,
18-20, Kasturba Gandhi Marge, New Delhi-110-001

Kind Attn: Mr. Katsuo Matsumoto,

Sub: Mumbai Trans Harbour Link Project (I) (ID-P255)

 Quarterly Progress Report (QPR) No. 21 for April 2022 to June 2022.

Sir,

The loan agreement for the Official Development Assistance (ODA) loan for the Mumbai Trans Harbour Link Project (I) is signed between Mumbai Trans Harbour Link Project (I) and Mumbai Metropolitan Region Development Authority (MMRDA) on 31st March 2017 & 29th March 2020 with MMRDA as a direct borrower of the loan.

The Quarterly Progress Report (QPR) No. 21 for the Mumbai Trans Harbour Link Project (I) for the period of April 2022 to June 2022 is enclosed herewith for information please.

Thanking you.

Yours faithfully,

Encl.: QPR-21 (April 2022 to June 2022)

(S. A. Wandhekar) Engineer- In- Chief



Mumbai Metropolitan Region Development Authority

Mumbai Trans Harbour Link Project

Quarterly Progress Report - No. 21

(From 1st April 2022 to 30th June 2022)



Mumbai Trans Harbour Link Project Quarterly Progress Report No. 21 1st April 2022 to 30th June 2022 Loan Agreement No. ID-P255 (Tranche-I)

ORGANIZATION INFORMATION

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

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



DOCUMENT VERIFICATION AND REVISION RECORD

PROJ	ECT NAME	Mumbai Trans Harbour Link Project	<u> </u>			
DOC	NO.	21		DATE	OF ISSUE	12/07/2022
DOC	TITLE	Quarterly Progress Report No. 21				
REV No.	DATE OF ISSUE	DESCRIPTION	PREPARED BY		CHECKED BY	APPROVED BY
RO	05/07/2017	Quarterly Progress Report No. 1 (Apr-Jun 17)	J Se	nthil	Dr T K Sundaram	Dr Robin Sham
RO	05/10/2017	Quarterly Progress Report No. 2 (Jul-Sep 17)	J Se	nthil	Dr T K Sundaram	Dr Robin Sham
RO	05/01/2018	Quarterly Progress Report No. 3 (Oct-Dec 17)	J Se	nthil	Dr T K Sundaram	Dr Robin Sham
RO	05/04/2018	Quarterly Progress Report No. 4 (Jan-Mar 18)	J Sei	nthil	Dr T K Sundaram	Dr Robin Sham
RO	24/07/2018	Quarterly Progress Report No. 5 (Apr-Jun 18)	Prash	ant B	Dr T K Sundaram	Dr Robin Sham
RO	10/10/2018	Quarterly Progress Report No. 6 (Jul-Sep 18)	Prash	ant 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	
RO	05/04/2019	Quarterly Progress Report No. 8 (Jan-Mar 19)	Prash	Prashant B J		V. D. Sharma/ Dr Robin Sham
RO	18/09/2019	Quarterly Progress Report No. 9 (Apr-Jun 19)	Prash	ant B	Mr. Som Ghosh	Dr Robin Sham
RO	13/11/2019	Quarterly Progress Report No. 10 (Jul-Sep 19)	Prasha	ant B	Mr. Som Ghosh	Dr Robin Sham
RO	11/02/2020	Quarterly Progress Report No.11 (Oct-Dec 19)	Prasha	ant B	Mr. Som Ghosh	Dr Robin Sham
RO	25/11/2020	Quarterly Progress Report No.12 (Jan-Mar 20)	Prasha	ant B	Mr. Som Ghosh	Dr Robin Sham
RO	15/12/2020	Quarterly Progress Report No.13 (Apr-Jun 20)	Prasha	ent B	Mr. Som Ghosh	Dr Robin Sham
RO	06/01/2021	Quarterly Progress Report No.14 (Jul-Sept 20)	Prasha	ant B	Mr. Som Ghosh	Dr Robin Sham
RO	12/02/2021	Quarterly Progress Report No.15 (Oct-Dec 20)	Prasha	nt B	Mr. Som Ghosh	Dr Robin Sham
RO	06/05/2021	Quarterly Progress Report No.16 (Jan-Mar 21)	Prasha	int B	Mr. Som Ghosh	Dr Robin Sham
RO	30/07/2021	Quarterly Progress Report No.17 (Apr-Jun 21)	Prasha	int B	Mr. Som Ghosh	Dr Robin Sham
RO	11/11/2021	Quarterly Progress Report No.18 (Jul - Sep 21)	Prasha	nt B	Mr. Som Ghosh	Dr Robin Sham
RO	17/01/2022	Quarterly Progress Report No.19 (Oct-Dec 21)	Prasha	nt B	Mr. Som Ghosh	Dr Robin Sham
RO	22/04/2022	Quarterly Progress Report No.20 (Jan - Mar 22)	Prasha	nt B	Mr. Som Ghosh	Dr Robin Sham
RO	12/07/2022	Quarterly Progress Report No.21 (Apr-Jun 22)	Prasha	nt B	Mr. Som Ghosh	Dr Robin Sham



Contents

1.0 PR	ROJECT DESCRIPTION	5
1.2	Project Objective	5
2.0 PR	OJECT IMPLEMENTATION	9
2.2 2.3.1.a 2.3.1.b 2.4 2.4.1 2.4.2 2.4.2.1 2.4.2.2 Consulf Contrac Packag Packag Packag Packag Packag Packag Packag	Comparison of Originally Planned and Actually Incurred Cost BY YEAR Organization for Implementation Executing Agency Contractor(s)/ Supplier(s), and Consultant(s) and their Performance: Procurement & Consultant	11 12 12 14 15 15 16 16 17 17 18 19 20 21 22
_	NEFITS DERIVED FROM THE PROJECT (EFFECTIVENESS)	
3.2 P 3.3 E 3.4 C 3.5 M	Operational and Physical Condition	24 26 29 30
4.0 O	DPERATION AND MAINTENANCE (O&M) (SUSTAINABILITY)3	1
4.2 O	D&M and Management	1
	ICA and Borrower / Executing Agency performance	
5.2 O 5.3 Le ATTAC ATTAC ATTAC ATTAC ATTAC	Overall Evaluation	2 3 6 7 9 1
ATTAC	THMENT 7- PACKAGE-2'S CONSTRUCTION PROGRAMME UPDATED AS OF 25 TH JUNE 2022	
ATTACI	HMENT 9- PROJECT PROGRESS PHOTOS FOR JUNE 2022	5



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 Acton 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. The Government of Maharashtra (GoM), of which Mumbai Metropolitan Region is under 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:

1st April to 30th June 2022



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:

Vehicle Type		Sewri Interc ar Interchange	hange and	Between Sh Chirle Interd	vaji Nagar Interchange and hange		
	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	

Table 1.3.1 Demand Projections Over the Period

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.
- 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

	Original: (P/M)	
Location	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)	 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)	 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)	 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) 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 Noise Barriers & View Barriers

Items	Original	Actual
Package-4 ITS (Intelligent Transport System)	 Administrative Buildings Toll Booths (1 for main alignment and each on and off rumps 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-Classifier (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	 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 and Actua	Status (P/R and PCR)	
1			as on 30th June 2022	
1)	Completion of Land Acquisition and Resettlement	March 2019	Sept 2022	
2)	Consulting Services		· · · · · · · · · · · · · · · · · · ·	
	a) Selection of Consultant	May – December 2016	May - December 2016	
	b) Consultancy Works	December 2016 – September 2024	December 2016 – September 2024	
3)	Selection of Contractor		endroning and engineering	
Pa	ckage-1, Package-2 & Package-			
	a) Pre-Qualification Process	May – December 2016	May - December 2016	
	b) Main Bidding	January - December 2017	January - December 2017	
	c) JICA's Concurrence of Contract	February-2018	February-2018	
Pa	ckage-4 (ITS)			
	a) Pre-Qualification Process	Single Stage Bidding as	s concurred by JICA	
	b) Main Bidding	June 2019 – September 2020	Jan 2021 – Dec 2021	
4)	Civil Construction			
Pad	ckage-1 and Package-2	March 2018 – September 2022	March 2018–September 2023 (Extended)	
Pac	ckage-3	March 2018 – September 2021	March 2018 – March 2023 (Extended)	
Pac	ckage-4	October 2020 – September 2022	June 2022 – August 2023	
5)	Defect Liability Period			
Pac	kage-1 and Package-2	October 2022 – September 2024	October 2023 – September 2025	
Pac	kage-3	October 2021 – September 2023	April 2023 – March 2025	
Pac	kage-4	October 2022 – September 2024	Sept 2023 – August 2025	
	Commencement of Toll Collection	September 2022	October 2023	
,	Selection of O&M Organization	October 2020 – September 2021	October 2022 – September 2023	

Attachment 6, 7 & 8: Package wise construction schedules (progress) updated at the end of 1st Quarter (April – May - June 2022).

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

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

	Foreign	Currency	Portion	Local	Currency F	ortion	Total		
Cost Breakdown	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	34,398	34,398	0	45,376	45,376	0	105,713	105,713	0
Package-2	26,513	26,513	0	32,617	32,617	0	77,774	77,774	0
Package-3	759	759	0	8,276	8,276	0	13,766	13,766	0
Package-4 (ITS)	0	0	0	1,444	1,444	0	2,269	2,269	0
Package-5 (Geotechnical Investigation)	0	0	0	166	0	166	260	0	260
Dispute Boards (Package-1, 2, 3 & 4)	63	63	0	45	45	0	134	134	0
Price Escalation	2,251	2,251	0	7,133	7,133	0	13,460	13,460	0
Physical Contingency	6,398	6,398	0	9,506	9,489	17	21,338	21,312	26
Consulting Services	1,650	1,650	0	1,587	1,587	0	4,145	4,145	0
Land Acquisition*	0	0	0	11,293	0	11,293	17,748	0	17,748
Administration Cost	0	0	0	4,898	0	4,898	7,698	0	7,698
GST	0	0	0	18,238	0	18,238	28,663	0	28,663
Import Tax	0	0	0	13,435	0	13,435	21,114	0	21,114
Interest during construction	2,942	0	2,942	0	0	0	2,942	0	2,942
Front End Fee	477	0	477	0	0	0	477	0	477
Total	75,451	72,032	3,419	154,013	105,967	48,046	317,501	238,572	78,929

(Note) 1. Exchange Rate: US\$1=Rs. 71.9, US\$1=JPY 113.0, Rs.1 = JPY 1.57

2. Price Escalation (a) Foreign Currency Portion: 1.83% p.a. (b) Local Currency Portion: 4.13% p.a.

3. Physical Contingency: 10%

4. Base Year for Cost Estimation: December 2018

* Base Cost for Land Acquisition considered in the year 2016 was INR 9,062,669,696. The base cost has been revised to INR 11,293 million considering Price Escalation and 10% Physical Contingency.



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

	Foreig	n Currency	Portion	Local	Currency	Portion	Total		
Cost Breakdown	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	21,828	21,828	_	33,680	33,680		73,196	73,196	
Package-2	22,472	22,472	-	22,759	22,759		56,847	56,847	
Package-3	633	633	-	6,721	6,721		10,664	10,664	
Package-4 (ITS)	_		-	-			-		
Package-5 (Geotechnical Investigation)	-			196		196	308		308
Dispute Boards (Package-1, 2, 3 & 4)	-			-			-		-
Price Escalation	-			4	4		6	6	-
Physical Contingency	-			-	-		-		-
Consulting Services	253	253		362	362		1,108	1,108	
Land Acquisition*	-			7,601		7,601	11,933		11,933
Administration Cost	-			4,936		4,936	7,749		7,749
GST	-			14,014		14,014	22,002		22,002
Import Tax	-			-			-		-
Interest during construction	-			-			-		-
Front End Fee	-			-			-		-
Total	45,186	45,186	-	90,273	63,524	26,747	183,813	141,821	41,992

- (Note) 1. Exchange Rate: Rs.1 = JPY 1.57 for MMRDA Portion only
 - 2. Price Escalation (a) Foreign Currency Portion: 1.83% p.a.
 - (b) Local Currency Portion: 4.13% p.a.
 - 3. Physical Contingency: 10%
 - 4. Base Year for Cost Estimation: December 2018
 - * Base Cost for Land Acquisition considered in the year 2016 was INR 9,062,669,696. The base cost has been revised to INR 11,293 million considering Price Escalation and 10% Physical Contingency.



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	Total		Others			
Breakdown	Total	Tranche I	Tranche II	Tranche III	Sub Total	(MMRDA Portion)
FY 2017	12,679	10,134	0	0	10,134	2,545
FY 2018	30,771	22,707	0	0	22,707	8,064
FY 2019	72,379	56,816	0	0	56,816	15,563
FY 2020	92,944	55,138	16,040	0	71,178	21,765
FY 2021	66,397	0	50,869	0	50,869	15,527
FY 2022	27,683	0	0	20,113	20,113	7,570
FY 2023	3,723	0	0	565	565	3,158
FY 2024	10,925	0	0	6,189	6,189	4,735
Total	317,501	144,795	66,909	26,868	238,571	78,929

Table 2.3.1.b.(ii) Actually Incurred Cost BY YEAR

(All Figures are in JPY mil)

Cost	Total		Others			
Breakdown	Total	Tranche I	Tranche II	Tranche III	Sub Total	(MMRDA Portion)
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	31,859	23,922	-	-	23,922	7,937
FY 2021	54,021	43,248	-	-	43,248	10,773
FY 2022	16972	12,710	-	-	12,710	4,262
FY 2023						
FY 2024						
Total	183,813	141,821	-		141,821	41,992

(Note) 1. Exchange Rate used: Rs.1 = JPY 1.57 for MMRDA Portion only

- 2. Fiscal Year starting from 1st April and ending on 31st March.
- **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 26thJanuary 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 February 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 Biding 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 April 2012. Employment of consultants should be implemented in accordance with "Guidelines of Employment of Consultant under Japanese ODA Loans", dated in April 2012. "Principles of Procurement under the Project" is attached for 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	Selection Method						
Package	Original: (P/M)		Actual: (P/R and PCR)				
Construc	tion Works						
1	Package-1: 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	Package-3: 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	Package-4: 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	Package-5: To conduct the geotechnical investigation	Local Competitive Bidding Process	No Change				
Consulting	Consulting Services						
1	Consulting Service for Supervision	Short List Method (QCBS)	No Change				



2.4.2.2 Performance

Consultant's Progress:

April 2022:

- 1 GC scrutinized & certified the following invoices claimed by the Contractors:
 - i) Package-1: IPC-49 20% Detailed Verification and IPC-51 80% Ad-hoc.
 - ii) Package-2: IPC-47 20% Detailed Verification and IPC-48 80% Ad-hoc.
 - iii) Package-3: IPC-43 20% Detailed Verification and IPC-44 80% Ad-hoc.
- 2 GC has prepared and submitted a total reimbursement claim of 10387.79 million JPY to MMRDA / JICA in April 2022.

May 2022:

- 1 GC scrutinized & certified the following invoices claimed by the Contractors:
 - i) Package-1: IPC-50 20% Detailed Verification and IPC-52 80% Ad-hoc.
 - ii) Package-2: IPC-48 20% Detailed Verification and IPC-49 80% Ad-hoc.
 - iii) Package-3: IPC-44 20% Detailed Verification and IPC-45 80% Ad-hoc.
- 2 GC has prepared and submitted a total reimbursement claim of 991.05 million JPY to MMRDA / JICA in May 2022.

June 2022:

- 1 GC scrutinized & certified the following invoices claimed by the Contractors:
 - i) Package-1: IPC-51 20% Detailed Verification and IPC-53 80% Ad-hoc.
 - Package-2: IPC-49 20% Detailed Verification and IPC-50 80% Ad-hoc.
 - iii) Package-3: IPC-45 20% Detailed Verification and IPC-46 80% Ad-hoc.
- 2 GC has prepared and submitted a total reimbursement claim of 1412.15 million JPY to MMRDA / JICA in June 2022.
- 3 100% of the Technical Design Modules across all the 3 Packages have been given "NONO" by the GC.
- 4 Approximately 99% 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 - 99%, Package-3 -100%

5 Package-4 (ITS) - Letter of Acceptance (LOA) was issued to Strabag GmbH and Strabag AG JV on 5th May 2022.



Contractor's Progress:

Package-1 Physical Progress till 30th June 2022

S. No		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%		
1.2	Pile Caps	158	No.	125	79.11%		
1.3	Piers	228	No.	187	82.02%		
1.4	Pier Caps	228	No.	178	78.07%		
2	Permanent Bridge Works -	Intertidal Z	one				
2.1	Piles	312	No.	312	100%		
2.2	Pile Caps	75	No.	75	100%		
2.3	Piers	146	No.	146	100%		
2.4	Pier Caps	146	No.	146	100%		
3	Permanent Bridge Works - Marine Zone						
3.1	Piles	403	No.	403	100%		
3.2	Pile Caps	80	No.	80	100%		
3.3	Piers	162	No.	128	79.01%		
3.4	Pier Caps	162	No.	125	77.16%		
4	Permanent Bridge Works - 1	lotal					
4.1	Piles	1238	No.	1238	100%		
4.2	Pile Caps	313	No.	280	89.46%		
4.3	Piers	536	No.	461	86.01%		
4.4	Pier Caps	536	No.	449	83.77%		
5	Precast Segments						
5.1	Segment Casting	6713	No.	4972	74.07%		
5.2	Segment (Span) Erection+ Cast-in-Situ Slab	478	No.	268	56.07%		
6	OSD Structural Steel						
6.1	Fabrication	52726	МТ	53703	100%		
6.2	Assembly (Large Blocks)	52726	MT	19957	37.16%		
6.3	OSD Span Erection	38	No.	9	23.68%		

Package-2 Physical Progress	till	30th	June	2022
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S. No	Activity	Total Scope	Unit	Cumulative Achieved Works	% of Work done Against the Total Scope	Remarks
112	Permanent Bridge Works	Land/ Int	erchange	Zone		
1.1	Open Foundation	113	No.	113	100%	
1.2	Piers	119	No.	119	100%	
1.3	Pier Caps	105	No.	99	94%	
1.4	Portal Beams- Land	6	No.	6	100%	
1.5	Pier Head Segments -Land	42	No.	42	100%	
2 s	Permanent Bridge Works -	Intertidal	& CRZ Z	one 💮 💮		
2.1	Piles	280	No.	280	100%	
2.2	Pile Caps	72	No.	72	100%	
2.3	Piers	72	No.	72	100%	
2.4	Pier Caps	18	No.	18	100%	
2.5	Pier Head Segments	54	No.	54	100%	
3	Permanent Bridge Works -	Marine Zo	ne			
3.1	Piles	504	No.	504	100%	
3.2	Pile Caps	120	No.	117	98%	
3.3	Piers	120	No.	110.6	92%	
3.4	Pier Caps	48	No.	33	69%	
3.5	Pier Head Segments	74	No.	37	50%	
4	Permanent Bridge Works -	Total				
4.1	Open Foundation	113	No.	113	100%	
4.2	Piles	784	No.	784	100%	
4.3	Pile Caps	192	No.	189	98%	
4.4	Piers	311	No.	301.6	97%	
4.5	Pier Caps/ Portal Beams	177	No.	156	88%	
4.6	Pier Head Segments	170	No.	133	78%	
5	Precast Segments					
5.1	Segment Casting	3142	No.	2227	71%	
5.2	Segment (Span) Erection + Cast-in-Situ Slabs	272	No.	152	56%	
6	OSD Structural Steel					
6.1	Fabrication	34726	МТ	34,726	100%	
6.2	Assembly (for Large Block)	34726	MT	9863	28.40%	
6.3	OSD Span Erection	32	No.	6	18.75%	

Package-3 Physical Progress till 30th June 2022

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%	
1.2	Piles	24	No.	2	100%	
1.3	Pile Caps	4	No.	4	100%	
1.4	Piers	242	No.	231	95.45%	
1.5	Pier Caps	189	No.	178	94.18%	
1.6	Segment Casting	834	No.	834	100%	
1.7	Segment (Span) Erection	59	No.	44	74.58%	
1.8	Cast in-situ Slab	108	No.	82	75.93%	
1.9	ROB Span	20	No.	4	20%	

Package-4 (ITS) Progress till 30th June 2022

- 1. As recommended by the GC, JICA accorded concurrence for Single Stage Bidding (without Pre-Qualification) on 9th October 2020 and asked to submit draft Bid Document for review and approval.
- 2. The GC submitted first draft Bid Document to the Employer on 2nd November 2020 for review.
- 3. After reviewing the draft, MMRDA issued the observations on 29th December 2020 for further correction & amendments, etc. The GC is in the process of preparing the revised draft Bid Document.
- 4. The GC submitted the revised draft Bid Document to the Employer on 14th June 2021 for a review and further concurrence with JICA.
- 5. The Employer received JICA concurrence for the revised Bid Documents on 24th August 2021.
- 6. The Tender has been floated (published) on 3rd September 2021. A Pre-bid Meeting was arranged on 27th September 2021.
- 7. JICA concurrence for the Technical Evaluation Report received on 15th Feb 2022. The Financial Bid opened on 16th Feb 2022.
- 8. GC evaluated the Financial Bid, and the report was sent to the Employer on 28th March 2022 which they further sent to JICA. JICA concurrence for the Financial Evaluation Report is awaited.
- 9. JICA concurrence for the Financial Evaluation Report received on 21st April 2022.
- 10. Letter of Acceptance (LOA) was issued to Strabag GmbH and Strabag AG JV on 5th May 2022.

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.

Package-1 Safety Report

Sr. No	Description	From April to June 2022	Cumulative
1	Total Man Hours Since Inception	4,456,369	51,475,264
2	Number of Man-Hours (Accident-Free Man-Hours)	2,999,916	11,560,260
3	Number of Man-Days	557,046	6,434,407
4	Number of Reportable Fatal Accidents	0	6
5	Number of Non-Fatal Accidents	4	12
6	Number of Near Miss Incidents	9	126
7	Number of First Aid Cases	32	324
8	Number of Dangerous Occurrences	1	4
9	Number of Reportable Sick Cases	0	0
10	Number of Man-Hours Lost	3,240	297,544
11	Number of Man-Days Lost	433	37,221
12	Number of Reportable Accidents per 100,000 Man-Hours Worked	3	3
13	Number of Inspections done for Offices & Sites	90	4,003
14	Number of Training/ Induction done for Offices & Sites	410	3,059
15	Daily Average Manpower (Including all Workmen & Staff) for the Month	12,823	16,042
16	Details of Safety Committee meetings	3	46
17	No. of toolbox talks	13,460	138,407
18	No. of critical excavations.	3	81
19	Pre-employment Medical check-up	3,227	43,544
20	No. of Safety Walk down	22	284
21	No. of Safety Inductions completed	3,227	43,544



Package-2 Safety Report

Sr. No	Description	From April to June 2022	Cumulative
1	Total Man Hours Since Inception	2,857,910	27,569,190
2	Number of Man-Hours (Accident-Free Man-Hours)	2,597,848	3,288,725
3	Number of Man-Days	259,810	2,507,637
4	Number of Reportable Fatal Accidents	0	0
5	Number of Non-Fatal Accidents	1	10
6	Number of Near Miss Incidents	41	323
7	Number of First Aid Cases	11	179
8	Number of Dangerous Occurrences	3	18
9	Number of Reportable Sick Cases	0	2
10	Number of Man-Hours Lost	1,056	5,716
11	Number of Man-Days Lost	132	696
12	Number of Reportable Accidents per 100,000 Man-Hours Worked	1	1
13	Number of Inspections done for Offices & Sites	7,255	8,455
14	Number of Training/ Induction done for Offices & Sites	124	1,122
15	Daily Average Manpower (Including all Workmen & Staff) for the Month	10,278	12,650
16	Details of Safety Committee meetings	3	50
17	No. of toolbox talks	1,166	11,878
18	No. of critical excavations.	0	0
19	Pre-employment Medical check-up	851	16,599
20	No. of Safety Walk down	12	173
21	No. of Safety Inductions completed	960	17,007



Package-3 Safety Report

Sr. No	Description	From April to June 2022	Cumulative
1	Total Man Hours Since Inception	581,262	6,200,401
2	Number of Man-Hours (Accident-Free Man-Hours)	581,262	4,100,052
3	Number of Man-Days	72,658	775,051
4	Number of Reportable Fatal Accidents	0	0
5	Number of Non-Fatal Accidents	0	2
6	Number of Near Miss Incidents	4	28
7	Number of First Aid Cases	6	120
8	Number of Dangerous Occurrences	0	1
9	Number of Reportable Sick Cases	0	0
10	Number of Man-Hours Lost	0	2,312
11	Number of Man-Days Lost	0	289
12	Number of Reportable Accidents per 100,000 Man-Hours Worked	0	0
13	Number of Inspections done for Offices & Sites	59	897
14	Number of Training/ Induction done for Offices & Sites	32	298
15	Daily Average Manpower (Including all Workmen & Staff) for the Month	1,739	2,214
16	Details of Safety Committee meetings	4	47
17	No. of toolbox talks	598	7,942
18	No. of critical excavations.	3	12
19	Pre-employment Medical check-up	631	10,254
20	No. of Safety Walk down	12	177
21	No. of Safety Inductions completed	631	10,254



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 Countermeasure(s) Actual Issues and Countermeasure(s) 3.2.1 General Issues (P/R and PCR) 1. Toll Arrangement/ Toll Rate Fixed toll rate as per the type of vehicle Appropriate Tolling Policy/ Rates will be finalized will be levied for the road users after the by December 2021. 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 A single Operation and Maintenance Contractor the bridge and for Toll Management will be appointed by December 2021. System. Both the agencies for O & M and Toll Management System may appointed through open tendering process. Overall monitoring of the two agencies would be done by MMRDA inhouse through a separate cell which could be constituted for the purpose. MMRDA has confirmed to allocate an adequate budget for engaging the Contractors. (P/R and PCR) Environmental Social and Consideration MMRDA has disclosed Supplemental EIA &

3.2.2

CRZ Clearance a.

- 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

- 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 compliances of the approval conditions and maintained them throughout the construction phase.

CRZ Clearance, appropriate measures shall be taken, and necessary budget shall be secured by MMRDA.

- 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 longterm monitoring after the construction.
- 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.

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 November 2016	Mangrove cutting operation was completed with full compliance and as of now, no further follow up work is required.
Tree Cutting /Transplantati on	Respective Tree Authorities	Contractor for respective Packages	-	Pkg-1: Tree Cutting/ Transplantation permission from the Garden Dept., MCGM obtained on 24th December 2020. Pkg-2: Tree Cutting/ Transplantation permission obtained & completed. Pkg-3: Forest Department issued a concurrence on 19/05/2019. CIDCO's permission for Tree Cutting/ Transplantation obtained on 25th November 2019.
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	25th November 2019.
				TRAL CONESTIP

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)
1. Establishment of Effective	Cell is established by MMRDA
Environmental and Social Cell in PIU	(Annexure III, Organization chart)
MMRDA confirmed that Social Development Cell (2 Officers), Land Cell (3 Officers), and Environmental Cell (2 Officers) had been set up.	
2. Rehabilitation and Land Acquisition	Sewri: Involuntary resettlement in Sewri section
Issues	has been further validated by Social Development
a. Affected Area and Population Due to the Project, 1282 non-	Cell of MMRDA. Out of 297 Project Affected Households (PAHs) have given consents as follows:
titleholders will be involuntary resettled, and 108.09 ha of land will be handed over by CIDCO.	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
	Navi Mumbai: CIDCO has been finalizing the land acquisition closely monitored by Land Cell of MMRDA. Except private land and forest, CIDCO has possessed all required land of 108.09 ha. Out of the 108.09 ha, 106.345 ha has been handed over by CIDCO to MMRDA. CIDCO is going to acquire the balance 1.745 ha with the help of Collector, Raigad.
b. Entitlement Policy	
MMRDA prepared the entitlement matrix for resettlement of non-title holders in Sewri, which meets the Resettlement and Rehabilitation Policy	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.
for Mumbai Urban Transportation	SCONS HARBO

social

Project (1997, amended in 2000) and JICA guidelines for Environmental and

considerations

(2010)

Issue(s)	Action or countermeasure(s) taken and
	remaining problem(s)
("Guidelines") (Attachment 2-5).	
c. Compensation to Project affected	
Fishermen	Updated Attachments 2-8 and 2-10 are enclosed
Detailed baseline survey will be	in the report.
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	at .
impact during construction and	
operation phase.	
d. Implementation Schedule	Undeted Attachment 2.40 is such as the first
The Implementation schedule for land	Updated Attachment 2-10 is enclosed in the report.
acquisition, resettlement and	report.
rehabilitation is attached as per	
Attachment 2-10.	
e. Grievance Redressal Mechanism	3
Grievance Redressal Committee	Sewri: FLGRC (Field Level Grievance Redressal
("GRC") set under MMRDA will deal	Committee) and SLGRC (Senior Level Grievance
with grievances raised by PAPs in	Redressal Committee) were set as per the RAP and in operation.
Sewri and fishermen to be affected by	Compensation Committee has been constituted to
the Project. Any grievances raised by	address the issues of Compensation to Lease
PAPs whose land is acquired by CIDCO	Holders at Sewri.
shall be resolved by CIDCO.	Fishermen: GRC for resolving grievances of the
	fisherfolk was set up as per the compensation
	policy and is in operation.
f. Internal Monitoring	
Internal Monitoring of the Resettlement	Internal Monitoring updates are mentioned in
Action Plan (RAP) implementation will	Attachment 2-8.
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	TRANS HARBO
JICA on a quarterly basis as a part of	
PSR during the RAP implementation.	(*(Gt/!)
	SETTERAL CONCULTATION
	CON.

Incura(a)	Action or countermore work to be
Issue(s)	Action or countermeasure(s) taken and
g. Qualitative Independent Evaluation	remaining problem(s)
An Independent Evaluation Agency will be hired by MMRDA for evaluation of RAP implementation. An external 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.	
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	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)
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-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.	 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

tons) is used for estimation.

^{*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

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

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. 21 is submitted for the period of 1st April to 30th June 2022.

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 NHAl'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.



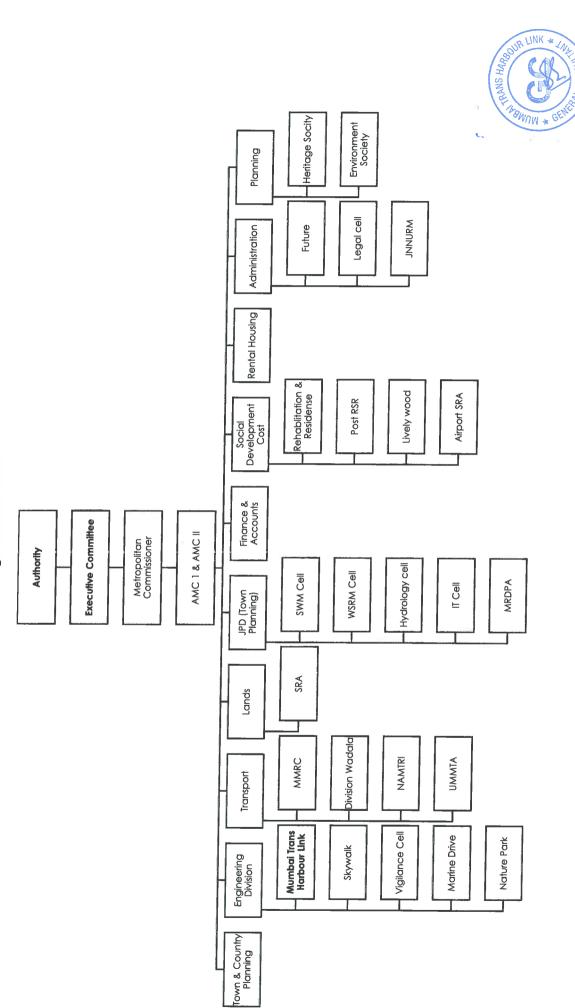
Please describe your evaluation on the overall outcome of the project. (PCR) 5.3 Lessons Learnt and Recommendations Please raise any lessons learned from the project experience, which might be valuable future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurance sustainability.	5.0	5.0 EVALUATION	
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 future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurant sustainability.	5.1	JICA and Borrower / Executing Agency performance	
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 future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurant sustainability.	JICA	\:	
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 future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurable sustainability.	(PCF	₹)	
Please describe your evaluation on the overall outcome of the project. (PCR) Lessons Learnt and Recommendations Please raise any lessons learned from the project experience, which might be valuable future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurable sustainability.	Borr	ower/ Executing Agency:	
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, might be beneficial for better realization of the project effect, impact and assurance sustainability.	(PCF	₹)	
5.3 Lessons Learnt and Recommendations Please raise any lessons learned from the project experience, which might be valuable the future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurable sustainability.	5.2	Overall Evaluation	
Lessons Learnt and Recommendations Please raise any lessons learned from the project experience, which might be valuable for future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurable sustainability.	Please	e describe your evaluation on the overall outcome of the project.	
Lessons Learnt and Recommendations Please raise any lessons learned from the project experience, which might be valuable for future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurable sustainability.	(PCF	3)	
Please raise any lessons learned from the project experience, which might be valua- the future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurar sustainability.	(
the future JICA assistance or similar type of projects, as well as any recommendations, might be beneficial for better realization of the project effect, impact and assurar sustainability.	5.3	Lessons Learnt and Recommendations	
(PCR)	he fut might	e raise any lessons learned from the project experience, which might be valuable for ure JICA assistance or similar type of projects, as well as any recommendations, which be beneficial for better realization of the project effect, impact and assurance of nability.	
(1 01)	(PCF	3)	



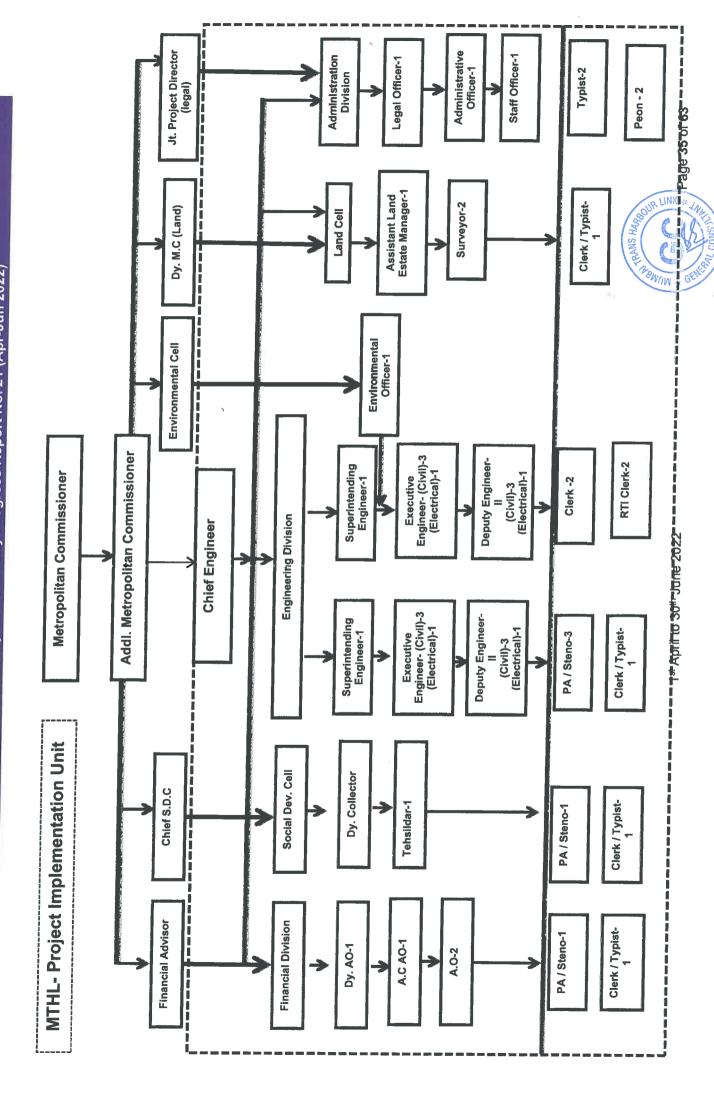
Attachment 1- MMRDA & PIU Organization Chart



MMRDA Organization chart



1st April to 30th June 2022



Attachment 2- Environmental & Social Impacts Attachments

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 Packagewise Estimated Cost

All a change of the party of		on JICA Guidelines		Method	Location .	Frequency a year	Cost (INR)	Cost Pig.1 (INR)	Cost Pkg.2 (INR)	Cost Pig 3 (INR)	Total Cost (INR)	Standard Central Pollution Control Board (CPCB) Ministry of Environment & Forest (MoEF)	Remarks
	1	Air pollution	SO ₂ , NO ₂ , PM ₁₀ , PM ₂₅ , O ₃ , CO, (6 Items)	National Ambient Air Quality Standards, 2009	1. Sewri & Sewri bay area for package l	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.
					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						· \$0 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 biding. 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 frequecy would change after obtaining CTE.
											<u>.</u>	PM ₁₀ : 100 / 100μg/m ³ PM ₂₅ : 60 / 60μg/m ³ O ₃ : 180 / 180μg/m ³ CO: 0.4 / 0.4mg/m ³	
	2	Water pollution	pH, BOD, DO, Turbidity and O&G		1. Sewri & Sewri bay area for package I	Quarterly	810,000	2,400,000	810,000	0	3,210,000 N	Marine water quality Standards – Class SW-IV Harbour Vaters (MPCB)	Water Pollution not applicable for Pkg, 3
				Į.	2. Nhava temporary bridge & casting yard in Gavhan for package II	Times / Year					-	pH: 6.5-9	
on				, p	3. Gavhan & Chirle for package III	Not applicable					- - - -	D0: 3 mg/l Turbidity: 30 NTU B0D: 5 mg/l 0 & 6: 10 mg/l	
Pollution	3	Waste	Volume of waste soil, cutting tree and domestic garbage		I. Sewri & Sewri bay area or package I	aily	500,000	299,200,000	500,000	600,000	300,300,000		The cost of waste disposal for P1 includes C&D waste, Ptle muck etc. from all areas like, interchange, intertidal and marine. The disposal location is at MCGM approved location Bhayandarpada, Thane.



									•			
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)	Shihilard Central Pollution Control Board (CPCB) Ministry of Environment & Forest (MoEF)	Remarks
				Nhava temporary bridge & casting yard in Gavhan fo package II Gavhan & Chirle for package III							Municipal Soild 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 nera "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
4 and 8	Soil Contamination, sedimentation		Manual Soil Testin	1. Sewri & Sewri bay area g for package l	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)	
	sedimentation	(5-10 items shall be selected from Soil pollution standards	Agriculture and	2. Nhava temporary bridge & casting yard in Gavhan for package II							- Cd: 0.01mg/l	
				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						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	
5	Noise and	Ambient and road	IS Standard	1. Sewri & Sewri bay area	at Storage area only Fortnightly	150,000	54,000	150,000	369,000	573,000	items) -Construction Noise; 85dB(A)	
11	vibration	side noise (dB(A)L _{Aeq}		for package I 2. Nhava temporary bridge & casting yard in Gavhan for package II					4.		-Ambient Noise Standards in India (dB (A) _{Leq})	
				3. Gavhan & Chirle for package III	Fortnightly					47.000	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)	Not applicable for Pkg, 1
		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)	
9 and 10	Protected Area /Ecosystem	1.Monitoring of mudflat conditions including fauna-flora	and quantitative	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/		area for package II	4 Times / Year						Significant impacts are not caused by the project	
		3.Monitoring of Mangrove Plantation area appointed by MoEF	1-1. Fauna-Flora Line-Point census and record number and appeared species	Not applicable for Package III							Note)	

Category	No.	Impacted Ite on JICA Guidelines		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
			4. Monitoring of sedimentation so and ecological parameter (18iten on Supplemental E Table 6.1.15 for so and 7 items such a 1)Netprimary productivitye, 2)Chlorophyll-a, 3)Phosphate, 4)Nitrate, 5)Nitrite 6)Particulate Organ Carbon, 7) SiO ₂)	il density and community surv								Detailed monitoring plan will be setup during basic design stage	
Natural environment				1-3: Benthos Surve 2-1: Cutting trees confirmation 3-1: Mangrove survey in the		9.						Standard for Soil; Supplemental EIA Table 6.1.15 Standard for Ecological Parameter:	
	11	Hydrology	Flooding situation	replanted area	Not applicable for Package I		350,000	0	350,000	0	350,000	Netprimary Productivity <1,500 mgC/m3/day at surface Chlorophyll-a <4mg/m3 Phosphate: 0.1-90μg/l Nitrate: 1.0-500μg/l Nitrite: <125μg/l Particulate Organic Carbon: 10-100mg/m³ SiO2: 10-5,000μg/l Project activities and structures does not cause flooding	Not applicable for Pkg. 1 & 3
				measurement during high precipitation periods								and impacts on tidal conditions	
					2 Locations (CRZ at Sewri and Shivaji Nagar) for Package II	4 Times / Year							
1 1					Not applicable for Package							.8	
	12	Topography and Geology	Conditions in embankment area	Visual survey about Stability of embankment	Not applicable for Package I Interchange in Shivaji Nagar for Package II Not applicable for Package		115,000	0	115,000	0	115,000	Embankment shall be stabilized without any landslide and cracks	Not applicable for Pkg. 1 & 3
	13	Local economy such as employment and livelihood			Affected area		As per Actuals						
nment	14	Local conflict of interests	Construction worker's township	workers list from	Sewri and Shivaji Nagar) for	2 Times / Year	125,000	0	125,000	0	125,000	Employment opportunity shall be provided fairly	
lenviron	15	Infectious diseases such as	Number of infected patient	Confirmation of health check list	Package II 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	
Social	16	HIV/AIDS Labour Environment	Construction worker's condition	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 Emloyment 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	accidents list from	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	,
L				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

Monitoring Period - April 2022 to June 2022

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 perameters in EMOP are covered.

1. Environmental Mo	nitoring during	Construction	for 4.5 years
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No.	. Item	Parameter	Location	Frequency a year	Item and Stanadard		Monitoring	g Result		Remark - reasons why the data is exceeding standard
		1 41 4110102	Documents of the second of the	Trequency a year	item and Stanadard	Location 1- Pkg 1	Location 2- Pkg 2	Location 3- Pkg 3	Location 4	- counter measures when the data is exceeding
			Sewri & Sewri bay area for package I	Quarterly monitoring ia conducted at all locations.	National Ambient Air Quality Standards (NAAQS)					
		SO ₂ , NO ₂ , PM ₁₀ ,	Nhava temporary bridge & casting yard in Gavhan for package	4 Times / Year	(Standard for 24hrs: Industrial and Residential)	Sewri	Shivaji Nagar	Chirle		
1	Air pollution	PM _{2.5}		From march -2019	1. SO ₂ : 80μg/m ³	10.94	BDL	9		
				onwards monitoring is	2. NO ₂ : 80μg/m ³	30.42	21	24		
			3. Gavhan & Chirle for package III	conducted quarterly as	3. PM ₁₀ : 100μg/m ³	246.33	76	58		Average is above permissble limit with OCP / Wat sprinkling 3 times a day.
					4. PM _{2.5} .: 60μg/m ³	51.50	27	26		Average is above permissble limit with OCP / Wat sprinkling 3 times a day.
					5.CO:02mg/m3	1.42	1.3	0.55		
					6.VOCs	1.73	4.2	0.3		Benzene is analysed in ambient air
			1. Sewri & Sewri bay area for package I		Marine water quality Standards – Class SW-IV Harbour Waters (MPCB)	Zone I	Zone II	Zone III		
2	Water	pH, BOD, DO,	2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	1. pH: 6.5-9	7.7	8.3	Not applicable		
2	Water pollution	Turbidity and O&G	3. Gavhan & Chirle for package III	Not applicable	2. DO: 3 mg/l	5.2	6	Not applicable		
		1			3. Turbidity: 30 NTU	5.6	7.6	Not applicable		
		1			4. BOD: 5 mg/l	BDL[DL=2]	BDL	Not applicable		
					5. 0 & G: 10 mg/l	BDL[DL=2]	ļ	Not applicable		
					6.COD Municipal Soild Waste Management Rules, 2016	16 Sewri Camp Site	16 Shivaji Nagar Camp Site	Not applicable Chirle Camp Site		Comprehensive waste management plan is implemented with prior approvals of MCGM, Pand Debris Disposed as autorized for MTHL-1
			Sewri & Sewri bay area for package I		Generated Concrete and Debris from Construction		App. 2000 Cum collected in jumbo bags and Disposed off in FEB Location			
		1								
3	Waste	Volume of waste soil, cutting tree and domestic garbage	2. Nhava temporary bridge & casting yard in Gavhan for package II	4 Times / Year	Generated waste soil (t) total	Tree cutting proposal has been submitted and approval from MCGM is awaited. Tree cutting far NIL		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)		
					Generated domestic waste (t/month) total	10.5 Tonnes for 3 months.	3.5/quarter. It is disposed through CIDCO daily.	2.5 T for the quarter		TRANS HARBOL
					Confirmation of adequate disposal (visualt survey)	Schedule Audited by EMS				THE STATE OF THE S
			1. Sewri & Sewri bay area for package I		Soil Pollution Standard in India (MOEF)	Sediment sample at Sewri	Muck Testing Done on September 2021 and Reports submitted to GC	NA		State and Consultation

The Project for Construction of Mumbai Trans Harbour Link

Reporting Form of Environmental Monitoring during Construction

Attachment 2-4

Monitoring Period - April 2022 to June 2022

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 perameters in EMoP are covered.

1. Environmental M	lonitoring during	Construction	for 4.5	vears

No.	Item	Parameter	Location	Frequency a year	Item and Stanadard		Monitoring	Result		Remark - reasons why the data is exceeding stand:
		T di diffecci	Location	rrequency a year	item and Stanadard	Location 1- Pkg 1	Location 2- Pkg 2	Location 3- Pkg 3	Location 4	- counter measures when the data is excee
			2. Nhava temporary bridge & casting yard in Gavhan for package II	2. Sediments: 4 Times / Year	1. Cadmium: 0.01mg/l	BDL[DL=2]	BDL			
1					2. total cyanide : not detected		<0.005	-		
			1		3. Organic Carbon	0.9	8.5			
					4. lead: 0.01mg/l	15	0.17	Not applicable for Pkg 3		Hazardous Storeage is situated in low laying Gavan area. Due to this reason complete gro area is covered by boulders to avoid further logging in rainy season. Therefore soil sampl impossible to taken out from in and around to chemical storage area. Same has witnessed buring Febrary-2020 monitoring.
	1				5. chromium (VI): 0.05mg/l		BDL			
	Soil	on Heavy Metals &		*If any spillage/ leakage	6. arsenic: 0.01mg/l or 15mg/kg (agri-land soil)	BDL[DL=1]	BDL			
4		io Oil & Grease		take place from chemical,	7. total mercury: 0.005mg/l	BDL[DL=2]	BDL			
	n			fuel storage area.	8. alkyl mercury: not detected	Not detected		Regarding soil contamination/sedimentation, some		items shall be selected from the total
			*One time grab sample to	9. PCBs: not detected	Not detected	BDL			y the selected items shall be reported to	
			3. Gavhan & Chirle for package III		10. copper: 125mg/kg (only paddy field soil)	147			ms shall be deleted from the	
]			Construction	11. dichloromethane: 0.02mg/l	Not detected	BDL			2 3703
	1			*Pre & Post Monsoon at	12. carbon tetrachloride: 0.002mg/l	Not detected	BDL			
	ĺ		1	Storage area only	13. 1,2-dichloroethane: 0.004mg/l	Not detected	BDL			
			1		14. 1,1-dichloroethylene: 0.02mg/l	Not detected	BDL			
					15. cis-1,2-dichloroethylene: 0.04mg/l	Not detected	BDL			
	1				16. 1,1,1-trichloroethane: 1mg/l	Not detected	BDL			
				17. 1,1,2-trichloroethane: 0.006 mg/l	Not detected	BDL				
			i		18. trichloroethylene: 0.03mg/l	Not detected	BDL			
		1	1		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			
			Sewri & Sewri bay area for package I		Construction area Standard 85 dB(A) daytime (Japan standard) Not constuction area : Ambient Noise Standard in India (dB(A) Laeq) 75 Max.	Sewri (ST 200-500) (Industrial area)	Sea Section (ST5000-5500) Migratory Bird Area (no standard on sea section)	Shivaji Nagar (Commercial area)		
			package 1		Day time : 6-22 hr (continious) dB(A) - 75 DB	73.3		63.35		
			1	Noise levels - Night time	Night time: 22-6 hr (continious) dB(A) - 55 DB	67.46		52.69		
		Ambient and road side noise (dB(A)LAeq)	2. Nhava temporary bridge & casting yard in Gavhan for package II	2 Times / Year						
					(only sea section)					
				Ī	Day time : 6-22 hr (10 min during 9-17 hrs)		68.2			
					Night time: 22-6 hr (10 min 22-24 hr)		<u>65.6</u>			
	Joigo and									2518 116
5 r	Noise and ribration		3. Gavhan & Chirle for package III	Fortnightly	Note (standard values in Not construction area)					(81) 4 70 XE
					I.Industrial Area					I S C Y D S
					Day Time: 75 (6-22hr)					*
					Night Time: 70 (22-6hr)					194 / 18
					2.Commercial Area:					TAL CONSUL
1		1 1	i .	T-	Day Time: 65 (6-22hr)					

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

Attachment 2-4

Monitoring Period - April 2022 to June 2022

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 perameters in EMoP are covered.

1. Environmental Monitoring during Construction for 4.5 years

ea a	No.	Item	Parameter	Location	Frequency a year	Item and Stanadard		Monitoring	Result		Remark - reasons why the data is exceeding standard
<u>₹</u>					requency a year	Actin and Standard	Location 1- Pkg 1	Location 2- Pkg 2	Location 3- Pkg 3	Location 4	- counter measures when the data is exceeding
						Night Time: 55 (22-6hr) Construction area Standard 75 dB daytime (Japan standard) Not constuction area: Vibration Standard	Sewri (ST 200-500) (Industrial area)	Shivaji Nagar (Commercial area)	Chirle		
			Vibration (dB)	1 Location Gavan area for package	Welforeste	(Japan Standard along the road) Day time: 6-22 hr (continious)		Not Applicable			There is no reference standard in India for Vibration monitoring in marine area. GC has confirmed that vibration monitoring is not required for the project.
			shall be converted from mm/s to dB	111	Half yearly	Night time: 22-6 hr (continious)					
						Note (standard values in Not construction area)		garding protected area (CRZ and m monitoring plan will be extal			ndly check the letter No.Ref No. Mthl/
						1. Commercial /Industrial Area Day Time: 70 (7-20hr)		onitoring form shall be updated			3/L&T/GC/LT/HSE-2226/2020 dated on 2.12.2020
						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)	Mangorove Replantation area appointed by State Government	
				Along MTHL alignment and mangrove replant area for package	4 Times / Year	1-1. Fauna-Flora (number of species and quantity	Flora/Fauna list maintained for Referal		N/A	N/A	Biodiversity list in CEMp/EMP 2022 updates
			1.Monitoring of mudflat conditions including faunaflora 2. Monitoring of	П		(1) Number of species of bird	52-28		Х		The bird species vary from 52 to 30 at SEWRI Mudglats. Dominant species is the lesser flamingo and greater flamingo. Cout of LF was aprpoximately 10000 to 20000 at peak. Towards June the numbers start to decrease as they migrate. Egrets increase,
	- 1		Cutting Tree and			(2) Number of species of fish	30				painted stork, black headed ibis and pacific reef
1			replantation/tran splation area			(3) Estimated number of Flamingo	April -20000 +				egrets are observed too.
			3.Monitoring of Mangrove Plantation area appointed by			1-2: Mangrove density and community survey	Avicennia marina	not required			
		Protected	MoEF 4. Monitoring of			(1) Number of species of mangorve	Dominant - Avicennia sp.	not required			
			sedimentation soil			(2) Density of mangrove (xx trees/10m x 10m)	EIA - Not distrubed.	not required		· · · · · · · · · · · · · · · · · · ·	
			and ecological parameter (25			1.2. Banthag Surgery	MEIO, Flora, fauna, phytoplankton,zooplankton	not required			
ment	ĺ		items on EIA main text Table 6.1.15 for soil and 7				130 Species and 145 No/m2 1. Tree Cutting: 413 trees (Till	not required			
Natural Environ			items such as 1)Net primary productivity,			2-1: Cutting tree confirmation	June 2022) 2. Transplanting : 483 Trees (Till June 2022)	not required			
nra			2)Chlorophyll-a,			(1) Number of cutting tree and species	CRZ- Cost assigned to FD	not required			
Nat	1		3)Phosphate,		L		GC to integrate FD and environmentalist	not required			
	ı		4)Nitrate, 5)Nitrite,	ľ		(1) Number of species of mangorve	3	not required			
			6)Particulate			(2) Density of mangrove (xx trees/10m x 10m)		not required			
			Organic Carbon,			4. Ecologial Parameter (1) Net primary Productivity: <1,500					
			7) SiO2)		į	mgC/m3/day at surface	500				
		45				(2) Chlorophyll-a: <4mg/m3	4				
		***				(3) Phosphate: 0.1-90μg/l	3				
			1			(4) Nitrate: 1.0-500µg/l (5) Nitrite: <125µg/l	6 BDL[DL=2]				
						(5) Nitrite: <125µg/l (6) Particulate Organic Carbon: 10-100mg/m³	BDL[DL=2] 0.9				TRANS HARB
	E	cosystem				(7) SiO2: 10-5,000µg/l	34.6	·			(\$)
		*	Flooding situation	ot applicable for Package I	[Criteria for evaluation Project activities and structures does not cause looding and impacts on tidal conditions	Sewri	Shivaji Nagar			* GE
				Locations (CRZ at Sewri and hivaji Nagar) for Package II	Times / Year	Monitoring of flooding situation	No Flooding	No Flooding			

The Project for Construction of Mumbai Trans Harbour Link

Reporting Form of Environmental Monitoring during Construction

Attachment 2-4

Monitoring Period - April 2022 to June 2022

Attachment 2-4

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 perameters in EMOP are covered.

1. Environmental Monitoring during Construction for 4.5 years

ea	No.	Item	Parameter	Location	Frequency a year	Item and Stanadard	Monitoring Result				Remark - reasons why the data is exceeding standard
₹ A			1 41 4110001	Double 1	requercy a year	Acin and Standard	Location 1- Pkg 1	Location 2- Pkg 2	Location 3- Pkg 3	Location 4	- counter measures when the data is exceeding
				Not applicable for Package III	<u> </u>						
		Topography	Conditions in	2 Locations (1. Embankment of Inter Change in		Criteria for evaluation Embankment shall be stabilized without any landslide and cracks	Shivaji Nagar	Shivaji Nagar Camp Site	Chirle		
	8	and Geology	embankment area	Shivaji Nagar and 2 Cutting area at toll gate in Chirle)	4 times / year x 4.5 years	Monitoring of embankment	In progress				
	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		
	-	 	<u> </u>			Number of hired workers by community	628 workmen	125-150			
						Criteria for evaluation Infection disease rate shall not be caused by the project	Sewri Camp Site	Shivaji Nagar Camp Site		-	
	10	Infectious diseases such as HIV/AIDS		2 Locations (major camp site in Sewri and Shivaji Nagar)		Confirmation of health check record and inspect project site . PPE provisions for work, social distancing for covid protocol at work in TBT training. Posters for awarenss at Kitchen and Labor camp. Medical camp : 220 Labor Covid Precautions : 1. L&T office and camps : Thermal screening / Sanitation. 2. Fogging : 2 times in a week 3. Pest control : 2 times in a week	Doctor on call checks site specific infections., minor and major incidents . 24x7 ambulance service , ERT team with trained first aiders available	Health Checks carried out but HIV/AIDS parameter is not there.			Functional first aid center within MTHL -1 campus. Induction, medical check up and authroization required to begin work for Labor.
	11	Jahour		2 Locations (major camp site in Sewri and Shivaji Nagar)	2 times / year x 4.5 years	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"	* 4014 labor for 3 months at 11 functional camps. *Entertainment (Movie) arranged for 1600 labour on Sundays * Cricket match conducted for workmen & staff: - Staff participation: 350 - Workmen participation: 800 * Covid booster dose:75 staff	Shivaji Nagar Camp Site			Biotoilets used for labor camps with biodigestors. A DRDO patented technology used for Solid waste. The bathing and kitchen water was directed to a reed bed for treatment.
	75					Site Visual Inspection	Weekly site inspection	Conforming with BOCW Act 1996			
0ther	12			2 Locations (major camp site in Sewri and Shivaji Nagar)		Criteria for evaluation Any accidents are not caused by construction	1 RLTI reported	Shivaji Nagar Camp Site	Other area		While cutting the bracing secondary beam tilted towards IP and resulted cut injury of little, ring and middle finger
						Number of recorded accident	2	NIL			and middle finger



MTHL Land Acquisition Status (Attachment 2-6):

The total land required on Navi Mumbai side- 108.09 ha Land in possession in MMRDA – 106.345 ha Balance land acquisition- 1.745 ha

Note: The acquisition of 1.745 ha is in progress by CIDCO. The balance acquisition would be likely completed by the end of September 2022.

Land Required in ha Govt. Private		Land Acquired in ha		Balance Land to be acquired in ha	Anticipated date for Land Acquisition	Payment status (Payment made to Land Owners by CIDCO)	Remarks
98.75	9.34	98.75	7.595		20.00.2022		The payment status to the land owners is awaited from CIDCO. The
90.73	9.34	90.75	7.095	1.745	30-09-2022		same would be communicated to JICA on receipt of the same.
	otal 3.09	98.75	7.595	1.745			

*Portions of Private Land

Sr. No.	Name of Village	Area (Hectare)	Acquired	Non-acquired
1	Gavhan	0.15	0.15	0.00
2	Jasai	8.72	7.306	1.414
3	Chirle	0.47	0.139	0.331
	Total Area	9.34	7.595	1.745



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 2st quarter of 2022

30-06-2022

b. Date of Preparing This form

Name: Robin Sham

c. Person Preparing This form

Position: Engineer and Team Leader

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)	231 Hhs	Titleholders: 0 Hhs
		Non-titleholders: 231 Hhs
Total PAPs	1,282 persons*	Titleholders: 0 persons
The second of th		Non-titleholders: 1,282 persons*
PAHs who need relocation (as residents)	231 Hhs	Titleholders: 0 persons
Secretary of the second se		Non-titleholders: 231 (1,088 persons) *
PAPs who do not need relocation (as residents)	0 persons	Titleholders: 0 persons
The state of the s		Non-titleholders: 0 persons
Commercial PAPs who need relocation	66	Titleholders: 0 persons
Commence of the Commence of th	(194 persons) *	Non-titleholders: 66 (194 persons) *
Commercial PAPs who do not need relocation	0 persons	Titleholders: 0 persons
and the state of t		Non-titleholders: 0 persons

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

2.2 Structures

Structures	Residential: 231
	Commercial: 65
Sa Sa	Residential + Commercial: 1 (counted in Commercial)
	Community: 9 (Religious Properties 6, Public Toilets 3)
100	Government: 16 (MbPT Structures 9, Occupants of Leased Plots 6 & Police Chowki 1)
17	Total: 322

2.3 Fishery

Categories of Fisher-folks	Identified Number		Total	Remarks	
	Mumbai side	Navi Mumbai side			
C1: Fishing stakes and nets in	178	54	232	Funds for 230 nos C1	
RoW (250 m.)				category fishermen are	
				transferred to the	
				Commissioner of	
				Fisheries on 17.03.2020	
				for payment to the	
				beneficiaries.	
				2. The list of balance 2	
1				Nos. of C1 category	
]				fishermen are in process	
				of fund transfer to the	

QPR No. 21 (April to June 2022) Attachment 2-8

			T	Commissioner of
				Fisheries.
C2: Fishing Stakes and Nets within 500 m. of RoW (Southern side)	296	567	863	1. Funds for 496 nos C2 category fishermen are transferred to the Commissioner of Fisheries in 2017-18. 2. The list of balance 367 Nos. of C2 category fishermen are under verification of validity.
C3: Hand Pickers	1498	4051	5549	Funds for 4141 nos of C3 category fishermen are already transferred to the Commissioner of Fisheries and the balance of 1408 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 Operating Costs)	Will be observed during the construction period	Will be observed during the construction period		Nil
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

2.4 Land Acquisition / Transfer

Location	Land Required in Ha.		Land Acquired in Ha.		Balance Land to be acquired in Ha	Remarks	
	Govt.	Private	Govt.	Private			
Sewri	10.089	0	10.089	0	0		
Navi Mumbai	98.75	9.34	98.75	7.595	1.745		
Total	118.	179	108.839	7.595	1.745		



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	226	0	226	97%	
	No. of Residential PAHs given possession of Alternate Tenements	231	226	0	226	97%	
	No. of Commercial/R+C PAPs provided with Allotment Letters of Alternate Shops/Tenements	66	62	0	62	92%	
	No. of Commercial R+C PAPs given possession of Alternate Shops/Tenements	66	62	0	62	92%	
	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	0	0	0	0%	
Rehabilitation	No. of PAHs / PAPs identified for Livelihood Support in Post Resettlement Assessment						
	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					5	QANS MAS

QPR No. 21 (April to June 2022) 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
Grievance Redress	No. of Grievances Received by FLGRC	4					
Redicss	No. of Grievances Disposed by FLGRC	3	1	0	1	100%	
	No. of Grievances Received by SLGRC	1	0	0	0		
	No. of Grievances Disposed by SLGRC	0					
Post Resettlement	No. of CHSs Registration helped						
Assistance	No. of CHSs provided Tenements for Social Amenities						
	No. of CHSs' Maintenance Fund Invested						
	No. of CHSs' Office Bearers provided training			,			



SU	SUMMARY OF FISHER FOLKS OF MTHL PROJECT (Influence Zone of 24 villages) Up to 30-06-2022								
Sr. No.	Village Name	Total number of forms	Total approved eligible famil units						
		Received		GZ	CS	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	865	5548	6645					
	10								
-	Total applications	4.00				15097			
	Duplicate/Repeated Application	on				2428			
	Net Applications					12669			
	Approved applications					6645			

Grievance	Redressal Co	her-folk Compensation			
No. of Cases referred to GRC	N	No. of Cases		No. of Cases under Consideration	
	Allowed	Compensation Paid			
Nil	Nil	Nil	Nil	Nii	



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

A. Implementation Schedule for Fisher-folks Compensation: -

Sr. No.	Approval of fisherfolk's compensation Policy Fisher Command Approval by MMRDA MMRI Submission to JICA MMRI A detailed list of PAP and compensation plan 1. Detai	Fisher-folks Compensation Committee (FCC) MMRDA 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 - 368 Nos and C3- 3481 Nos are approved.	Start Date 08-10-2015 10-12-2015 23-12-2015	Completion Date 23-12-2015 23-12-2016 Up to 30-06-2022 1. Total up to date applications scrutinized = 12669 Nos. 2. Eligible = 6645 Nos. 3. Rejected = 6024 Nos.
_	Validation of compensation plan	Fisher-folks Compensation	23-12-2015	Approval to the Fisher-folk PAP list obtained from Fisheries
		Committee (FCC)		
				(Mumbai side) – 12th September 2017 and 20th November
\dashv				2018 for C-2 & C3 Category only.



	1	6		Sr. No.
Approval by MMRDA		Approval of compensation plan		Task Designation
MMRDA		FCC		Approving authority
23-11-2015		23-11-2015	23-12-2015	Start Date
09-03-2021		28-12-2017	 Approval to the Fisher-folk PAP list obtained from Fisheries Department for Fisherfolk of Navi Mumbai of C2 & C3 on 25th April 2018. Validation of compensation is in progress and would be completed in phases. 	Completion Date

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

Total	98.75	Govt.	Land R
108.09	9.34	Private	Land Required in Ha.
100	98.75	Govt.	Land Acq
106.345	7.595	Private	Land Acquired in Ha.
1.745	1.745	Private	Balance Land to be acquired in Ha
	30-09-2022		The anticipated date for Land Acquisition
	I		Payment status (Payment made to Landowners by CIDCO)
	1. CIDCO is the land acquisition authority for land acquisition for Navi Mumbai 2. MMRDA has paid an amount of INR 59.16 Cr to CIDCO as per their demand. 3. The payment status to the landowners is awaited from CIDCO. The same would be communicated to JICA on receipt of the same.		Remarks



QPR No. 21 (April to June 2022) 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	September 2022
2.6	Notice of PAPs for shifting (Sewri Section)	December 2018	Nov. 2021
2.7	Allotment of dwelling units to PAPs	September 2016	September 2022
2.8	Shifting of PAPs to resettlement Colony	December 2018	Nov. 2021
2.9	Transfer of compensation/allowance/ assistance to PAPs	December 2018	September 2022
2.10	Creation of Community Revolving fund (within 3 months post handing over)	April 2019	September 2022
2.11	Assessment of economic rehabilitation needs by individual household (within 6 months after handing over	September 2019	September 2022
2.12	Registration of Co-operative housing societies transfer of maintenance funds. (6 months period)	December 2019	September 2022
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	May 2019	June 2020
	End Term	November 2019	November
			2022



Attachment 3- JICA's Concurrence Status



Mumbai Trans Harbour Link Project - Quarterly Progress Report No. 21 (Apr-Jun 2022)

Status of JICA'S Concurrence

Backage-1 CH 0+000 km CE with PQ Concurrence - Con											
Package-4 Procurement Local CarRes Documents PQ Evaluation Documents Evaluation	ā			Bid	ost			JICA's Con	currence on		
Package-1	N O		Procurement	Local Currency (Cr Rs.)	Total (Cr Rs)		PQ Evaluation	۵	Technical Evaluation	Financial Evaluation	Contract
Package-2 (CH 10+380 LGB with PQ (2P) 5612.61 5612.61 Concurrence - 9th May 2016 JICA's JICA's Lam to (2P) JICA's JICA's Lam to (2P) JICA's Lam to (2P) <td><.</td> <td>Package-1 (CH 0+000 km to CH10+380 km)</td> <td></td> <td>7637.30</td> <td>7637.30</td> <td>JICA's Concurrence - 9th May 2016</td> <td>JICA's Concurrence - 22nd Dec 2016</td> <td></td> <td>JICA's Concurrence - 12th Sep 2017</td> <td>JICA's Concurrence - 12th Oct 2017</td> <td>JICA's Concurrence - 15th Feb 2018</td>	<.	Package-1 (CH 0+000 km to CH10+380 km)		7637.30	7637.30	JICA's Concurrence - 9th May 2016	JICA's Concurrence - 22 nd Dec 2016		JICA's Concurrence - 12th Sep 2017	JICA's Concurrence - 12th Oct 2017	JICA's Concurrence - 15th Feb 2018
Package-3 (CH18+187 to CH21+800) ICB with PQ (2P) 1013.79 (Concurrence - 9th May 2016) JICA's 4th Jan 2017 JICA's 4th Jan 2017 JICA's 4th Jan 2017 JICA's 15th Sep 2017 JICA's 12th Oct 2017 Package-4 Intelligent Transport System (2P) 427.00 Concurrence - 31cd Aug 2019 NA Concurrence -	6	Package-2 (CH 10+380 km to CH18+187 km)	ICB with PQ (2P)	5612.61	5612.61	JICA's Concurrence - 9 th May 2016		JICA's Concurrence - 4 th Jan 2017	JICA's Concurrence - 12th Sep 2017	JICA's Concurrence - 12 th Oct 2017	JICA's Concurrence – 15 th Feb 2018
Package-4 ICB with PQ 427.00 427.00 Concurrence - NA Concurrence - Concu	က်	Package-3 (CH18+187 to CH21+800)	ICB with PQ (2P)	1013.79	1013.79	JICA's Concurrence - 9 th May 2016	JICA's Concurrence - 4 th Jan 2017	JICA's Concurrence - 4 th 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	Y Y		JICA's Concurrence - 15th Feb 2022	JICA's Concurrence - 21st April 2022	



Attachment 4- Project Procurement and Financial Status till 30th June 2022



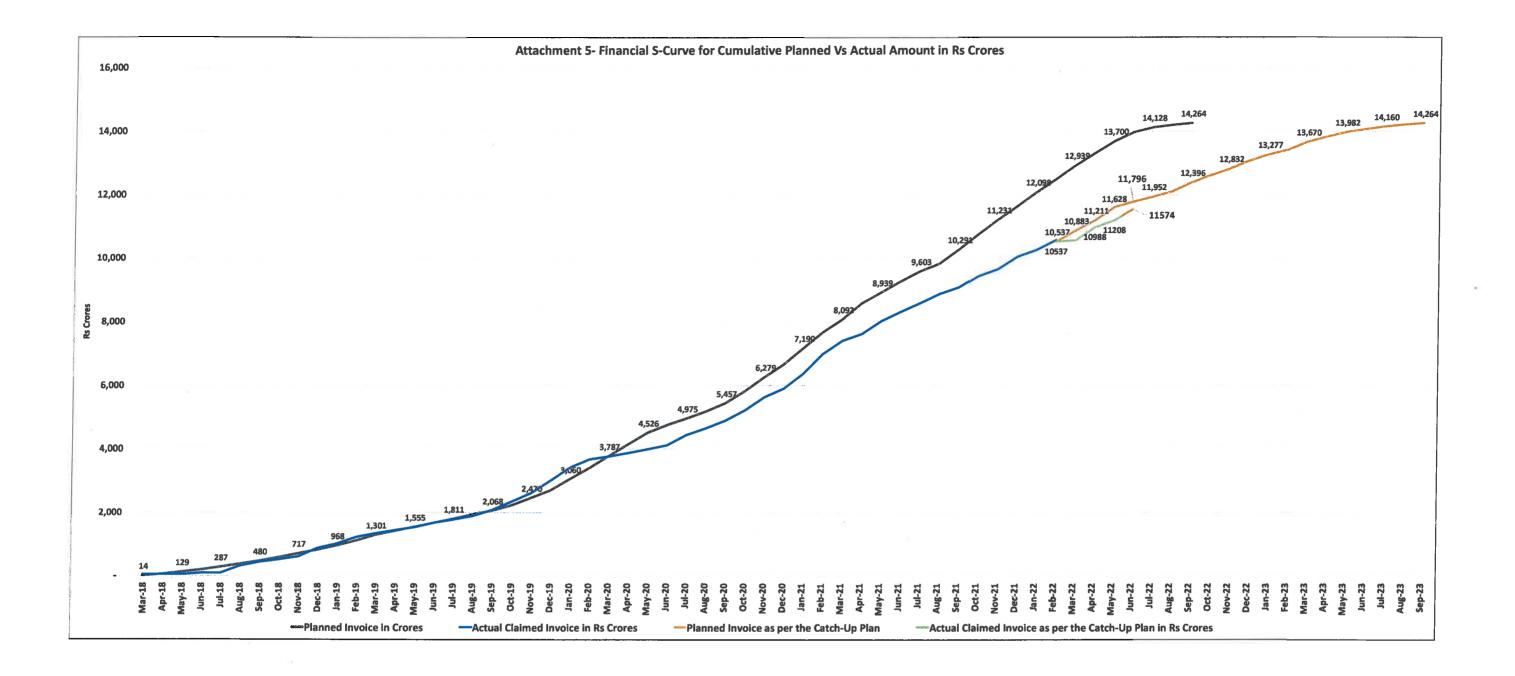
PROJECT PROCUREMENT AND FINANCIAL STATUS TILL 30th JUNE 2022

			- 	
% Of Financial Progress till 30th June 2022 (GC Certified) (Excluding Mobilization Advance, Price Adjustment and	76.49%	77.56%	85.68%	NA NA
% Of Overall Works Progress (Design, Material Procurement and Construction) as per the Primavera Baseline Schedule Updated as of	82.07%	81.86%	90.35%	NA
Revised Project Completion Date After granting the Extension of Time (EOT)	30-Sept- 2023	27-Sept- 2023	03-Mar- 2023	WA
Stipulated Project Completion Date	21-Sep- 2022	21-Sep- 2022	21-Sep- 2021	Aug 2023
Project Commencement Date	March 2018	March 2018	March 2018	June 2022
Contractors	L&T-IHI Consortium	DAEWOO- TPL JV	L&T	Strabag GmbH JV
Current	Awarded	Awarded	Awarded	Awarded
Awarded or Estimated Value (in Rs. Crore)	7637.30	5612.61	1013.79	427.00
Contract	Package-1 (CH 0+000 km to CH 10+380 km)	Package-2 (CH 10+380 km to CH18+187 km)	Package-3 (CH18+187 to CH21+800)	Package-4 Intelligent Transport System (ITS)
Туре		CIVIL		SE



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







Attachment 6- Package-1's Construction Programme Updated as of 25th June 2022





Critical Remaining Work

MUMBAI TRANS HARBOUR LINK PACKAGE 1, UPDATED REVISED WORK PROGRAMME FOR JUNE 2022





AECOM PADECO CZZ dar d-handasah MERMATOMA

General Consultant for Mumbai Trans Harbour Link Project

			1			
Activity Name	BL1 BL1 Start BL1 Fin	sh Original Start Finis	sh Schedule 9 Complet		Variance - BL1 Variance - BL1 Start Date Finish Date	Total 2018 2019 2020 2021 2022
PR51_MTHL P1 -Jun-22 Month Progress	CHANGE WATER TO SERVE THE					PMILDNDSPICMVWILDNDSPICMVWWITCDNDSPICMVWWITCDNDSPICMVWILDNDSPICMV
MPR51,1 Mumbal Trans Harbour Link - Package 1	A STATE OF		Nov-23 82:17		0 -50	
	1294 28 Min/18 30-5ep		Nov 28 02 17		0 30	
M10000 Commencement Date MPR51.1.0 Delay Events	0 23-Mar-18 1 305 31-Dec-20 14-Mar	0 23-Mar-18 A 588 31-Dec-20 A 14-N	1009		0 0	
MPR51.1.2 Key Milestones	305 31-Dec-20 14-Mar 1688 15-Feb-19 30-Sep-	A CONTRACTOR OF THE PROPERTY O	Mar-22 A 09 Nov-23 09		0 0	
MPR51.1.3 Access to Site	1439 23-Mar-18 01-Mar	THE RESIDENCE OF THE PARTY AND ADDRESS OF THE PARTY OF TH	lun-22 09	the second second second second second	0 -58 0 -117	
MPR51.1.5 Survey	73 23-Mar-18 03-Jun-	THE R. P. LEWIS CO., LANSING MICHIGAN PROPERTY AND ADDRESS OF THE PARTY	Jun-18 A 09	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	0 0	
MPR51.1.6 Geotechnical Investigation	420 23-Mar-18 23-Jul-1	TO THE REAL PROPERTY OF THE PR	ul-19 A 09	THE RESERVE WHEN THE PROPERTY AND ADDRESS.	0 0	
MPR51.1.7 Infrasturcture Facilties	592 23-Mar-18 26-Oct-	PATRICIA DE LA PRESENTA DE LA COMPANIA DE COMPANIA DE COMPANIA DE LA COMPANIA DE COMPANIA	Oct-20 A 09	and the contract of the second	0 0	
MPR51.1.9 Design & Engineering (Civil)	955 23-Mar-18 12-Mar-	22 927 23-Mar-18 A 01-A	Aug-22 09	6 0%	0 -72	
MPR51.1.9.1 Initial Design (General & Preliminary Design, DBR)	228 23-Mar-18 29-Nov	18 229 23 Mar-18 A 29-N	Nov-18 A 09	6 0%	0 0	
MPR51.1.9.2 Finalization of Alignment	155 23-Mar-18 10-Sep-	18 169 23-Mar-18 A 10-S	iep-18 A 09	6 0%	0 0	
MPR51.1.9.3 Detailed Design and Construction Design	920 01-May-18 12-Mar-		Aug-22 09	6 0%	0 -72	317
MPR51.1.10 Design, Engineering & Material Procurement (OSD)	922 23-Mar-18 22-Jul-2		ul-21 A 09		0 0	
MPR51.1.10.1 Initial Design MPR51.1.10.3 Aerodynamic Analysis	228 23-Mar-18 29-Nov		lov-18 A 0%		0 0	
MPR51.1.10.3 Aerosynamic Aratysis MPR51.1.10.4 Technical Design	422 23-Mar-18 30-Jul-1		ul-19 A 0%		0 0	
MPR51.1.10.5 Construction Design	647 15-May-18 22-Jul-2 635 02-Feb-19 22-Jul-2		ul-20 A 0% ul-21 A 0%		0 0	
MPR51.1.10.6 Material Procurement (1st Lot)	498 15-Mar-19 19-Jan-2		ul-21 A 0% an-21 A 0%	1,000	0 0	
MPR51.1.11 Tree Cutting and Transplantation	1457 23-Mar-18 18-Mar-				0 -114	-54
MPR51.1.12 Utility Diversion	924 01-Oct-18 07-Mar-			- 50	0 -90	12
MPR51.1.13 Construction	1221 11-Jun-18 29-Sep-2	The second secon	lov-23 36.75%	1000	0 -38	13
MPR51.1.13.1 Sewri Interchange Section	1023 29-Mar-19 20-Jul-2				0 -44	32
MPR51.1.13.1.1 Sewri Interchnage - Work Front - 1	919 16-May-19 25-Mar-	The same of the sa	pr-23 41.48%	47.4%	0 -27	109
MPR51.1.13.1.1.1 Sewri interchange - Work Front - 1 - Piling	614 16-May-19 18 Feb-2	2 658 16-May 19 A 18 Fe	eb-22 A 0N	Q94	8 0	
MPR51.1.13.1.1.2 Sown Interchange - Work Front - 1 -Pile Cap	748 21 Jun 19 14 Nov-	22 821 21 Jun 19 A 14 N	68.28% 68.28%	24.6%	0 0	100
MPR51 1.13.1.1.3 Sewri Interchange - Work Front - 1 - Pier	877 30-lul-19 23-Dec-2		in-23 32.68%		0 -14	
MPR51.1.13.1.1.4 Sewri Interchange - Work Front - 1 - Pier Cap	581 12-Oct 20 09-lan 2				0 14	<u>266</u>
MPR51.1.13.1.1.5 Sewri Interchange - Embankment Works - Ramp F	90 06-May 22 20-Oct-2	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	ov 22 0%	796		
MPR51.1.13.1.1.6 Sewri Interchange - Work Front - 1 - Super Structure Ere MPR51.1.13.1.2 Sewri Interchange - Work Front - 2	685 29-mi-20 25-Mar-	Marine Marine Artist Artist Commission Commi	The second secon	46.4%	0 -27	
MPR51.1.13.1.2.1 Sewri Interchange - Work Front - 2 - Piling	992 29-Mar-19 27-Apr-2	A STATE OF THE PARTY OF THE PAR		40.06%	.D) -50	75
My MPR51.1.13.1.2.2 Sewii Interchange - Work Front - 2 - Pilo Cap	715 29 Mar-19 25 Apr-2 775 (5-May-19 06 Nov.)	THE RESERVE THE PERSON NAMED IN COLUMN 2 I	pr 22 A 100% ec-22 54.93%	100% 44:17%	0 18	
MPR51 1.13.1,2.3 Sewn Interchange - Work Front - 2 - Pier	884 04 Sep-19 10-Jan 2	THE RESERVE THE PERSON NAMED IN COLUMN 1	60-24 54-93% fen-23 44-28%	39 19%	0 10	
MPR51.1.13.1.2.4 Sewn Interchange - Work Front - 2 - Pier Cap	885 02-Dec-19 04-Apr-2			31.77%	7 61	38 43
MPRS1.1.13.1.2.5 Sewri Interchange - Embankment Works - Ramp C2	60 28 Feb-22 06-Msy-7		9F-2Z A 102%		79. 47	
MPR51.1.13 1.2.6 Sewri Interchange - Work Front - 2 - Super Structure eres	628 US Dec-20 27 Apr-2		7200=7	3.77%	0 57	<u>y</u>
MPR51.1.13.1.3 Sewri Interchange - Work Front - 3 (Cast in situ Spans)	705 16 May-20 26 Apr-2	739 16-May-20 A 02-Se	p-23 34.81%	23.74%	-33	<u> </u>
MPRS1.1.13.1.3.1 Sewri Interchange - Work Front - 3 - Pilling	396 16-May-20 18-Mat-2	2 427 16 May 20 A 20 Ap	x 22 A 100%	100%	D 50	<u>, </u>
MPR51.1.13.1.3.2 Sawri Interchange - Work Front - 3 - Pile Cap	468 21 Sep-20 13 Oct-22	531 21-Sep-20 A 05-No	n-22 46.15%	31.67%	0 31	
MPR51.1.13.1.3.3 Sewri Interchange - Work Front - 3 - Pier	534 10-0ct 20 16-Nev-2		n 23 46 15%	18.46%	0 57	
MPR51 113.1.3.4 Sown Interchange - Work Front - 3 - Pier Cap	401_17-Mar-21			26.67%	0 57	
MPR51.1.13.1.3.5 Sewri Interchange - Work Front - 3 - Super Structure	317 28-Feb-22 26-Apr-2	AND DESCRIPTION OF THE PERSON	The second secon	16,43%	- 4	
MPR51.1.13.1.4 Sewii Interchange - Merging with Eastern freeway after Sup MPR51.1.13.2 Intertidal Section	226 05 Oct-22 20-Jul-23			0%	-9 -57	
MPR51.1.13.2.1 Intertidal - Temporary Access Bridge Work	1221 11-Jun-18 29-Sep-2:	The state of the s		40.33%	0 -18	
MPR51.1.13.2.1.1 Access Bridge	1221 11-Jun-18 29-Sep-23 471 11-ten-18 27-May 2	The SA Million House to be a second		C%	0 -18	
MPR51.1.13.2.1.11 Temporary Access Bridge Work -2 (MP70 to MP51-21 S)	926 14-Nov-19 29-Sep-25			0%	0 0	
MPR51.1.13.2.2 Intertidal - Main Bridge Work	1047 14-Nov-18 14-Feb-23	A STATE OF THE PARTY OF THE PAR	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	45:25%	ο 12	150
MPR51.1.13.2.2.1 Intertidal - Main Bridge Work - Piling	749 14-Nov-18 65-Oct-21	THE RESERVE THE PROPERTY OF THE PARTY OF THE	CONTROL STREET, STREET	95,25(8)	8 8	
MPR51 1.13.2.2.2 Intertidal - Mam Bridge Werk - Pile Cap	741 17-Jan 19 01-Dec 21			0%	0 0	
MPRS1,1.13.2.2.3 Intertidal - Main Bridge Work - Pier	805 29-Atar-19 24-Apr-22		Control of the Contro	100%	0 27	
MPR\$1.1.13.2.2.4 Intertidal - Main Bridge Work - Pier Cap	727 10-Aug-19 05-Mey-2	The second secon		100%	D 23	
MPR51.1.13.2.2.5 Intertidal - Main Bridge Work - Super Structure Erection	792 29-Nov-19 14-Feb: 23	805 29 New 19 A 27 Feb	5-13 43.88%	36.7%	0 -12	88 Tabularia and a same and a sam
MPR51.1.13.3 Marine Section	1096 14 Dec-18 10-May-2			27.23%	0 -18	7/
MPR51.1.13.3.2 Marine - Main Bridge	1096 14-Dec-18 10-May-2			27.23%	0 18	
MPRS1.1.13.3.2.1 Marine - Piling	578 14-Dec-18 10-Apr-21	The second secon	CONTRACTOR OF THE PARTY OF THE	Øk.	6 0	
MPR51.113.3.2.3 Marine - Pile Cap	795 14 tan-19 10-May-12			100%	-17	
MPR51.1.13.3.2.4 Marine - Pier MPR51.1.13.3.2.2 Marine - Pier Cap	745 12-5ep-19 17-Nov-22			44.06%	0 46	<u> </u>
MPR61.1.13.3.2.5 Marine - Super Structure Erection	737 J6-Dec-19 10-Jan-23 691 23-Jun-20 10-May-23		Contract to the second	38,37%	0 46	
MPR51.1.13.4 Precast Segments	866 07-Aug-19 23-Feb-23			36.35%		The second secon
MPR51.1.13.4.1 Precast Segement - Sewn Interchange	809 20-Feb-20 18-Dec-22			47.8%	8 2	187
MPR51.1.13.4.2 Precast Segement - Intertidal	931 18-Oct 19 30-Dec-22			59.98%	, i	187
MPR51.1.13.4.3 Precast Segement - Marine	866 07-Aug-19 23-Feb-23			25.12%	0 13	162
MPR51.1.13.5 Orthotropic Steel Deck (OSD) - Fabrication, Shipping, Assembly	939 23-Sep-19 23-May-23	TANKS AND SECTION OF THE PARTY		49.27%	0 -27	69
MPR51.1.13.5.1 OSD - Fabrication	746 23-Sep-19 17-Oct-22	838 23-Sep-19 A 17-Oct-		100%	0 0	276
MPR51.1.13.5.1.1 Fabrication - Factory A	746 23-Sep-19 17-Oct-22			100%	0 0	286 V
MPR51.1.13.5.1.2 Fabrication - Factory B	709 23-Sep 19 11-Dec-21			056	0 0	
MPR61.1.13.5.1.3 Fabrication - Factory C	688 27-jan-20 23-Feb-22	689 27-tan-20 A 23-Feb	22 A (9)	0%	D D	
MPR51.1.13.5.2 OSD - Shipping Market MPR61.1.13.5.2.1 Shipping - Factory A	883 09-Jul-20 16-Dec-22 735 04-Dec-20 16-Dec-22	TODAY PROPERTY AND SECURIOR		O %	ō ō	173
		785 B9 Dec-20 A 16 Dec-		016		128



MUMBAI TRANS HARBOUR LINK PACKAGE 1, **UPDATED REVISED WORK PROGRAMME FOR JUNE 2022**





General Consultant for Mumbai Trans Harbour Link Project

Activity ID	Activity Name	BL1 BL1 Start Duration	BL1 Finish	Original Start Duration	Finish	Schedule % Complete	Performance % Complete	Variance - BL1 Start Date	Variance - BL1 Finish Date	ESSOS 2509 PROPERIOR BALLIMAMIL DIPERIOR MAIN DIPERIOR MAIN DIPERIOR MAIN DIPERIOR MAIN DIPERIOR MAIN AND ASSOCIATION DE PROPERIOR MAIN ASSOCIATION DE PROPE
	MPR51.1.13.5.22 Shipping - Factory B	272 09 Jul-20	26-Aug-22	889 09-Jul-20 A	25 Apr-22 A	014	C%		120	
	MF/R51.1.13.5.2.3 Shipping - Factory C	544 25-Oct-26	28-Apr-22	661 25-Oct-20-A	04-Apr-22-A	0%	0%	0	38	
	MPRS1.1.13.5.3 OSD - Custom Clearance and Inland Transport (Last Module	614 13-Aug-20	09-Jan-23	614 13-Aug-20 A	09 (an 23	46.791	56.25%	.0	Ö	<u> </u>
	MPR51.1.13.5.3.1 OSD 1 - MP50 to MP53 (320m)	202 13-Aug-20	19 May 21	228 13 Aug-20 A	19-Mby 21 A	090	2%	0	Ω	
	MPR51.1.13.5.3.2 OSD 2 - MP89 to MP75 (683m)	468 57-Nov-20	56 Sep-22	467 07-Nov-20 A	15 May 22 A	34,1354	100%	0	(6	
	MPR51 1.13.5.3.3 OSD 3 - MP75 to MP81 (770m)	320 10-Nov-21	09-Jan-23	328 10 Nov 21 A	09-pan-23	45.81%	45.81%	0	Ü	
	MPR51.1.13.5,3.4 OSD 4 - MP124 to MP128 (560m)	345 18-jen-21	21-May-22	391, 18 Jan 21 A	14-Sep-27-	100%	054		-46	
	MPR51.1.13.5.4 OSD - Assembly	619 25-Dec-20	09-May-23	646 25 Dec-20 A	22-Jun-23	0%	0%	0	-27	
	MPR51.1.13.5.4.2 OSD 2 - MP69 to MP75 (683m)	91 25 Dec 20	23-Feb-23	593 25-Dec-20 A	69-Apr-73	49%	CFG.	Ð	42	
	MPR51.1.13.5.4.3 OSD 3 · MP75 to MP81 (770m)	328 28-Feb 22	09 May 28	265 27 Jun 02	22-Jun-23	125(4)	0%	90	-27	
	MPR51.1.13:5:4.4 OSD 4 - MP124 to MP128 (560m)	461 06-Mar-21	11-Feb-23	525 (S-Mar-21 A	02-Feb-23	(%)	0%	0.		
	MPR51.1.13.5.5 OSD - Erection	449 01-Oct-21	23 May 23	476 01-Oct-21 A	23 Sep 23	18.37%	18.47%	O C	-27	
	MPR51.1.13.5.5.1 OSD 1 - MP50 to MP53 (320m)	286 25-Dec-21	14-Feb-23	312 25 Dec-21 A	16-Min:23	34.63%	35.31%	0	0.6	
	MPR51.1.13.5.5.2 OSD 2 - MP69 to MP75 (683m)	238 67-Apr 22	03/Apr /25	215 15 Mar 22 A	03-May-23	7,85%	7.85%	21	-27	
	MPR51.1.13.5.5.3 OSD 3 - MP75 to MP81 (770m)	219 16-5ep-22	23-May-23	208 31-Cet-22	23-5ep-23	ON	0%	-37	-27	
	MPR51.1.13.5.5.4 OSD 4 - MP124 to MP128 (560m)	377 01-0et-21	04-Mar-23	404 01-Ont-21 A	03-Apr-23	50%	50N	0	:-27	
MPI	R51.1.13.6 Crash Barrier Works	324 28-Feb-22	08-Jul-23	284 28-Feb-22 A	21-Oct-23	0%	0.15%	0	-43	o Necessaria
	MPR51.1.13.6.0 Crash Barrier - Design	171 28 Feb-22	17-Aug-22	135 78 Feb. 27 A	24 Oct-22	0%	0%	Ö	-67	
5.1	MPR51.1.13.6.1 Crash Barrier - Sewri Interchange	241 14-101-22	18:May-23	319 07-Jul-22	22-Sep-23	0%	0%	ž	-75	
	MPR51.1.13.6.2 Crash Barrier - Intertidal	173 14-Jul-22	03 Mar 23	201 06 Jun 22 A	31-Mar-23	0%	0.54%	101		
- F M	MPR51.1.13.6.3 Crash Barrier - Marine	167 15-Dec-22	08-rul-23	223 31-Dec-22	21-Oct-23	0%	0%	15	-71	0
MPF	R51.1.13.7 Painting	230 30 Sep-22	29-Jun-23	290 01-Mar-22 A	14-Oct-23	D%	0%	110	-58	27
- N	MPR51.1.13.7.1 Sewn Interchange	226 30-Sep-22	15 Jun 23	290 28-Sep-22	14-0xt-23	ev.	0%	2	-62	27
- N	MPR51.1.13.7.2 Intertidal	140 19 Oct-22	22-Mar-23	163 02-Mar-22 A	14 Apr-23	0%	0%	127		101
	MPR51.1.13.7.3 Main bridge	109 10-Feb-23	29-Jun-23	157 01-Mar-22 A	10-0x1-23	0%	9%		-54	
MPF	R51.1.13.8 Drainage Works	356 28 Feb 22	14-Jun-23	314 15-Mar-22 A	12-Sep-23	0%	0%	-13	-48	67
I € M	IPR51.1.13.8.1 Sewn Interchange	300 02-May 22	14-Jun-23	314 27-Jun-22	12-Sep-23	0%	0%	-34	-48	<u> </u>
	IPR51.1.13.8.2 Main bridge	310 28 Feb-22	18-Apr-23	259 15-Mar-22 A	01-Jun-73	0%	0%	-12	-40	
MPF	R51.1.13.9 Waterproofing and Stone Mastic Asphalt Pavement	235 19-Oct-22	05-Sep-23	288 17-Oct-22	31-Oct-23	0%	0%	2	-51	<u> </u>
M	IPR51.1.13.9.1 Sewri Interchange	215 20-Oct-22	10-Jul-23	237 24-Nov-22	13-Oct-23	0%	0%	-31	54	
M	IPR51.1.13.9.2 Main Bridge	235 19-Oct-22	05-Sep-23	288 17-Oct 22	31-Oct-23	0%			251	
MPR	R51.1.13.10 Expansion Joint	222 10-Nov-22	12-5ep-23	242 14 Dec 22	08 Nov-23	0%	0%	-31	-51	17 Mariana
A M	PR51.1.13.10.1 Sewri Interchange	218 10-Nov-22	08-Sep-23	236 14-Dec 22	01-Nov-23	0%	0%			
Mark Mark	PR51.1.13.10.2 Intertidal	84 18 Jan 23	26-Apr-23	92 75-Jan-73	06-May-23	0%	0/6	-7	15	<u> </u>
	PR51.1.13.10.3 Marine	80 14-Apr-23	12-Sep-23	109 10-May-23	08-Noy-23	0%	G (1)		:51	4
	751.1.13.11 Bridge Ancillaries and Misc. Works	229 01-Nov-22	15-Sep-23	280 29-Oct-22	12-Nov-23	G%6	0%	2	-50	
	PR51.1.13.11.1 Bridge Ancillaries	229 01-Nov-22	15-Sep-23	280 29 Oct-22	12-Nov-23	9%		2	-50	
	MPR51.1.13.11 1.2 Traffic Signages and Marking	226- 01-Nov-22	12-5ep-23	277 29-Oct 22	09 Nov-23	(75 ₆	0%	- 3	-50	
	MPR51.1.13.11.1.2.1 Traffic Signages and Marking - Sewri Interchange	199 16 Nev-22	03-Aug-23	.220 14-Dec-22	20-Oct-23	859	0%	-31	52	<u> </u>
	MPR51.1 13.11.1.2.2 Traffic Signages and Marking - Main Bridge	22E 01-May-22	12-Sep-23	277 29-Oct-22	09-Nov-23	0%	CF/4	2	-50	
	MPR51.1.13.11.1.1 Noise Barrier, View Barrier and Safety Fence	214 18-Nov-22	15-Sep-28	741 13-Dec-22	12-Nov-巴	0%	Ch.	-23	-9	
	MPR51.1.13.11.1.1.1 Noise Barrier	187 15 Dec-22	12-Sep-23	238 13 Dec-22	09-Nov-23	0%	656	2	-50	
	MPR51.1.13.11.1.1.2 View Barrier	84 31-Mar-23	04-Sep-23	80 25-Apr-23	25-Sep-23	0%	0%	-23	-49	
	MPR/1.1/3.11/1.1.3 Safety Fence & Top rail	214 18-Nov-22	15-Sep-23	The same of the sa	12-NoV-23	0%	059		-50	<u> </u>
The same of the sa	51 1.13.12 Navigational aids	32 14-Aug-23	15-Sep-23		10-Nov-23	0 %	0%	-10	-56	
	1.14 Handing Over	26 26-Jun-23	ATTENDED TO SERVICE OF THE PARTY OF THE PART		27-Nov-23	0%	C%	0	-50	
	51.1.14.1 Testing and Handing Over		23-Sep-23		20-Nov-23	C %	.0%	-7	-52 -58	
	51.1.14.2 Final Handing Over		30 Sep-23		27-Noy-23	0%	0%	-58		
MPR51.	1.15 Price Schedule	641 02-Jan-21	30-Sep-23	978 02-Jan-21 A	30-Sep-23	96.7%	96.69%	0	0	. 50



Attachment 7- Package-2's Construction Programme Updated as of 25th June 2022



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 SHIVAJNAGAR INTERCHANGE UNDER IDENTIFICATION NO MMRDA/ENG/000753 # Activity D Activity Name Duration Start Finish

1 of 9 ANNEXURE-5 CONSTRUCTION UPDATED PROGRAMME ABSTRACT (PACKAGE-2) Complete 4 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 ISMSLIRA PRO IECT PRECOMMENCEMENTACIM ZDWa-184, FRE-COMMENCEMENT ACTIVITY V 20-Mar-1BA, JV FORMATIONAND RESISTRATION 0% 22-AUD-19A, MANAGEMENT

7 OTMA-14A, SRIE CHSANISATION

22-AUD-19A, DEVELOPMENT v 22-kub-tejá, devetlőpment őrmánu v 21-sep-18á, devetlőpment őr, worki prográmme ♥♥ 23-Ad-184, OTHER CONTRACTUAL SUBMITTALS D3Aug-19A, PERMIT & APPROVAL 7 (CEF66 21A DESIGN V 12-Noi-19A) EARLY STAGE DE SIGN WORK / NHORMATION COLLECTION V 20A caj Figo Znja, ji FE DESIGNI PROGRAMINJE 04Ap-38A, Survey & Investigation CHW-20A FOUR MENTS ▼ 255-6-20A PRECASTMOUDAND SYSTEM FORM 25-Juh-22 MATERIAL SUPPLIER
25-Juh-22 MATERIAL PROGUREMENT OF STEILL GRODER

12-Juh-20 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-2, MP177-MP182)
12-Juh-20 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-3, MP183-MP183)

11-Juh-20 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-3, MP183-MP183)

11-Juh-20 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-3, MP183-MP183)

11-Juh-20 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-1, MP183-MP183)

12-Fib-21 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-1, MP175-MP171)

10-S-Juh-20 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-1, MP175-MP171)

10-S-Juh-20 A. STEEL PLATE FOR (RHS. STEEL MOUDLE-1, MP175-MP171) 25-jul-19A; PREPARATION WORK

18-jan-19A; ESTABLISHMENTOF EMPOLYER & CONTRACTOR OFFICE
264Apr-39A; ESTABLISHMENTOF LABOUR CAMP 12-May-21A, ESTABLISHNENT OF CONCRETE CASTING YARD 12-May-21A, ESTAB USHMENT OF CONCRETE CASTING YARD
30Mar-21A, ESTAB LISHMENT OF STEELS PANASSEMBLY YARD (C) Apr 23 PRE-PABRICAT

(C) Apr 23 CONCRETE HR

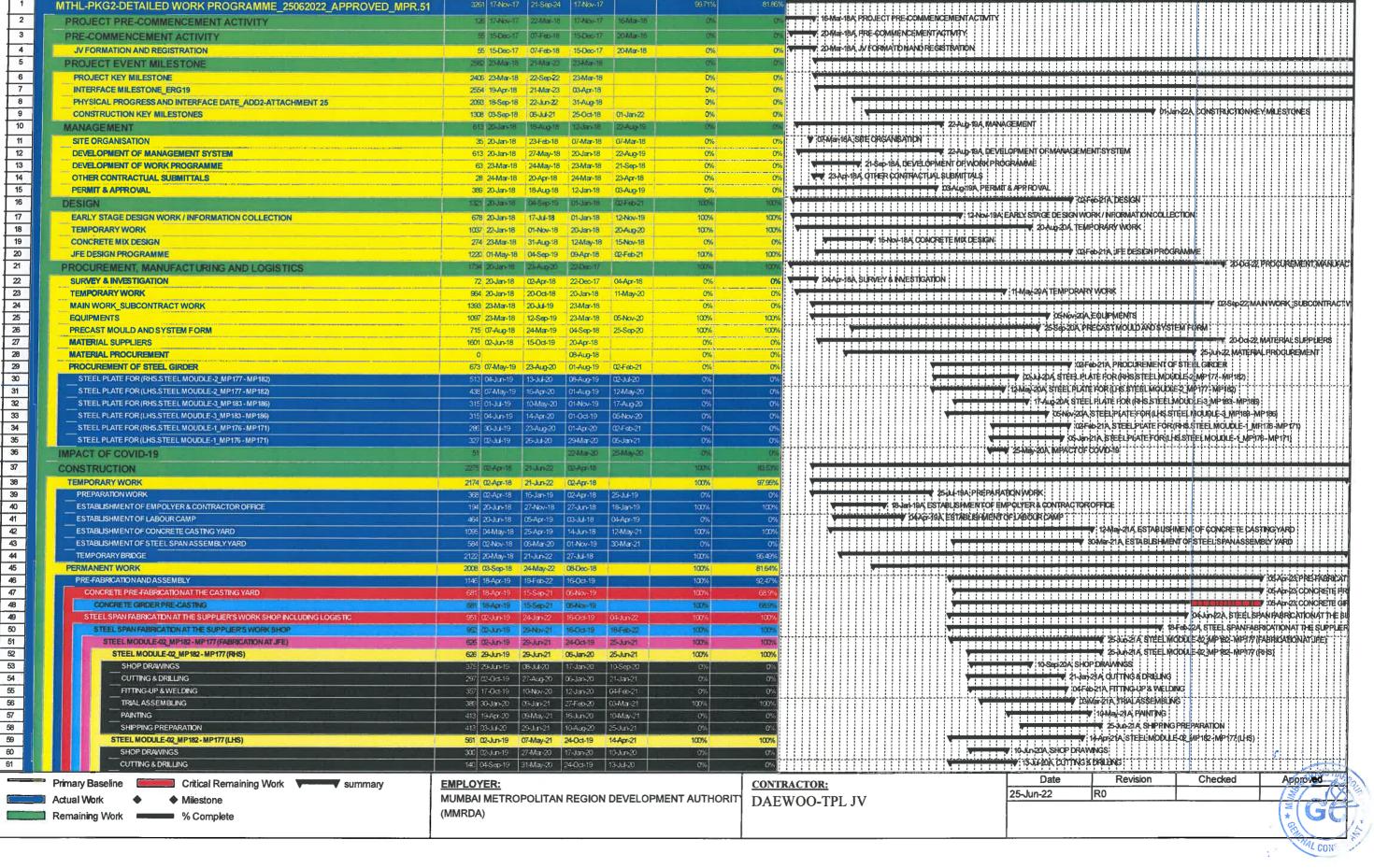
(C) Apr 23 CONCRETE HR

(C) Apr 23 CONCRETE HR

(C) Apr 23 CONCRETE GIF

(C) Apr 24 CONCRETE GIF

(C) Apr 25 CONCRETE GIF 100% DGMer-21A, TRIAL ASSEMBLING 14May-21A PAINTING 25-Jun-21A, SHIPRING PREPARATION
14-Apr-24A, STEEL MODULE OF MIP182-MP177, (LHS) 10 Jun 20A, SHOP DRAWINGS Date Revision Checked Approved 25-Jun-22 IR0



Comple

2 of 9

Activity ID	Activity Name	Criginal BLProject BLProject Actual Start Actual Finish Schedule % Duration Start Finish Complete	Performance %	2020 2021 2022 2023
	FITTING-UP & WELDING	214 19-Sap-19 14-Aug-20 09-Nov-19 02-Sap-20 0%	4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1	G2 03 Q4 Q1 Q2 Q3 Q4 Q1 Q4 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1
	TRIAL ASSEMBLING	228 02-Jan-20 26-Sep-20 20-Mar-20 24-Nov-20 100%		24Nov-20A, TRIALASSEMBLING
	PAINTING	300 074Mar-20 25-Jan-21 154May-20 18-Feb-21 0%	0	18-Feb-29-A, FANTING
	SHIPPING PREPARATION	348 214May-20 074May-21 21-Jui-20 14-Apr-21 0%	0%	:::VV:14-Apr21A,SHRPING RREPARATION
	STEEL MODULE-03_MP186 - MP183 (FABRICATION AT JFE)	734 29-Jun-19 25-Sep-21 16-Oct-19 01-Dec-21 100%		PI-Dec-21A, STEELMODULE;CCLMP:186-MP183(FAB
	STEEL MODULE-03 MP186 - MP183 (RHS)	659 25-Jul-19 25-Sep-21 26-Dec-19 01-Dec-21 100%	1000	D1-D4c-21/A, S1/EELMODULE:03_NIP186-MP183(RI-K
	SHOP DRAWINGS	295 25 J.J-19 15-May-20 25-Dec-19 15-Jun-20 0%	6/A	18-lut-20A SHOP DRAWINGS y OS-CIC-20A CUTTING & DRILLINGS
	CUTTING & DRILLING	181 07-Nov-19 19-Jul-20 01-Apr-20 09-Oct-20 09	0%	OS-OCI-20A, CUTTING & DRILLING
	FITTING-UP & WELDING	266 22-Nov-19 17-0d-20 01-Jun-20 14-Jan-21 0//		14-Jani-21A; FITTING-UP &:WELDING
	TRIALASSEMBLING	284 05-Apr-20 16-Dec-20 03-Aug-20 09-Feb-21 100%	100%	CAFE621A, TRIACASSEMBUNG
	PAINTING	348 24-Jun-20 104May-21 19-Oct-20 30-Sep-21 0%		30/Sép-21A, PAINTING
	SHIPPING PREPARATION		0/2	D1-Deo21A, SISEPING PREPARATION
		- Strike Strike Committee Strike Stri	4000	23.0cL2(A STEE) MODELE-23.MP196-MP198((HS))
	STEEL MODULE-03_MP186 - MP183 (LHS)	653 29-Jun-19 29-Aug-21 16-Oct-19 23-Oct-21 100%	100%	DSNb/20A,SHOP DRAWINGS
	SHOP DRAWINGS	325 29-Jun-19 19-Apr-20 15-Oct-19 05-Nov-20 0%	200	
	CUTTING & DRILLING	304 12-Oct-19 23-Jun-20: 17-Feb-20 23-Dect-20 0%		23-Dec-20A, CUTTING & CHILLING
	FITTING-UP & WELDING	329 27-Oct-19 21-Sep-20 03-Apr-20 21-Jan-21 0%	<u> </u>	-
	TRIAL ASSEMBLING	298 104Mar-20 204Nov-20 10-Jul-20 184Mar-21 100%	100/4	184Mer-ZIÁ, TRIALIAŠSEMBLING VOSAJO-ŽIA, PAINTING
	PAINTING	391 294May-20 14-Apr-21 04-Sap-20 03-Jun-21 0%		72 O+ 214 OLD DECORPORATION
	SHIPPING PREPARATION	96 05-Sep20 25-Aug-21 14-Dec-20 23-Oct-21 09/		i i i i i i i i i i i i i i i i i i i
	STEEL MODULE-01_MP176 - MP171 (FABRICATION AT JFE)	728 25-Jul-19 29-Nov-21 16-Apr-20 18-Feb-22 100%	10%	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
	STEEL MODULE-01_MP176 - MP171 (RHS)	728 26-Jul-19 29-Nov-21 16-Apr-20 25-Jan-22 100%	100%	
	SHOP DRAWINGS	250 25-Jul-19 15-Jul-20 16-Apr-20 24-Dec-20 0%	0//	24-Dejo-20A, \$HOP DRÁWING\$
	CUTTING & DRILLING	196 27-Nov-19 12-0d-20 15-0d-20 04-Feb-21 0%	G(6)	OFFED 21 A CUTTING & DRILLING
	FITTING-UP & WELDING	230 12-Dec-19 31-Dec-20 05-Nov-20 24-May-21 0%	(78)	24-May-21A, FITTING-UP & WELDING
	TRIALASSEMBLING	210 05Apri20 19-Feb-21 10-Feb-21 14-Jul-21 100%	199//	VIII 14JU-21A, TRIALAS SEMBLING
	PAINTING	236 14-Jun-20 29-Jun-21 02-Jun-21 23-Dec-21 0%	0%	23-Deb-21A, PAINTING
	SHIPPING PREPARATION	394 07-Sep-20 25-Nov-21 10-Aup-21 25-Jan-22 0%	0/6	25 Jan-22A, SHIPPING PREPARATION
	STEEL MODULE-01_MP176 - MP171 (LHS)	699 24-Aug-19 01-Nov-21 17-Jul-20 18-Feb-22 100%	100%	18 Feb \$24, STEEL MICHOULE \$1, MP \$76-MP\$77
	SHOP DRAWINGS	35E 24Aug-19 13-Aug-20 17-Jul-20 26-May-21 0%	0%	26-May-21A, SHOP DRAWN(IS:
	CUTTING & DRILLING	199 22-Nov-19 07-Oct-20 05-Aut-22 18-May-21 0%	(0)	y Banay-21A Curtings Criuns
	FITTING-UP & WELDING	294 07-Dec 19 25-Dec 20 24-Aus-20 30-Aus-21 0%		20'AUG-21A FTFTING-UP & WELDING
			104	zołajożia, fitting-up & Welding: 22 odzia, tradia\$senibing
	TRIALASSEMBLING	240 314Mai-20 14Feb-21 15-Dec-20 22-Oct-21 100%		DSJán-22A, PANTING
	PAINTING	336 09-Jun-20 24-Jun-21 17-May-21 03-Jan-27 0%		TSF65-22A, SHIPPING PREPARATION
	SHIPPING PREPARATION	346 03-Sep-20 01-Nov-21 18-Aug-21 18-Feb-22 0%		Multiple Real Daniel Control of the Coal Daniel Coal Daniel Control of the Coal Daniel Control of the Coal Daniel Coal Dani
	STEEL SPAN MATERIAL OCEAN FREIGHT TO THE MUMBALPORT INCLUDING CUSTOM CLEARANCE	641 10-Jul-20 99-Jun-22 01-8ep-20 01-Mar-22 100%	100%	DIAMERIZA, STEEL SPANIMATERIAL OCEAN R
	STEEL MODULE-01_MP176 - MP171 (OCEAN FREIGHT)	235 23-Nov-20 09-Jan-22 28-Sep-21 01-Mar-22 100%	100%	vielenie priedenie priede
	STEEL MODULE-01_MP176 - MP171 (LHS)	143 23-Nov-20 12-Deo-21 28-Sep-21 01-Mar-22 100%	100%	19-Feb-22A STEEL MODULE-01 MP176-MP177
	STEEL MODULE-01_MP176 - MP171 (RHS)	192 29-Nov-20 09-Jan-22 10-Oct-21 13-Feb-22 100%	100%	13-Sep-21A; STEEL MODULE-02_MP182+MP377 (OCEANFR
	STEEL MODULE-02_MP102-MP177 (OCEAN FREIGHT)	417 10-Jul-20 09-Aug-21 01-Sep-20 13-Sep-21 100%	100%	W. 19-364-21-1 STEELING FOR THE TOTAL THE TOTA
	STEEL MODULE-02_MP182-MP177 (LHS)	294 10-Jul-20 17-Jun-21 01-Sep-20 08-Jun-21 100%	100%	CE-UniziA, STEEL MISQUE CO_MPIER-MP177(LPS)
	STEEL MODULE-02_MP182 - MP177 (RHS)	371 27-Aug-20 09-Aug-21 21-Sep-20 13-Sep-21 100%	100%	13-Seq-21A, STEEL MODULE 42, MP182-MP177 (RHS); 24-Deb-21A, STEEL MODULE 43, MP185 MP185 MP185 (C
	STEEL MOUDULE 43_MP186 - MP183 (OCEAN FREIGHT)	347 29-Nov-20 05-Nov-21 06-Mar-21 24-Diso-21 100%	100%	24Deb-21A, STEELMOUDULE-U3_MP185FMP183(C
	STEEL MOUDULE-03_MP186-MP183 (LHS)	285 29-Nov-20 08-Oct-21 06-Mar-21 11-Nov-21 100%	100%	THOO ZIA SIEE MOULUE US MIPIOD MIPIOS LISS
	STEEL MOUDULE-03_MP186-MP183 (RHS)	316 25-Dec-20 05-Nov-21 25-Mar-21 24-Dec-21 100%	100%	24 Deb-21A, STEEL MOUDULE-03 MP186; MP183 (R
	LOADING AND DELIVERY TO THE CONTRACTOR'S ASSEMBLY YARD	555 26Aug-20 24-Jan-22 21-Oct-20 04-Jun-22 100W	100%	V OAJUN BZA, COADING NADO DELIVERA T
	STEEL MODULE-01_MP176-MP171(DELIVERY TO ASSEMBLY YARD)	166 02-Jan-21 24-Jan-22 26-Oct-21 04-Jun-22 100%	100%	USUN-22A, SIEBLMODULE OF MP 1/6
	STEEL MODULE-02_MP182-MP177 (DELIVERY TO ASSEMBLY YARD)	343 20-Aug-20 19-Aug-21 21-Oct-20 13-Oct-21 100%	100%	### 1\$-dosi26A;STEELMODULE-OB_MP182-IMP177(DELMER ### O7-Ma 22A;STEELMODULE-OB_MP185-MP1
	STEEL MODULE-03 MP185 - MP183 (DELIVERY TO ASSEMBLY YARD)	308 09-Jan-21 20-Nov-21 14-Apr-21 07-Mar-22 100%	100%	OF Mai ZZIA, STEEL MODULE OB MIP 186 MP 1
SIII	EEL GIRDERASSEMBLY AT THE CONTRACTOR'S ASSEMBLY YARD	44E 05-Sep-20 17-Fab-22 23-Nov-20 100%	40%	SiDic 25 Ect GRe
_	STEEL MODULE-01 MP176-MP171 (ASSEMBLY WORKS)	94 13-0d-21 17-Feb-22 21-Jun-22 100%	0%	25 OG-22 STEEL MODIQUE Valuer 15 Oct22 STEEL SPANASS
	STEEL SPAN ASSEMBLY MP171 -MP172 G1	50 20Nov-21 05-Jan-22 100%	034	VIIIIII 15 Qct 22 STEEL SPANASSI
	STEEL SPAN ASSEMBLY MP171 - MP172 G2	44 20Nov-21 06-Jan-22 100%		18-Oct-22 STEEL SPANASS
			0/	TEMEN 18-DO-22 STEEL SPANASS TEMEN 24-DO-22 STEEL SPANASS
	STEEL SPAN ASSEMBLY MP172 - MP173 - G1			28/04-22 STEFI SPANASS
	STEEL SPAN ASSEMBLY_MP172 -MP173_G2	44 Z5-Jan-22 17-Feb-22 100%		28/04-22, STEEL SPANASS TOTAL PROFESS STEEL SPANASSE TOTAL PROFESS SPANASSE
	STEEL SPAN ASSEMBLY MP173 -MP174_G1	46 29Nov-21 21-Dec-21 100%		Aming UNIVERSITY STEEL COVINGES
	STEEL SPAN ASSEMBLY_MP173 - MP174_G2	44 11-Nov21 30-Dec-21 100%		the state of the s
	STEEL SPANASSEMBLY_MP174-MP175_G1	48 23-Oct-21 11-Dec-21 100%		The state of the property of the population of the state
	STEEL SPAN ASSEMBLY_MP174 -MP175_G2	46 (2-Nov-21 11-Dec-21 100%	0/6	Uning 22-86-22 STEELSPANASSEN Village 16-86-22 STEELSPANASSEN
	STEEL SPAN ASSEMBLY_MP175 -MP176_G1	50 13-Oct-21 02-Dec-21 100%	074	WHITE ID-SEPAL SIEGLS FARASSEN
	STEEL SPAN ASSEMBLY_MP175 - MP176_G2	40 23-Oct-21 02-Dec-21 21-Jun-22 100%	0%	Nation 14-Sep-22 STEEL STANIABSEN
S	STEEL MODULE-02_MP182-MP177 (ASSEMBLY WORKS)	381 (5-Sep-20 18-Sep-21 23-Nov-20 23-Jun-22 100%	100%	22-jun-22/4, STEEL MODULE-42-MP18
	STEEL SPAN ASSEMBLY MP176 - MP177 G1	220 63-May-21 25-May-21 03-Jul-21 23-Jun-22 100%	100%	23-jan-224, steel spanassembly DI-Mar-224, steel spanassembly impi76-
	OTECESTATION CONTROL OF THE PROPERTY OF THE PR	120 25-Jun-21 25-Jul-21 02-Nov-21 01-Mar-22 100%	100%	D1:Mar 22'A, STEEL SPANASSEMBLY_MP176
	STEEL SPAN ASSEMBLY_MP176-MP177_G2	IZU ZIPOLENE I ZONAPET UETWAYET UTTRIBEZE TOUR		
	STEEL SPAN ASSEMBLY_MP176 - MP177_G2	The same of the sa	I	
Primary Ba	STEEL SPAN ASSEMBLY_MP176 - MP177_G2	EMPLOYER:	CONTRACTOR:	Date Revision Checked Approve
Primary Ba	aseline Critical Remaining Work summary	The same of the sa	1	
Primary Ba Actual Work	aseline Critical Remaining Work summary ork Milestone	EMPLOYER: MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT		Date Revision Checked Approve
Primary Ba	aseline Critical Remaining Work summary ork Milestone	EMPLOYER:	1	Date Revision Checked Approve

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION ANNEXURE-5 CONSTRUCTION UPDATED 3 of 9 (CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJNAGAR INTERCHANGE PROGRAMME ABSTRACT (PACKAGE-2) UNDER IDENTIFICATION NO MMRDA/ENG/000753 Schedule 9 **BLP**rojec Complet 125 STEEL SPAN ASSEMBLY MP177 -MP178 G1 100% DAJANZZA STEEL SPANASSEMBLY MP 177. MP 178 62 126 STEEL SPAN ASSEMBLY MP177 -MP178 G2 100% 100% 75 20-Aug-21 18-Sep-21 1B-Ord-21 04-18-22 20-Lin-21A, STEEL SPANASSEMBLY_MP178-MP178_G1 127 STEEL SPAN ASSEMBLY MP178 -MP179 G 100% 10094 128 STEEL SPAN ASSEMBLY MP178 -MP179 G2 100% 74 25-Apr-21 SUAUGZTA, STEEL SHANASSEMBLY MP 179-MPPIOL GT
28-May-21A, STEEL SPANASSEMBLY MP 179-MPPIOL GT
27-OX-31A, STEEL SPANASSEMBLY MP 180-MP180 G2:
(COMBA):25A, STEEL SPANASSEMBLY MP180-MP181 G3: 17-Att-21 30-Aug-21 129 STEEL SPAN ASSEMBLY_MP179 -MP180_G1 100% 130 STEEL SPAN ASSEMBLY MP179 -MP180 G2 1000% 184 25 Feb-21 20-Mar-21 DBFeb-21 27-Oct-2 131 STEEL SPAN ASSEMBLY MP180 -MP181 G1 100% TO OF Nin 21A, STEEL SPANAS SEMBLY MP 180-NIP 181 GZ 132 STEEL SPAN ASSEMBLY MP180 -MP181 G2 55 19-Dec-20 100% 11-Jan-21 04-Jun-21 23-Mar-21A, STEEL SPANASSEMBLY MR181-MP182 G1 133 STEEL SPAN ASSEMBLY MP181 -MP182 G1 100% 72 05-Sep-20 29-Sep-20 23-Nov-20 23-Mar-2 81-Mar-21 A, STEEL SPANASSEMBLY MP181 - MP182 G2 134 STEEL SPAN ASSEMBLY MP181 -MP182 G2 100% 78 22-Oct-20 14-Nov-20 pisę zzstelspanasembly who 135 136 137 100% STEEL SPAN ASSEMBLY MP182 -MP183 G1 38 (0-Aup-21 18-Oct-21 29/Aug-22 STEEL SPANASSEMBLY MP1 STEEL SPAN ASSEMBLY MP182 -MP183 G2 89 24-Aug-21 28-Oct-21 244Mm-2 100% 08-Sepi 22, STEEL SPANASSEMBLY, MP 138 STEEL SPAN ASSEMBLY_MP188 -MP184_G1 100% 38 04-Oct-21 28-Oct-21 24-Jan-22 CGSpp;22 STEEL SPANASSEMBLY MP 139 STEEL SPAN ASSEMBLY MP183 -MP184 G2 53 01-Nov-21 22Feb-2 100% 22-Aug-22 STEELS PANASSEMBLY MP18 140 141 STEEL SPAN ASSEMBLY MP184 -MP185 G1 100% 240 24-14-21 08-Oct-21 10-34-21 \$110eo/22 STEELSPANASSEM STEEL SPAN ASSEMBLY MP184 -MP185 G2 02-Dec-2 100% 81 05-Aug-21 08-0:s-21 28-Jul-22, Steel Stanassembly infines-142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 STEEL SPAN ASSEMBLY MP186 -MP186 G1 244 05-Jul-21 16-Aug-21 25-May-21 100% 09-Aug-22 STEEL SPANASSEMBLY MP18 STEEL SPAN ASSEMBLY MP185 -MP186 G2 100% 242 10-Jul-21 28-Sep-21 29 May - 21 B1 00-22 STEEL SPAN LOADING AND 31-04-22 STEELMODULE OF MIP176 STEEL MODULE-01 MP176 - MP171 (LOAD OUT AND TRANSPORT 27-Jun-22, STEEL MODULE OF MP188-MP177(C 55 33-Sep-20 21-Sep-21 ♥ 10 Sep-22, STEELINIODULE 03 MP 186-IV STEEL MODULE-03 MP186-MP183 (LOAD OUT AND TRANSPORT) OĐANG ZZ, MAN BRIDGE FOLNDATION MAIN BRIDGE FOUNDATIO 21-Feb-22A MAINBRIDGE PILE FOUNDATION # 15-Am-bo'A, MAIN ERDGE PILE FOUNDATION, LAND 17-414-18-187 FROM MP250 TO MF256
D6-Mari-20A, MODULE:21_MP261-MP257 PRELOADTES 19-Nov-18 11-Nov-19 100% MAIN BRIDGE PILE FOUNDATION_LAND 17+414-18+187 FROM MP250 TO MP260 100% 323 30-Nov-18 15-May-19 23-Aug-19 MODULE-21 MP261 - MP257 126 30-Nov-18 06-Mar-19 06-Mar-20 100% 100% 28-jun-20A MICIDULE-22 MP286-MP282 MODULE-22_MP266 - MP262 100% 100% 167 06-Mar-19 15-May-19 17-Jan-19 28-Jan-20 19-Mat-20A, MODULE-20-MP256-MP256 25-Sep-19 MODULE-20 MP256 - MP256 10-Jan-19 19-Mar-20 100% 100% 21-Feb-SDA, MICIDIULE-14, MP231-MIP227 11-Jin 20A, MODULE 19 MP254-JMP250 MODULE-19_MP254-MP250 100% 199 11-Jan-19 16-Apr-19 11-Jun-20 100% 05-Oct-19 MAIN BRIDGE PILE FOUNDATION CRZ 15+890-17+414 FROM MP226 TO MP2 100% MODULE-14 MP231 - MP227 100% 100% 48 17-Aug-19 27-Nov-19 08-Nov-19 21-Feb-20 25 Dec 19 A, MODULE 15 MP 236 - MP 232 77 08-Mar-19 26-Aug-19 08-Aug-19 MODULE-15 MP236 - MP232 25-Dec-19 100% 100% 11-Nov-19A MODULE-16 MP240 -MP237 MODULE-16_MP240-MP23 113 20-Dec-18 06-Mar-19 12-Jun-19 11-Nov-19 100% 100% Oduja 20A MODULE 17 MP245-MP241 MODULE-17 MP245-MP241 94 20-Mar-19 17-Jun-19 09-Oct-19 04-Jan-20 100% 1000% 162 163 ośładzia Moóule 16 Mirzeb - Mpzes 26 Aug-20A, MAIN BRIDGE PILE FOUNDATION IN 74 21-Jan-19 100% 100% 09-Feb-20 26-Mar-19 15-Oct-19 MAIN BRIDGE PILE FOUNDATION INTERTIDAL 14+800-15+890 FROM MP206 TO MP22 100% 25-AUG-20A, MAIN BRUIGE 1BFe6-2DA, MODULE-10_MP231; MP207 164 165 MODULE-10_MP211 - MP207 243 12-Mar-20 06-Jun-20 18-Feb-20 100% 100% 01-Nov-19 ➡ 24Feb20A, MODULE-11_MP216-MP212 MODULE-11 MP216-MP212 277 27-Feb-19 03-Apr-20 15-Oct-19 24-Feb-20 100% 100% ZSAUGŁOŚ MODUJE 12 MPZZI - MPZZI W 16-UnizJA MODUJE 13 MPZZE - MPZZ 166 167 168 MODULE-12 MP221 - MP217 225 06-Apr-19 100% 100% 30-Oct-19 25-Feb-20 26-Aug-20 MODULE-13 MP226 - MP222 313 30-Od-19 06-Feb-20 16-Jun-20 100% 100% 24-Jan-20 MAIN BRIDGE PILE FOUNDATION_MARINE 13+610-14+600 FROM MP187 TO MP208 531 12-Dec-19 100% 13-Goizda,Module-oe,Mrzda-Mrzdz 169 MODULE-09 MP208 - MP202 340: 12-Dec-19 | 06-Mar-20 01-Oct-19 13-Oct-20 100% 100% 25 Dec-20A, MODULE DE MP201 - MP197 170 MODULE-08_MP201 - MP197 262: 22-Feb-20 19-May-20 100% 100% 19-Feb-20 25-Dec-20 OZ FIGOZIA, MODULE OZ MP196 IMP192 171 MODULE-07 MP196 - MP192 146 02-May-20 08-Sep-20 0. Feb-22 100% 100% 12-Oct-20 10-Feb/22A,MODULE-0E_MP191 -MP187 172 MODULE-06_MP191 - MP187 31-Aug-20 10-Dec-20 100% 82 21-Aug-20 28-Nov-20 100% 21-Feb-22A MAINE 15-Feb-22A STEEL MODULE-03 MP (85-MP) 88 173 MAIN BRIDGE PILE FOUNDATION MARINE (STEEL) 11+880-13+610 FROM MP 171 TO MP 18 678 27-Nov-19 23-Jan-21 21-Feb-22 100% 10094 174 STEEL MODULE-03_MP186 - MP183 100% 100% 80 30-May-20 21-Nov-20 08-Oct-20 15-Feb-21 25 Jah 21A, STEEL MODULE-02_MP 183-MP 177 175 STEEL MODULE-02 MP182 - MP177 10-Sep-20 17-Mar-20 100% 100% 336 27-Nov-19 21-Feb-22A, STEELMIGDULE-OT, MP176-MP177.

21-Peb-21A, MAN BRIDGE PILE FOUNDATION MARINE 104360

21-Peb-21A, MODULE-OS, MP171-MP167 176 STEEL MODULE-01_MP176 - MP171 185 30-Jul-20 23-Jan-21 19-Apr-21 21-Feb-22 100% 100% 177 MAIN BRIDGE PILE FOUNDATION_MARINE 10+380-11+880 FROM M P146 TO MP17 723 24-Nov-18 28-Dec-19 100% 100% 178 MODULE-05_MP171 - MP167 100% 100% 193 19-Jun-19 16-Oct-19 24-Feb-21 21-Dec-21 * 20 feb 21 A, MODULE OF MP 1861 MP 166 179 MODULE-04 MP166 - MP162 18-Feb-19 19-Feb-19 20-Feb-21 100% 100% 25 Mar 21 A, MODULE 03 MP 161 - MF157 180 MODULE-03_MP161-MP157 100% 100% 3931 22-Jan-19 16-April 19 03-Apr-19 25-Mar-21 27-Ma-21A MODIUE-02 MP 158-MP 152 181 MODULE-02 MP156 - MP152 94 16 Apr-19 27-Jul-19 21-Dec-20 27-Mar-21 100% 100% 182 03-Apr-21A, MODULE-01_MP151-MP146 MODULE-01 MP151 - MP146 107: 04-Oct-19 | 28-Dec-19 100% 100% 23-Dec-20 : 03-Apr-21 2 SHUN-22 MANBRIDGE PILE CAP BOTTOM SLA 183 184 AIN BRIDGE PILE CAP BOTTOM SLAB INSTALLATION 1005 22-Dec-18 17-Feb-21 28-May-20A, MAIN BRIDGEPILE:CAP BOTTOM SLAB COLOTS 15-890-17-4414 FROM MP29 TO MP290. 185 MAIN BRIDGE PILE CAP BOTTOM SLAB CRZ 15+850-17+414 FROM MP 226 TO MP 250 356 17-Jan-19 12-Dec-19 19-Aug-19 28-May-20 0% 28 May 20A, MODULE 14 MP231 - MP227 186 168 28-Sec-19 12-Dec-19 24-Dec-19 21-Feb-20A, MODULE-15_MP236-MP232 MODULE-15_MP236-MP232 05-Apr-19 11-Sep-19 02-Nov-19 Revision Date Checked Approved CONTRACTOR: Primary Baseline 🥅 Critical Remaining Work 🔻 25-Jun-22 R0 Actual Work ◆ Milestone MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT DAEWOO-TPL JV (MMRDA) Remaining Work % Complete

ANNEXURE-5 CONSTRUCTION UPDATED PROGRAMME_ABSTRACT (PACKAGE-2)

4 of 9

	and the same of th			
Activity D	Activity Name	Original BLProject BLProject Actual Start Actual Finish Schedula % P Duration Start Finish Actual Finish Complete	erformance %	2020 2021 2022 2023 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3
	MODULE-16_MP240 - MP237	142 17-Jan-19 25-Mai-19 19-Aug-19 23-Feb-20 (%)	9 U1 U2 U3 U4 U1 U2 U3	29-eb-204, MODDUE-16.)WP240-MP237
	MODULE-17_MP245 - MP241	44 17-April 9 (3-Jul-19 22-Oct-19 04-Jan-20 09)	0%	DAJanzo A, MODIUE-TO, MP245-MP241
	MODULE-18_MP249 - MP246 MAIN BRIDGE PILE CAP BOTTOM SLAB_INTERTIDAL 14+800~15+890 FROM MP206 TO MP2	63 15Fath 19 12-April 9 06-Nov-19 10-Feb-20 0% 0% 25 186 06-April 9 18-Jul-20 30-Dec-19 30-Nov-20 0%	0%	7 10 Feb-24A, MOQULE-16, MP249 - MP246 V SCHO-20A, MAN BRIDGE PRE CAP BOTTOM SLAB INTERTIDAL 14-800-15480
	MODULE-10_MP211 - MP207	95 15-Apr-20 18-Jul-20 33-Dec-10 33-Sep-20 0%	0%	: ; ; <u> </u>
	MODULE-11_MP216-MP212	128 05Apr-19 15-Apr-20 094Mar-20 19-0ct-20 0%	0%	11-0cl-20A; MODULE-11_MR216+MP212
	MODULE-12_MP221 - MP217	74 19M3y-19 12Nov-19 11-Sep-20 30-Nov-20 0%	0%	SONO-20A MODULE 12 MP221-MP27
	MODULE:13_MP226-MP222 MAIN BRIDGE PILE CAP BOTTOM SLAB_MARINE 13+6:10~14+800 FROM MP 167 TO MP205	59 03-Dac-19 18-Fain-20 27-Apr-20 25-Qct-20 0% 0% 420 21-Jan-20 10-Dac-20 16-Nov-19 09-May-22 0%	0%	ZS-D¢HZOA, MICHONUE-13, MPZ25-MF222 W OS-Maj-22A, MAIN BRIDGE PILLE CAP BO
	MODULE 09_MP206 - MP202	289 21-Jan-20 20-Mar-20 16-Nov-19 11-Nov-20 0%	0%	v
	MODULE-08_MP201 - MP197	50 234Mar-20 304May-20 11-Nov-20 25-Feb-21 0%	0%	7 11-No-24A MODULE-08 MP265 MP202 25-Feb-21A MODULE-08 MP201-MP197
	MODULE-07_MP196 - MP192 — MODULE-06_MP191 - MP187	157 304May-20 18-0d-20 15-0d-20 09-4May-22 0%		W 10-May-22P MODULE-U MIC ISO-MIC IS
	MAIN BRIDGE PILE CAP PRECAST SHELL MARINE (STEEL) 11+880-13+610 FROM MP171 TO	77 06-Oct-20 10-Dec-20 23-Nov-20 25-Jan-21: 0% 09-00 0	0%	**************************************
	STEEL MODULE-01_MP176-MP171	167 02-Nov-20 17-Fab-21 05-Nov-21 0%	0%	25 jun-22, STEEL MOCHUE (OI_MP17
	STEEL MODULE-02_MP182 - MP177	118 08-Jan-20 26-Sep-20 11-Od-20 29-Feb-21 0%	0%	25Feb-21A, \$TE6LMQDULE-02;MPI82-MR177
	STEEL MODULE-03_MP186-MP183 MAIN BRIDGE PILE CAP BOTTOM SLAB. MARINE 10-380-11+880 FROM MP146 TO MP170	194 07-Aug-20 109-Dec-20 19-Jan-21 20-May-22 0%		22 jap 22A, MANBROGE PILE GAP BOTTOM SI
	MODULE 05 MP171 - MP167	300 22-Dec-18 21-Jan-20 28-Jan-21 22-Jan-22 0% 108 24-Aug-19 28-Oct-19 25-Mai-21 05-Jan-22 0%	0%	22-jun-224, MAN BROGE FILE ÇAP BOTTOM BI V OSLIN-224, MODULE OSLIN PROSPORTOR BI V OSLIN-224, MODULE OSLIN PROSPORTOR BISTORIA BI
	MODULE-04_MP166-MP162	199 23-Dec-16 014Mar-19 15-Feb-21 22-Jan-22 0%	0%	22-jean-22/1, M/CIDÚLE-(44_MP166-MP168
	MODULE-03_MP161 - MP157	117 01-Mai-19 10-May-19 25-Jan-21 20-Oct-21 0%	9%	A 2021, MOULES MI IOI M
	MODULE-02_MP156 - MP152 MODULE-01_MP151 - MP146	53 15-May-19 15-Aug-19 15-Feb-21 17-May-21 0% 198 01-Nov-19 21-Jan-20 11-Feb-21 24-Ost-21 0%	3 0%	17-May-21A, MicDüLE-02, MP 156-MP162 24-Oct-21 A, MicDüLE-01 MP 151-MP146
	MAN BREIGE PLE CAP INSTALLATION	198 01-Nov-19 21-Jan-20 11-Eeb-21 24-Oct-21 07- 1098 27-Duc-18 23-Mar-21 01-May-19 100%		17-May-21A, MQDULE-42_MP 156-MP162 \$4-Dd-21A, MQDULE-41_MP151-MP146 \$4-Dd-21A, MQDULE-41_MP151-MP146 \$7-July-20A, MANNBRIDGE PILE CAP_LAND \$7-444-18+188FROM MP251 TO MP186
	MAIN BRIDGE PILE CAP_LAND 17+414-18+188 FROM MP251 TO MP265	377 27-Dec-18 13-Jun-19 01-May-19 27-Jun-20 100%	100%	
	MODULE-21_MP261-MP257	248 27-Dec 18 30-Mar-19 15-Oct 19 27-Jun-20 100%	1000	▼ 27-Juh-20A, MICDULE-21_MP2691-MP2697 16-Micy-20A, MICDULE-22_MP2693-MP2692
	MODULE-22_MP266-MP262 ———————————————————————————————————	207 02-Apr-19 13-Jun-19 01-May-19 15-May-20 100% 100% 54 01-Jun-19 01-Fat-19 29-Nov-19 29-May-20 100%	100%	234niy-20A, MOOULE 20 MP255-MP255
	MODULE-19_MP254-MP250	218 08 Fab: 19 13 May-19 23 Nov-19 29-Jun-20 100%	100%	"THE PROPERTY OF THE PROPERTY
	MAIN BRIDGE PILE CAP_CRZ 15+890-17+414 FROM MP226 TO MP250	328 04Mar-19 08-Jan-20 28-Aug-19 19-Sep-20 100%	100%	19-\$-\$-204, MAINBRIDGE PLLE CAP_CRZ15+80-17+314FROM MP226TD MP250
	MODULE-14_MP231 - MP227	230 24-0xt-19 08-Jan-20 11-Jan-20 13-Sep-20 100%	1009/	18-\$ep-20A, MODULE-14, MP231-MP227 18-\$ep-20A, MODULE-15, MP236-MP239
	MODULE-15_MP236-MP232 MODULE-16_MP240-MP237	201 02-Sep-19 22-Nov-19 16-Nov-19 18-Sep-20 100% 146 02-Jul-19 29-Sep-19 29-Aug-19 09-Mar-20 100%	100%	05-Mar-20A-MODULE-16 MP240-MP287
	MODULE-17_MP245-MP241	9F 294pr 19 16-Aug-19 17-Nov-19 24-Jan-20 100%		W-W 24Jeh-20A, NCOCUE-17_MP245-MP241
	MODULE-18_MP249-MP246	84 04Ma-19 10May-19 13Nov-19 14Feb-20 100%	100%	<u>₩ ₩</u> 14-Feb;20A;MODULE-18_MP249-MP246
	MAIN BRIDGE PILE CAP_INTERTIDAL 14+800-15+890 FROM MP206 TO MP225 MODULE-10 MP211 - MP207	199 18-Apr-19 05-Sep-20 29-Jan-20 07-Dec-20 100%	100%	7:07-Deci20A, MAIN BRIDGE PILE CAP_INTERTIDAL 1:44-800-15+890 FROM MP205T0
	MODULE-10_MP211-MP210 MODULE-11_MP216-MP212	96 27-Apr-20 05-Sap-20 29-Jan-20 07-Oct-20 100% 157 19-Apr-19 13-May-20 31-Auxy-20 24-Oct-20 100%	100%	→ 24-Dd-2DA, NIODGUE-11_MP216-MP212
	MODULE-12_MP221 -MP217	111 23May-19 09Dec-19 17-Sep-20 07-Dec-20 100%	100%	Oźdecizda; MotouLE-12 MR221 - MP217
	MODULE-13_MP226 - MP222	54 14 Dec-19 17-Mar-20 16-Sep-20 19-Nov-20 100%	1907/	†9-Aksi-doA, MidDELE-tsj.MPdd6-MP2d2 33-Meh-dd2A, MAN BRIDGE PEE CAP M
	MAIN BRIDGE PILE CAP_MARINE 13+610~14+800 FROM MP187 TO MP205 MODULE-09 MP206 - MP202	413 01-Feb-20 06-Jan-21 13-Jan-20 23-May-22 100% 286 51-Feb-20 16-Apr-20 13-Jan-20 23-May-22 100%	100%	20Nov-20A MODULE-69 MP206-MP202
	MODULE -08_MP201 - MP197	63 03-Apr-20 03-Jul-20 23-Nov-20 03-Mar-21 1007		vielety 04Mer≥1A,MoQUE 08,MP201-MP197
	MODULE-07_MP196 - MP192	. 97 15-Jun-20 -11-Nov-20 014Dec-20 23-May-72 100%	1007	33-May-22A, MCDUGE-07; MP195-MP19
	MODULE-06_MP191 - MP187 MAIN BRIDGE PILE CAP MARINE (STEEL) 11+880-13+610 FROM MP171 TO MP186	90 21-00:520 05-Jan-21 14-Dec-20 30-Jan-21 100% 468 20-Jan-20 23-Mar-21 18-Nov-20 100%	986%	マール 3のようかが 100 mm また Model in the interest i
	STEEL MODULE-01 MP176-MP171	468 20-Jan-20 23-Mar-21 18-Nov-20 100%	90.00%	OŚAŁO 22 MAINBRIDGE PILE ÇA
	STEEL MODULE-02_MP182 - MP177	158 20-Jan-20 02-Nov-20 18-Nov-20 09-Mar-21 100%	100%	OSIMAS ZIA, STEELIMODULS OP 192 - MP 192 - MP 177.
	STEEL MODULE-03_MP186-MP183	33C 27-Aug/20 07/Jan/21 28-Jan/21 28-May/22 100%	130%	23 May 22A, STEELIMIDDULE OS IMPHE 23 May 22A, MAINEBRIDGE PILE CAP, MARN
	MAIN BRIDGE PILE CAP_MARINE 10+380-11+880 FROM MP146 TO MP170 MODULE-05 MP171-MP167	323 03-Jan-19 17-Feb-20 08-Feb-21 23-Mar-22 100% 119 19-Sep-19 25-Nov-19 13-Apr-21 22-Jan-22 100%	100%	22-Jah-22/I, MODULE-05 MP1711-MP167
	MODULE-04_MP166 - MP162	283 03-Jan-19 29-Mar-19 01-Mar-21 23-Mar-22 100%	100%	22-Jap-22/i, MODUJLE-05, MP171-NIP167 23-M:i-12-A, MODULE-04, MP166-MP162
	MODULE-03_MP161 - MP157	141 144/lar-19 08-Jun-19 08-Feb-21 28-Oct-21 100%	100%	28:00:4-21A, MQDULE-03:MP161-MP157
	MODULE-02_MP156 - MP152	54 274May-19 29-Sap-19 054Mar-21 274May-21 100%	190/K	ZYMĄYZYĄ MODDUEIOZ MIPTISI - MIPTISI
MAR	MODULE-01_MP151 - MP146 NBRIDGE SUB-STRUCTURE	132 14-Nov-19 17-Feb-20 22-Feb-21 03-Nov-21 100% 1242 09-Jain-19 24-Sep-21 04-Nov-19 100%	120% 88(02%	
- CANALINA	IAN BRIDGE PIER INSTALLATION	1242 09-Jan-19 28-Jul-21 04-Nov-19 100%	36334	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	MAIN BROGE PIER_LAND 174414-18+188 FROM MB251 TO MB266	681 09-Jan-19 08-Nov-19 08-Nov-19 27-Aug-21 100%	100%	27-Aug-21A, MAN BRIDGE PER: LAND 174-414-18+188FROM
	MODULE-21_MP261-MP257 MODULE-22_MP266-MP262	301 14-Jan-19 12-Jul-19 27-May-20 03-May-21 100% 100% 315 04-May-19 08-Noy-19 05-Noy-19 02-Feb-21 100%	100%	CS/MBy/22A_MCDUUE-22_MH281-14H/257 CSF6b21A_M0DUUE-22_MP286-MP282:
	MODULE-22_MP266 - MP255 MODULE-20_MP256 - MP255	225 09-Jan-19 17-May-19 11-May-20 21-Jun-21 100%	100%	21-Nr-21A, MODULE-20 MP285-MP255
	MODULE-19_MP254-MP250	336 28-Feb-19 20-Sep-19 15-Jun-20 27-Aug-21 100%	100%	i i i i i i i i i i i i i i i i i i i
	MAIN BRIDGE PIER_CRZ 15+990-17+414 FROM MB226 TO MB250	380 254Mar-19 05-Feb-20 04-Nov-19 11-Aug-21 100%	310014	A HAROS VINDA BALLO CAST STORE LA LA COMMINI
Primary Ba	aseline Critical Remaining Work summary	EMPLOYER:	CONTRACTOR:	Date Revision Checked Approv
Actual Wor	-	MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT	DAEWOO-TPL JV	25-Jun-22 R0
		(MMRDA)		
Remaining	Work Complete	(Marin Co. 1)		W WAY

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION ANNEXURE-5 CONSTRUCTION UPDATED 5 of 9 (CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJNAGAR INTERCHANGE PROGRAMME ABSTRACT (PACKAGE-2) UNDER IDENTIFICATION NO MMRDA/ENG/000753 Schedule 9 2015 2019 2020 2021 2022 2023 202 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 04 | 01 | 02 | 03 | 251 MODULE-14 MP231 - MP22 400% 08-Npw20A.MODULE-15 MP236-MP232 252 MODULE-15 MP238-MP232 100% 134 16-Oct-19 06-Jan-20 08-Nov-20 100% 19/Dec-19 253 27-Jun-20A, MODULE-16_MP240-MP237 MODULE-16 MP240-MP237 100% 100% 23-Jun-20A, MODULE-17_MP245-MP241 254 MODULE-17 MP245-MP241 V 11-Aug 21A; MODULE-18 MP249; MP246
V 08-Nin-21A; MAN BROKE-PIER MITERTIDAL 141-800V 03-F60-21A; MODURE-10 MP211-MP27 171 22-May-19 25-Sep-19 100% 100% 24-Dec-19 23-Jun-20 255 MODULE-18 MP249-MP246 100% 100% 02-Mar-20 256 AIN BROIGE PIER INTERTIDAL 14+800-15+890 FROM MB208 TO MB22 100% 257 258 259 260 261 MODULE-10_MP211 - MP207 100% 100% 22-May-21-A, NICOCULE-11_MP216-14P212 MODULE-11 MP216-MP212 386 11-May-19 100% 17-14-20 13-Nov-20 22-Mar-21 100% 20 f-of-zin, MODULE-12, MF221 - MF227 - MF227 - MF227 - MF227 - MF226 - MF228 MODULE-12_MP221 - MP217 100% 100% 97 17-Jun-19 03-Jan-20 30-Nov-20 MODULE-13 MP226-MP222 235 06-Jan-20 15-May-20 100% 100% 29-Oct-20 20/Feb-21 MAIN BRIDGE PIER_MARINE 13+610-14+800 FROM MB187 TO MB205 24 Jan-22A, MIGDULE-05, MP191-MP187 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 286 286 287 288 289 290 291 MODULE-06 MP191 - MP187 10.7% 173 13-Nov-20 18-Feb-21 19-Oct-21 24-Jan-22 100% 12-Dec-22, MICDULE-07_MP196-N MODULE-07 MP196 - MP192 100% 81,31% 16-Oc#21A;MODULE-08_MR201-MP197 MODULE-08 MP201 - MP197 100% 162 25-Apr-20 03-Sep-20 04-Jan-21 16-Oct-21 100% 18-Mai-21 A, MODULE-09_MP206-NP202 MODULE-09 MP206 - MP202 23-May-20 18-Mar-21 100% 100% MAIN BRIDGE PIER_MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB188 100% 496 17-Feb-20 23 Jan-23 STEELMODULE OIL STEEL MODULE-01 MP176 - MP171 100% 188 23-Dec-20 28-Jul-21 18-Jan-22A STEEL MODULE-02 MP182 MP177 STEEL MODULE-02_MP182 - MP177 170 17-Feb-20 15-Jan-21 08-Feb-21 18-Jan-22 100% 100% 15-Oct 22, Steel Module -03 MP188-17-May-224, MAINBRIDGE PIER; MARINE 10: 380-STEEL MODULE-03 MP186 - MP183 100% 625% 247 06-Oct-20 03-Apr-21 12-Oct-2 MAIN BRIDGE PIER MARINE 10+380-11+880 FROM MB146 TO MB170 187 07-Feb-19 100% 07.34-22A MODULE OF MP181-MP186 13Mar-20 13-Mar-20 MODULE-01 MP151 - MP146 129: 10-Dec-19 100% 100% 29 Jan 22 A. MODULE 02 MP 156 - MP 152 MODULE-02 MP156 - MP152 77 11-14-19 100% 100% 04-Nov-19 25-Oct-21 29-Jan-22 12-No. 22A MODULE-08 MP-161 MP-157
28-Ap--22A MODULE-04 MP-168-MP-162 MODULE-03 MP161 - MP157 100% MODULE-04 MP166 - MP162 84 07-Feb-19 100% 06-May-19 24-Jan-22 28-Apr-22 7-Way-22A, WODULE-05, MP 171-WF 167 MODULE-05 MP171-MP167 69: 10-Oct-19 31-Dec-19 18-Feb-22 17-May-22 100% 100% 28 Fao 23 MAIN BRIDGE PI 287-66-23, MAIN BRIDGE PIER CAP_LAND 17-4416-V: 14-Q0421AIMODULE-21_MR261 - MP25/ MAIN BRIDGE PIER CAP LAND 17+414-18+188 FROM MB251 TO MB2 MODULE-21_MP261 - MP257 159 13-Feb-19 05-Aug-19 11-Feb-21 14-Oct-21 100% 100% 13-Mar-21A: MODULE-22: MP286 | MP282 2- Nov-21A: MODULE-20: MP286 | MP282 MODULE-22 MP266 - MP262 114 03-Jun-19 23-Nov-19 13-Nov-20 13-Mar-21 100% 1/17/19/ MODULE-20_MP256 - MP255 100% 100% 182 08-Feb-19 01-Jun-19 07-Jan-21 22-Nov-21 17-Jan 2224 MODULE-16 MR254: MP250 24-Sep-21A MAIN/BRDIGSE PLETICAP ORZ 15-1800-17-1414/FROM MB 212: 30-Mar-19 09-Oct-19 MODULE-19 MP254 - MP260 01-Mar-21 17-Jar-22 100% 1009 IAIN BROKE PIER CAP CRZ 15+890-17+414 FROM MRZ/6 TO MRZ 100% 28 May 21 A, MODULE-14, MPZSI - MPZZ7

22 Feb-21 A, MODULE-15, MPZSS - MPZS2 MODULE-14 MP231 - MP227 28-May-21 100% 100% 83 30-Dec-19 25 Feb-20 MODULE-15 MP236-MP232 100% 100% 22-Feb-2/A, MICHOLIE 16 MP240 - MP247 64. 11-Nov-19 07-Jan-20 12-Oct-20 22-Feb-21 MODULE-16 MP240 - MP239 132 21-Sep-19 19-Nov-19 100% 100% 14-May-20 23-Dec-20 22-De6-20A, MODULE-17 MP245 MP241 MODULE-17_MP245-MP241 163 05-Jul-19 16-Oct-19 22-Dec-20 100% 100% 25-Feb-20 24 Sep 21 A, MODULE-18, MP 249 - MP 246 MODULE-18 MP249-MP246 201 19-Apr-19 02-Jul-19 22-Oct-20 24-Sep-21 100% 100% 13-Jon 22A MAIN BRIDGE PIER CAP INTEREDA 100% 277 05-Jun-19 W 14-Jan 22A MODULE-10 MR211 - MP207 MODULE-10 MP211 - MP207 174 20-Mar-20 05-Nov-20 02-Aug-2 100% 100% 26-Nov-21A MODULE-11_MP216-MF2(2 MODULE-11_MP216-MP212 24-Seb 21 A. MODULE 11 MP221 - MP227 -209: 06-Jun-19 100% 18-Aug-20 21-Jun-21 26-Nov-21 1009 MODULE-12 MP221 - MP217 22-Jan-20 01-Mar-21 24-Sep-21 100% 100% 100 24-Jul-19 292 293 294 295 07.Jul-21A, MODULE-13_MP228-MP222 MODULE-13_MP226 - MP222 100% 100% 187: 30-Jan-20 04-Jun-20 04-Feb-21 07-14-21 MAIN BRIDGE PIER CAP MARINE 13+610-14+800 FROM MB187 TO MB20 100% 29-Do-22-MODULE-07 MF188 MODULE-06_MP191 - MP187 100% 124 18-Dec-20 10-Mar-21 20-Jan-22 22.5% 131 10-Sep-20 MODULE-07_MP196 - MP192 100% 76 18% 07-Jar-21 18-Nov-21 OBWA ZZA MODULE OB MEZOT ME 197 296 297 MODULE-08_MP201 - MP197 100% 100% 114 01-Jun-20 29-Sep-20 03-May-21 08-Mar-22 09 Feb 22 A MODULE 09 NIP 206 - MP 202 MODULE-09 MP206 - MP202 09-Dec-21 09-Feb 22 100% 100% 298 MAIN BRIDGE PIER CAP MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB18 100% 454 30-Apr-20 299 28Feb-23.STEELMODULE STEEL MODULE-01 MP176-MP171 249 08-Mar-21 27-Aug-21 17-Mar-22 100% O4Apr-22A, STEELMODULE-02, MP182-MP177 300 STEEL MODULE-02_MP182 - MP177 100% 148 30-Apr-20 04-Feb-21 23-Aug-21 04-Apr-22 100% ASMIN ZZA, P JESEL MYJLULE-UZ, MPRBP. MP177

100 100 104 No-222, STREEL MYCOULE-03, MP188

2 06 No-22, MAN BRIDGE PIER CAP, M

36 Mily-ZZA, MODULE-04, MP163 - MP163 - MP163

100 104 Sep-32, MODULE-02, MP163 - MP163 - MP163

100 104 Sep-32, MODULE-02, MP163 - MP163

100 104 Sep-32, MODULE-04, MP163 - MP163 301 STEEL MODULE-03 MP186 - MP183 24Feb-22 100% 37.5% 156 19-Dec-20 22-Apr-21 302 MAIN BRIDGE PIER CAP MARINE 10+380-11+880 FROM MB146 TO MB170 100% 303 MODULE-01_MP151-MP146 100% 121 14-Jan-20 01-Apr-20 304 MODULE-02_MP156 - MP152 53% 100% 115 05-Sep-19 23-Nov-19 17-Feb-22 305 MODULE-03 MP161 - MP157 100% 306 MODULE-04_MP166-MP162 100% 20% 68 15-Mar-19 24-May-19 21-Acr-22 CE-Novi22, MODULE-05_MP171+MP16 307 MODULE-05 MP171 - MP167 84: 15-Nov-19 18-Jan-20 100% 308 04.lun-22A, MAIN BRIDGE BEARING LAND 171-41 309 OSSECZIA MAINERDGE BEARING CHZ 15-860-17+414FRCIM MBZ 100% 310 MAIN BRIDGE BEARING CRZ 15+890-17+414 FROM MB226 TO MB250 100% 362 08-May-19 20-Feb-20 V 08-FB6-ZIA, MANIBRIDGE BEARNG INTERTIDAL 144-800-311 MAIN BRIDGE BEARING INTERTIDAL 14+800-15+890 FROM MB206 TO MB228 28 29-Jun-19 14-Sep-20 01-Oct-21 100% 08-Feb-22 MAIN BRIDGE BEARING MARINE 13+610-14+800 FROM MB167 TO MB205 312 100% 216 07-Apr-20 09-Feb-21 22-Feb-20 28Mar-23, MAIN BRIDGE 313 MAIN BRIDGE BEARING MARINE (STEEL) 11+880-13+610 FROM MB171 TO MB18 397 19-May-20 24-Sep-21 100% Date Revision Checked Approved Primary Baseline Critical Remaining Work CONTRACTOR: 25-Jun-22 R0 Milestone MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT Actual Work DAEWOO-TPL JV (MMRDA) Remaining Work % Complete

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION 6 of 9 ANNEXURE-5 CONSTRUCTION UPDATED (CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJNAGAR INTERCHANGE PROGRAMME ABSTRACT (PACKAGE-2) UNDER IDENTIFICATION NO MMRDA/ENG/000753 School Ja I BI Projec Actual Finis 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 314 MAIN BRIDGE BEARING MARINE 10+390-11+880 FROM MB146 TO MB170 315 RIDGE SUPER STRUCTURE BOX GIRDER INSTALLATION 316 DISSO 22.MAN BRIDGE PC GROER LAN 317 AIN BRIDGE PC GIRDER LAND 15+890-17+414 FROM MP261 TO MP266 100% DHS Assembly of Shupapat Parts in Laurching Genty 1 Assembly of Mechanical Parts in Laurching Genty 1 contay of Strictural Parts in Laurching Genty 2 318 CNLGA.100X Assembly of Structural Parts in Launching Gantry_1 17-Oct-19 12-Nov-20 100% 35 12-Sep-19 319 CNLGA 100: Assembly of Mechanical Parts in Launching Gartry_1 100% 100% 15 17-Oct-19 05-Feb-21 06-Mar-21 01-Nov-19 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 349 340 CNLGA.101(Assembly of Structural Parts in Launching Gartry_2 35 12-Sep-19 17-Oct-19 20-Jul-20 25-Dec-20 100% 100% nilly of Mechanical Plans in Lauriching Genhy; 2
23-War-22A, MODULE-22, MP266 - MP262
5-Way-22A, MODULE-21, MP266 - MP267
16, 6 rt-27A, MODULE-20, MP266 - MP266 CNLGA 1015 Assembly of Mechanical Parts in Launching Gantry 2 100% 15 17-Oct-19 01-Nov-19 28-Sep-20 30-Dec-20 100% 100% MODULE-22 MP266 - MP262 2GA42r-22 100% MODULE-21 MP261 - MP267 192 02-Dec-19 100% 100% 23-Jan-20 18-Seo-21 25-May-22 15-Uniz2A, MODULE-20, MP286 - MODULE F-20 MP256 - MP254 162 31-Dec-19 04-Feb-20 .06-Nov-21 100% 100% MODULE-19 MP254 - MP250 161 11-Jan-20 27-Feb-20 26-Nov-21 100% 87.5% MAIN BRIDGE PRECAST GIRDER CRZ 15+890-17+414 FROM MP226 TO MP26 219 04-Feb-20 25-Sep-20 30-Dep-20 100% 109: 04-Feb-20 100% 50% 28-Mar-20 20-Dec-21 MODULE-17 MP245 - MP241 74 (%-Mar-20) 27-Apr-20 30-Dec-20 16.May-2 100% 100% 03A4021A MODULE 16 MP240-MP237 MODULE-16 MP240 - MP23 21-May-20 13-Apr-21 03-Aug-21 100% 100% 22-Sep-21A, MODULE-15_MP238-MP232 MODULE-15 MP236 - MP232 31 27-Arr-20 19. hp-20 (16. h L-21 22-Sep-21 100% 100% TO NO. 21 A. MODULE-18. MP221 - MP222

11-Aur-22A, MODULE-18. MP225 - MP222

10-Deo-21A, MODULE-18. MP225 - MP222

14-Jan-22A, MODULE-18. MP217 MODULE-14 MP231 - MP227 42: 27-May-20 27-Aug-21 100% 100% MAIN BIDGE PRECAST GIRDER INTERTIDAL 14+800-15+890 FROM MP206 TO MP22 100% 100% MODULE-13 MP226 - MP222 39: 12-Sec-20 21-Oct-20 25-Oct-21 100% MODULE-12 MP221 - MP217 100% 100% 65 08-Oct-20 20-Nov-20 20-Nov-21 14 Jan 22 7- 27- 20 2A MODULE 11 MP 216- MP2 12 MODULE-11_MP216-MP212 19-Dec-20 27-Dec-21 27-Feb-22 100% 100% 17.46-22.A.M.D.DULE-10.MP211-MP207 MODULE-10 MP211 - MP207 84: 08-Dec-20 23-Jan-21 31-Jan-22 11-Apr-22 100% 100% MAIN BRIDGE PRECAST GIRDER_MARINE 13+610-14+800 FROM MP 187 TO MP 201 100% CNLGD.100 Dismanling of Laurching Gantry 1 20 18-May-21 10-km-21 100% 0% CNLGD.101(Dismarting of Launching Gartry_2 100% 0% 20 12-May-21 03-Jun-21 12-May-22A, MODULE-09_MP206-NIP202 MODULE-09 MP206 - MP202 100% 47 12-Jan-21 17-Feb-21 19-Mar-22 12-May-22 100% 12-No-22-MODULE 08-MP 201-MI MODULE-08_MP201 - MP197 100% 90% 19 Feb 23 MODULE 07 MP1 MODULE-07 MP196-MP192 100% 1842% 84 08-Mar-21 7-Apr-21 03-km-22 14-Mat-28 MODULE-06_M MODULE-06_MP191 - MP187 100% 0% MAIN BRIDGE PRECAST GIRDER MARINE 10+380-11+880 FROM MP146 TO MP170 100% 172 Ot-hrs-21 (D-Feb-22 CNLGA 102 Assembling of Laurching Gartry 1 100% 20 10-km-21 03-Sap-21 CNLGA 1030 Assembling of Launching Gentry 2 20 04-Jun-21 26-Jun-21 100% 0% MODULE-05_MP171 - MP167 02-Feb-22 100% 0% 52 28-Dec-21 White 24 Aug 23 Mil MODULE-04 MP166 - MP162 52 29-Nov-21 100% 03-Jan-22 MODULE-03_MP161 - MP157 52 30-Oct-21 04-Dec-21 100% 97-11 in-23 MODILE MODULE-02 MP156-MP152 100% 52 29-Sep-21 05-Nov-21 0% 351 52 28-Jun-21 06-Oct-21 MODULE-01 MP151 - MP146 100% 0% 352 OSOBSZZ MAN BRICISE STRICH JOHN 353 MAIN BRIDGE STITCH JOINT CASTING LAND 15+890-17+414 FROM MIP251 TO MIP26 263 07-Dec-19 Ur-SERIZZ, NARN BIRLICEE STRICH JOINT C

17-SERIZZ, NAODULE-19, MP284- MP286

V 13-JUNIZZA, MODULE-20, MP285- MP286

V 19-Miej-22-I, MODULE-32, MP286- MR282

Z5-Mir-32-A, MODULE-32, MP286- MR282

Z5-Mir-32-A, MODULE-31, JMP281- MP227

Z0-Sen-2-1A, MODULE-19, JMP236- MIP282 354 355 356 MODULE-19 MP254 - MP250 0% 106 10-Feb-20 16-Mar-20 29-Nov-21 0% MODULE-20_MP256-MP255 156 17-Jan-20 20-Feb-20 10-Nov-21 0% MODULE-21_MP261 - MP257 209 06-Jan-20 08-Fab-20 23-Sep-21 19-May-22 0% 357 358 MODULE-22_MP266 - MP262 175 07-Dec-19 10-Jan-20 08-Jul-21 25-Mar-22 0% 0% AIN BROIGE STITCH JOINT CASTING_CRZ 15+890-17+414 FROM MP28 TO MP28 205 11-Mar-20 13-Oct-20 0% 369 360 361 362 363 364 365 366 367 368 369 370 371 372 373 MODULE-14_MP231 - MP227 29 19-Sep-20 13-Oct-20 02-Sep-21 08-Nov-21 0% MODULE-15 MP236 - MP232 19 02-Jun-20 09-Jul-20 10-Jul-21 20-Sep-21 0% 31-Ju-21 A, MODULE-16 MP240-MP237

12-May-21 A, MODULE-17 MP245-MP241

12-May-21A, MODULE-17 MP245-MP241

12-May-21A, MODULE-18 MP246-MP245

12-May-21A, MODULE-18 MP246-MP245

12-May-21A, MANN BRIDGE STITCH JOINTICASTING INT MODULE-16_MP240-MP237 19 04-May-20 06-Jun-20 23-Apr-21 31-Jul-21 0% MODULE-17_MP245-MP241 41 09-Apr-20 0% 0% 14-May-20 12-Jan-21 12-May-21 MODULE-18 MP249 - MP246 142 11-Mar-20 14-Apr-20 29-Dec-21 0% 0% 155 14-Oct-20 UI-AGI-22A, MAN BRADGES (TICH JUNIT 07.Agr-22A, MOQULE:10, MP211 - MP207 10-Feb-21 MODULE-10 MP211 - MP207 03-Feb-22 07-Apr-22 0% 43 18-Jan-21 25F65-224, MQDDLE-11_MP216FMP212 12-Jan/22A, MODULE-12_MP221-JMP217 MODULE-11_MP216-MP212 112 14-Dec-20 05-Jan-21 0% 25-Feb-22 30-Dec-21 MODULE-12 MP221 - MP217 97: 14-Nov-20 0% 07-Dec-20 05-Dec 2 A MODULE-18 MP226 MP222 MODULE-13_MP226 - MP222 28 14-Oct-20 0% 06-Nov-20 27-Oct-21 08-Dec-21 MAIN BRIDGE STITCH JOINT CASTING MARINE 13+610-14+800 FROM MP187 TO MP. 138 11-Feb-21 21-Jun-21 0% 17-Apr 23 MODULE-06 MODULE-06 MP191 - MP187 36 04-Jun-21 21-Jun-21 0% D 29-Nov-22; MODULE-08_MR201 ;MF MODULE-07 MP196 - MP192 63 17-Apr-21 05-May-21 Wahre 22 0% 59 13-Mar-21 0% MODULE-08 MP201 - MP197 05-Apr-21 20-Apr-22 OHMar-22A, MODULE-d9_MP206-MP202 MODULE-09 MP206 - MP202 34: 11-Feb-21 06-Mar-21 21-Mar-22 (19-May-22 0% 03-061-23,i AIN BRIDGE STITCH JOINT CASTING, MARINE 10+380-11+880 FROM MP146 TO MP178 131 06-Oct-21 12-Feb-22 375 MODULE-01 MP151 - MP146 36 06-Oct-21 23-Oct-21 0% AMM. 19 TO 53 WOOD MODULE-02_MP156 - MP152 36 05-Nov-21 22-Nov-21 Revision Checked Approved Date Primary Baseline Critical Remaining Work **EMPLOYER: CONTRACTOR:** R0 25-Jun-22 MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT Actual Work Milestone DAEWOO-TPL JV (MMRDA)

ANNEXURE-5 CONSTRUCTION UPDATED 7 of 9 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 SHIVAJNAGAR INTERCHANGE PROGRAMME ABSTRACT (PACKAGE-2) UNDER IDENTIFICATION NO MMRDA/ENG/000753 Schedule 9 Comple 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 Q2 | Q3 | Q4 | Q1 377 MODULE-03 MP161 - MP157 1 09-Sep 23 M 378 MODULE-04 MP166-MP162 0% 36 (13-Jan-22 19-Jan-22 10-10 03-Oct-23 379 MODULE-05 MP171-MP16 380 381 382 STEEL MODULE-01 MP176 - MP171 (INSTALLATION 133 07-Dec-21 01-Mar-22 100% 29/Oct-22 STEEL MODULE 02 MP18 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 409 410 411 STEEL MODULE-02 MP182 - MP177 (INSTALLATION 104 03-Oct-20 30-Sep-21 100% 18-May-23, STEELMC STEEL MODULE-03 MP186 - MP183 (INSTALLATION 100% 0% 83 30-Sep-21 07-Dec-21 CELLANEOUS & FINISHING V WATER PROCENT PAVEMENT 451 16 Mar-20 EXPANSION JOINT 365 27-May-20 21-Apr-22 12-Oct 22 SUB STATION SUBSTATION 223 16-May-19 15-Act-21 OF JUNE 23, NOISE BA NOISE BARRIER FENDER INSTALLATION 80 24-14-21 DRANAGE WORKS SIGNEGARDS 60 12-Feb-22 23-Apr-22 INTERCHANGE SEMBORIA, INTERCHANGE FOUNDATION V 13-May-21A, INTERCHANGERAMP:PLE FOUNDATION
V 13-May-21A, INTERCHANGERAMP:PLE FOUNDATION 100% INTERCHANGE RAMP PILE FON MA 182 05-Aup-19 03-Jan-20 28-Jun-20A, MICHOLLE_23_MAA2-MAP4 MODULE 23 MAA2-MAP4 75 05-Aug-19 02-Nov-19 28-Jun-20 100% 100% 13-Jan-20 MODULE 24 MAP4-MP246 100% 100% 137 02-Nov-19 03-Jan-20 09-Oct-19 13-May-21 INTERCHANGE RAMP PILE FON A 100% MODULE 33 ACA2-ACP5 60 01-Oct-19 19-Dec-19 25-Oct-19 16-Aug-20 100% 100% MODULE 34 ACP5-MP256 100% 100% 05-Mar-20 25-Feb-20 INTERCHANGE RAMP PILE FON JM 100% MODULE_25_MP245-JMP4 100% 100% 178 22-Apr-19 05-Aug-19 23-Apr-21 17-Fe6-28A, MODULE, 26, UNIP4-3MP MODULE_26_JMP4-JMP8 100% 100% 89 19-Feb-19 20-Apr-19 01-Dec-20 17-Feb-21 7-Nov-20A, INTERCHANGE RAMP PILE PON IN. MODULE_Z7_JMP8-JMA2 23-Mar-21 07-May-21 100% 100% INTERCHANGE RAMP PILE FON MJ 100% 79 /3-Jen-19 27 Nov-20A MODULE 35 MUA2 MUF9 MODULE_35_MJA2-MJP9 100% 16-Sep-20 100% ▼ 25 Aug-20A, MODULE 36 MuPSMUP4 ▼ 20 Way-20A, MODULE 37 WuP4-WP252 MODULE_36_MJP9-MJP4 63 22-Mar-19 10-Jun-19 15-Jan-20 26-Aug-20 100% 100% MODULE_37_MJP4-MP252 100% 100% 01-Oct-19 20-Mar-20 412 413 27-Ad-21A, INTERCHANGE RAVIPPILE FDN_GA 27-Ad-21A, INCOULE_BE, MP249-OAP4 19-Met-21A, INCOULE_20_CAP41-XPP8 24-Feb-21A, INCOULE_20_CAP8-CAA2 INTERCHANGE RAMP PILE FON CA 100% 100 28-May-19 23-Jan-20 Df-Nov-19 MODULE_28_MP249-CAP4 100% 414 MODULE 29 CAP4-CAP8 100% 62 14-Aug-19 08-Nov-19 21-Nov-20 19-Mar-21 100% 415 MODULE_30_CAP8-CAA2 24-Feb-21 100% 100% 24-eb-21A, MICHOLE, 24, CARROLANZ

34-eb-21A, MICHOLE, 24, CARROLANZ

10-Sep:20A, MODULE, 31, MAAZ-AMPA

24-eb-21A, MODULE, 32, AMP4-MP259

26-May-21A, MTERCHANGE RAMP PILE CAP INSTALLATION

26-May-21A, INTERCHANGE RAMP PILE CAP INSTALLATION 416 INTERCHANGE RAMP PILE FON AM 100% 04-3an-21 417 MODULE_31_MAA2-AMP4 26-Mar-19 07-Feb-20 10-Sep-20 100% 418 MODULE 32 AMP4-MP259 237 27-Mar-19 27-May-19 06-Feb-20 04-Jan-21 100% 100% 419 420 INTERCHANGE RAMP PILE CAP_MA 24Jul29A MODULE 23JMAA2-MAP7 26May-21A MODULE 24 N 100% 421 MODULE_23_MAA2-MAP4 24-Feb-20 100% 7 26 Máy 21 A MODULE 24 MAPAMP 7 OT SIPIZOA INTERCHANGE RAMP PILE CAPLAC 422 MODULE 24 MAP4-MP246 100% 100% 86 24-Feb-20 15-May-20 22-Oct-19 26-May-21 423 INTERCHANGE RAMP PILE CAP A 100% 100% 07-Sib-2da, MODULE, 33_Ada2-ACP5 424 MODULE 33 ACA2-ACP5 132 15-Jan-20 24-Apr-20 18-Nov-19 07-Sep-20 100% 100% 425 MODULE_34_ACP5-MP256 09-Mar-20 100% 100% 22-Oct-20 02-Nov-19 25 May-21 A, MTERCHANCE BAMP PLE CAP JM
15 May-21 A, MICOULE 25 MP 245 JMP4
23 Feb 21 A, MICOULE 26 JMP4 JMP8
25 May-21 A, MODULE 27 JMP8 JMA2 426 INTERCHANGE RAMP PILE CAP JM 100% 136 18-Jan-19 06-Dec-19 11-Dec-19 25May-21 427 428 MODULE_25_MP245-JMP4 100% 100% MODULE 26 JMP4-JMP8 100% 92 21-Mar-19 17-lun-19 23-Dec-20 23-Feb-21 100% 429 MODULE_27_JMP8JMA2 100% 100% 40 18-Jan-19 20-Mar-19 02-Apr-21 25-May-21 Dec-20A, INTERCHANGE RAMP PILE CAR_MU: 430 19-Dec ZDA, INDICATE BS MARZAM PS 19-Dec ZDA, MODULE BS MARZAM PS 103-Sep ZDA, MODULE 36 MARSAM JP4 INTERCHANGE RAMP PILE CAP MJ 100% 100% 145 19-Jan-19 15-Jan-20 19-Dec-20 431 MODULE_35_MJA2-MJP9 100% 100% 29-Apr-19 432 MODULE 36 MJP9-MJP4 100% 100% O3-SEP-ZOTA, MODULE, 36, MJP-4MP-252 62 30-Apr-19 26-Oct-19 03-Mar-20 03-Sep-20 433 MODULE_37_MJP4-MP252 58 26-Oct-19 15-Jan-20 01-Jun-20 100% 100% OSMAYZIA, INTERCHANGERAMP PILE CAP CA DSMAYZIA, MODULE 28 MPZIBOCAPN 434 NTERCHANGE RAMP PILE CAP CA 100% 158 15-Oct-19 27-Jun-20 02-Dec-19 05-May-21 100% 435 MODULE_28_MP249-CAP4 100% 100% 27-Jun-20 20MG-21A, MODULE 29 CAPACAP8

D2MG-21A, MODULE 30 CAP8CAA2 436 MODULE 29 CAP4-CAP8 100% 100% 70 16-Dec-19 05-Mar-20 30-Nov-20 30-Mar-21 437 MODULE_30_CAP8-CAA2 100% 100% 53 15-Oct-19 16-Dec-19 19-Jan-21 02-Mar-2 13 Jan 21A INTERCHANGE RAMP PLE CAP AN 438 INTERCHANGE RAMP PILE CAP 100% 245 08-Jan-19 15-Oct-19 15-Feb-20 13-Jan-21 21-Sep-2DA, MICHOULE 31 MAA2-AMF4 439 MODULE_31_MAA2-AMP4 176 08-Jan-19 09-May-19 15-Feb-20 100% 100% Date Revision Checked Approved Primary Baseline Critical Remaining Work CONTRACTOR: 25-Jun-22 R0 MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT Milestone Actual Work DAEWOO-TPL JV

(MMRDA)

Remaining Work % Complete

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION 8 of 9 ANNEXURE-5 CONSTRUCTION UPDATED (CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJNAGAR INTERCHANGE PROGRAMME_ABSTRACT (PACKAGE-2) UNDER IDENTIFICATION NO MMRDA/ENG/000753 Actual Start Schedule 9 **BLP**rojec Actual Finis 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 100% 440 MODULE 32 AMP4-MP259 89 10-May-19 15-Oct-19 07-Mar-20 フィック は Sep 21 A INTERCHANGE RAMP PER INSTALLA

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18-Sep-21A, MCDULE 34, ACAZACPS

▼ 27-Sep-21A, MCDULE 34, ACAZACPS

18-Dec-21A, NCDULE 34, ACPS-MP2SS

25-jun-22, NTERCHANGE RAM 445 446 447 448 449 450 451 452 453 454 455 456 457 458 460 461 462 463 464 465 466 MODULE_24_MAP4-MP246 100% 100% 150 10-Aug-20 29-Dec-20 18-Sep-2 24-Dec-19 INTERCHANGE RAMP PER AC 100% MODULE_33_ACA2-ACP5 27-Sep-2 100% 96 16-May-20 30-Nov-20 19-May-20 100% MODULE 34 ACP5-MP256 249 30-Nov-20 17-Jun-20 18-Dec-21 100% 100% 25 jun 2 interchanise baine fier in 25-Jun-22 MODULE 28 MIPAUMP8

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35-Jun-22 MODULE 28 MPAUMP8

20-Jun-22 MODULE 27 MP8-JMA2

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29-Jul-21 MODULE 36 MIARAMP9 138 08-Feb-19 100% 95.59% MODULE 25 MP245-JMP4 122 22-Oct-19 18-Mar-20 15-Jan-20 100% 90% MODULE_26_JMP4-JMP8 100 09-May-19 22-Oct-19 100% 100% 01-Feb-21 13-Jun-22 MODULE_27_JMP8-JMA2 63 08-Feb-19 08-May-19 12-Apr-21 05-Jan-22 100% 100% 100% MODULE 35 MJA2-MJP9 134 08-Feb-19 26-Jul-19 02-Nov-20 100% 100% 22-Od-21/4, MODULE 36, MJF9-MJP4 MODULE_36_MJP9-MJP4 145 27-Jul-19 18-Jan-20 07-Seo-20 22-Oct-21 100% 100% 20160-21 A, INGOENE 37 MAPARIPEZZ MODULE 37 MJP4-MP252 100 18-Jan-20 16-May-20 02-Feb-21 20-Nov-21 100% 100% DZ:MBy:ZZA,IMITERCHANGE RAMP PER CA
DZ:MBy:ZZA,IMODULE_28_MP:249-CAP4 100% DZIMBYZZA MODULE 28 MPZBE 88Feb 22A MODULE 29 GAP4CAP8 MODULE_28_MP249-CAP4 159 10-Sep-20 16-Feb-21 27-Anr-20 02-May-22 100% 100% 10-Sep-20 MODULE 29 CAP4-CAP8 91 06-Apr-20 19-Dec-20 28-Feb-22 100% 27 Jeh 224, MODULE 30, CAPS CAA2 MODULE 30 CAPS-CAA2 100% 54 08-Jan-20 06-Apr-20 19-Jan-21 27-Jan-22 100% SULL DINTERCHANCE ROMPHER LAW NTERCHANGE RAMP PIER A 25 Jun 22 MODULE 31 MAY 2 MP4 MODULE 31 MAA2-AMP4 29Juh 22 MODULE 32 AMP4NIP259 177 29 Jan-19 27-Aug-19 14-Mar-21 100% 81.3% MODULE_32_AMP4-MP259 187 27-Aug-19 100% 18-Jar-22A NTERCHANGE BEARING NSTA 🚧 OF AP 22A INTERCHANGE RAMP BEARING AC INTERCHANGE RAMP BEARING AC 26 24-1-20 31-May-21 67-Arx-7 17-Aut-22 INTERCHANGE RAMP BEARIN 467 468 INTERCHANGE RAMP BEARING_JM 17-Aug-22, INTERCHANGE RAMP BEARING 17-Aug-22 INTERCHANGE RAMP BEARING
20-Aug-22 INTERCHANGE RAMP BEARING INTERCHANGE RAMP BEARING MJ 47 11-Mar-19 30-Jun-20 469 INTERCHANGE RAMP BEARING CA 470 20-Aug-22, INTERCHANGE RAMP BEARING INTERCHANGE RAMP BEARING AM 10-Feb-20 30 27-Feb-19 471 22 Agi-22/, INTERCHANGE BOX GROER INSTALLAT V :08MB 224, INTERCHANGE BOX GROER INSTALLAT V :08MB 224, INTERCHANGE BOX GROER INSTALLAT V :09MB 224, INTERCHANGE BOX GROER INSTALLAT 472 473 MODULE 23 MAA2-MAPS-MAPS-MAP 474 STAGGING & BOTTOM SLAB 100% 35 09-Jan-21 04-Mar-21 18-Sep-21 31-Dec-21 100% 475 09 Flab ZIA SIDE WALLS & TOP SLAB SIDE WALLS & TOP SLAB 57 05-Mar-21 26-Apr-21 09-Feb-22 100% OF DEMANZIA STRESSING & DESTA GGING 476 STRESSING & DESTAGGING 100% 22 Agi-224, NIODULE 24, MAPAMAPISAMAP 28-Ma-224, STAGGING & BOTTOM SLAB 40 27-Apr-21 21-Jun-21 15-Feb-22 08-Mar-22 100% 477 MODULE 24 MAP4-MAP3-MAP2-MAP1-MP24 100% 478 STAGGING & BOTTOM SLAB 100% 28 21-Jun-21 20-Sep-21 01-Oct-21 28-Mar-22 100% OF AD-122A, SIDE WALLS & TOP SLAB 479 SIDE WALLS & TOP SLAB 100% 100% 06-Apr-22 22 Apr-22A, STRESSING & DESTAGGING 480 STRESSING & DESTAGGING 100% 100% 61 18-Nov-21 03-Jan-22 12-Mar-22 22-Apr-22 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 496 497 498 14Apr 22A MODULE: 38 ACA2 ACP8 ACP? ACP6 AC 100% 21-Ma-22A, STAGGING & BIOTTOM SLAB: STAGGING & BOTTOM SLAB 73 27-Feb-21 16-Apr-21 21-Mar-22 100% 100% 01-Nov-21 SIDE WALLS & TOP SLAB 57 17-Apr-21 100% 30-Mar-22 100% 15-Jun-21 23-Feb-22 ₩ 10 Apr 22A STRESSING & DESTAGGING STRESSING & DESTAGGING 08-Sep-21 31-Mar-22 10-Apr-22 100% 100% MODULE_3/LACPS-ACP4-ACP3-ACP2-ACP1-MP29 100% STAGGING & BOTTOM SLAB 36 31-May-21 03-Sep-21 100% SIDE WALLS & TOP SLAB 100% 45 03-Sep-21 10-Nov-2 STRESSING & DESTAGGING 40 10 Nov. 21 27-Dec-21 100% ZOHOP TIJIFZAMODULE VOSAD-PAJSTAGGING B. BI SOMAP-ZASIDE VIAL MOCKEE 25 MP245 MP1 MP2 MP3 MP4 OBFeb-2 100% STAGGING & BOTTOM SLAB 100% 45 19-Aug-20 30-Oct-20 SIDE WALLS & TOP SLAB 45 31-Oct-20 23-Dec-20 100% 11-Ju-23 STRES STRESSING & DESTAGGING 40 24-Dec-20 09-Feb-21 100% MODULE 26 JMP4-JMP5-JMP6-JMP7-JMP8 125 29-Sep-20 26-Feb-21 100% 14 Aug-25, \$1A STAGGING & BOTTOM SLAB 100% 41 29-Sep-20 19-Nov-20 05-Oct-23 SIDE WALLS & TOP SLAR 45 20-Nov-20 11-Jan-21 100% STRESSING & DESTAGGING 100% 39 12-Jan-21 26-Feb-21 7 27 Jun 23 MODULE MODULE 27 JMP8-JMP9-JMP10-JMA 125 11-Mar-20 100% 21-Mar-23 STAGGING & B STAGGING & BOTTOM SLAB 41 11-Mar-20 100% 28-Apr-20 501 12-May-22 SIDE WALL SIDE WALLS & TOP SLAB 45, 28-Apr-20 04-Jul-20 100% 77-Jun-23, STRESS STRESSING & DESTAGGING 29-Sep-20 39 04-Jul-20 100% Revision Checked Date Approved Primary Baseline Critical Remaining Work **EMPLOYER: CONTRACTOR:** R0 25-Jun-22 MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT Actual Work Milestone DAEWOO-TPL JV (MMRDA)

MUMBAI TRANS HARBOUR LINK PROJECT (PACKAGE 2) CONSTRUCTION OF 7.807KM LONG BRIDGE SECTION 9 of 9 ANNEXURE-5 CONSTRUCTION UPDATED (CH 10 380 - CH 18 187) ACCROSS THE MUMBAI BAY INCL SHIVAJNAGAR INTERCHANGE PROGRAMME ABSTRACT (PACKAGE-2) UNDER IDENTIFICATION NO MMRDA/ENG/000753 Activity Name Original BLProject Duration Start Schedule % Complete Complete Finish TI-Junizza MODULE 35 MA MUETUM PILAMETIM 11-Junizza MODULE 35 MA MUETUM PILAMETIM 21-Majr 22A STAGGING & BOTTOM SLAB WWW SOMBYZZA SIDEWALLS & TOWSLAB 504 MODULE 35 MJA2MJP12-MJP11-MJP10-MJP5 100% 505 506 STAGGING & BOTTOM SLAB 100% 100% 50 20-Sep-19 25-Nov-19 17-Mar-22 21-May-22 SIDE WALLS & TOP SLAR 16-Apr-22 30-May-22 100% 100% TI-JINZZA,STRESSNG&DESTAGGNG 507 STRESSING & DESTAGGING 100% 100% 30-May-22 11-Jun-22 45 22-Jan-20 16-Mar-20 508 509 510 511 DIOLE MODULE 36 MJP9MJP8N MODULE 36 MJPSMJPSMJP7MJP6MJP5MJP4 100% 25 Jun 22 STAGGING & BOTTOM SLAB STAGGING & BOTTOM SLAB 70% 100% 50 16-Mar-20 14-May-20 28-Mar-22 25 JUNE 22 SIDE WALLS & TOP SLAB SIDE WALLS & TOP SLAR 50 14-May-20 27-Apr-22 100% 70% priotizizistregsing a destrictions
of Fadizi Module 37 Mipai
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5545 STAGGING & BOTTOM SLAB 41 08-Sep-21 08-Nov-21 100% SIDE WALLS & TOP SLAB 100% 45 08-Nov-21 30-Dec-21 STRESSING & DESTAGGING 39 30 Dec 21 15.Feb.22 100% 0% MODULE 28 CAP4 CAP5 CAP5 CAP7 CAP1 100% 26-Aug-23, MC 06-Maj-28, STAGGING 05-NI-23, SIDEWA STAGGING & BOTTOM SLAB 50 09-Apr-21 11-Jun-21 100% 0% SIDE WALLS & TOP SLAB 50 11-Jun-21 28-Sep-2 100% STRESSING & DESTAGGING 0% 45 28-Sep-21 23.Nnu-21 100% 10-Mar 23 MODULE 30 CA MODULE 30 CAPS CAPS CAP 10 CAA 28 Nov-22 STAGGING & BOTTOM'S STAGGING & BOTTOM SLAB 47 30-Oct-20 24-Dec-20 100% 0% 23 Jan 23 SIDE WALLS & TOP SIDE WALLS & TOP SLAB 48 25-Dec-20 19-Feb-21 100% 10 Mar 23, STRESSING & D STRESSING & DESTAGGING 40 20-Feb-21 08-Apr-21 100% 0% 09-Flab 23, INTERCHANGE BO O1.F4623,MODULE_31_ANA2. MODULE 31 AMAZ-AMPS-AMPS-AMPS-AMPS-A 125 14-Oct-19 11-Mer-20 100% STAGGING & BOTTOM SLAB 100% 41 14-Oct-19 17-000-22 \$10EWALLS&TOPS(A SIDE WALLS & TOP SLAB 0% 45 03-Dec-19 24-Jan-20 100% STRESSING & DESTAGGING 11-Mar-20 100% 0% OPHALIZA MODULE 32 AMPA OFMAN 22 STAGGING & BOTTOMISIA MODULE 32 AMP4AMP3-AMP2-AMP1-MP259 130 10 Feb-20 100% STAGGING & BOTTOM SLAB 100% 45 10-Feb-20 03-Apr-20 24 Dec-22 SIDE WALLS & TOP SLA V OP FEB 23 STRESSING & DES SIDE WALLS & TOP SLAB 45 03-Apr-20 27-May-20 100% STRESSING & DESTAGGING 100% 40 27-May-20 19-Aug-20 25Mir-22A, Interpolaçõe Retalminas trauciture "Y 1244 922 NTERCHANGE RETAINING STRUC "Y 1546 922 NTERCHANGE RETAINING STRUC 76 t1-May-19 08-May-19 24-Feb-22 103 DSMIav-19 11-Jul-19 28:04-22 INTERCHANGE RETAINING 38 05-Fvb-20 24-Mar-20 15-Jan-22 28/08-22, INTERCHANGE RETAINING INTERCHANGE RETAINING STRUCTURE AN 41 12-34-19 24-Oct-19 380 19-Aug-20 21-Feb-22 WATER PROCEING 380 10-Sep-20 08-Mar-22 1 : : : : : : : : : : : : : : : **DRANAGE WORKS** 380 28-Aug-20 26-Feb-22 100% 550 551 CHECKLIST 65 24-May-22 22-Sep-22 29.47% 552 DEFECT LIABILITY PERIOD (DLP) 553 PRICE SCHEDULE 554 SCHEDULE-1 2585: 23-Mar-18 21-Mar-23 23-Mar-18 94 15% 90 199 555 **SCHEDULE-2** 94.56% 566 SCHEDULE-3 1644 23-Mar-18 22-Sen-22 23-Mar-18 94.56% 89% 557 SCHEDULE-12 94,56% 22-Sep-22 558 SCHEDULE-13 94 56% 1644 23.Mar-18 22-Sep-22 23Mar-18 MTHL-PKG2-RAMBOLL DESIGN PROGRAMME 25062022 APPROVED MPR.5' Date Revision Checked Approved Primary Baseline Critical Remaining Work CONTRACTOR: summan 25-Jun-22 R0 **Actual Work** Milestone MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORIT DAEWOO-TPL JV (MMRDA) Remaining Work % Complete

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Attachment 8- Package-3's Construction Programme Updated as of 25th June 2022



<u></u>	MTHL 3- Revised Construction Schedule		121 4 24 4	1-11-11		1	Classic Sche				· - · · · · · · · · · · · · · · · · · ·			1868		11-Jul-22
ID	Activity Name	Duration	BL1 Start	BL1 Finish	Start	Finish	Activity % Complete	%	Performance %	Budgeted Total Cost	Earned Value Cost	Schedule erformance Index	JFMAV	2022 JJASON	DJFVAM	023 JJASQN
ИΤ	HL Pkg 3_Revised Construction Schedule Jun'22	1551	23-Mar-18	03-Mar-23	23-Mar-18A	13-Oct-23	-	Complete i 91.6%	Complete 90.35%	Rs10,107,290,846	Rs7 242,778 275	0.99				- V
P	rocurement of Mumbai Trans Harbour Link Project	1551	23-Mar-18	03-Mar-23	23-Mar-18A	13-Oct-23		91.6%	90.35%	Rs10,107,290,846	Rs7.242,778.275	0.99		 		 1
	t Commencement Date (CD)	0	23-Mar-18		23-Mar-18A		100%	100%	100%	Rs0	Rs0	0.00		Commono	ement Date (CD)	22 Mar 19
	Milestones (As level of effort)		15-Apr-21	03-Mar-23	23-Mar-18A	13-Oct-23	10070	0%	0%	Rs0	Rs0	0.00	77 7 7 7	1	ement Date (CD)	
National States	Financial Milestone		25-Aug-19	03-Mar-23	23-Mar-18A	13-Oct-23		0%	0%	Rs0	Rs0	0.00				1
	Interface Milestone		25-Jan-21	16-Aug-22	17-Sep-18A	28-Mar-23		0%	0%	Rs0	Rs0	0.00			28 M	lar 23, Intelfa
<u> </u>	Delay Events		19-Apr-18	31-Mar-21	19-Apr-18A	25-Jun-22	*****	0%	0%	Rs0	Rs0	0.00	1:::::	25-Jun-22	Delay Events	
H	Document Submittals		25-Dec-18				·····				nanananananananananananananananananana					
-	The second secon			07-Feb-19	06-Apr-18A	30-Sep-19A		100%	100%	Rs74,992,895	Rs74,992,895	1.00	11111	95' hip 92	Employer's Obli	defield () obs
	Employer's Obligation / Land Handover		23-Mar-18	05-Jul-21	23-Mar-18A	25-Jun-22		0%	0%	Rs0	Rs0	0.00			Sep-22, Employ	
The same of the same of	Employer Office (Sch 01- General Item)		25-May-19	01-Apr-22	25-Jan-19A	30-Sep-22		100%	97.92%	Rs142,351,965	Rs139,395,965	0.98	44444			a Ollice (Sc
V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Survey & Geotechnical Investigation Works		19-Арг-18	12-Jul-19	19-Apr-18A	30-Sep-19A		100%	100%	Rs242,300,773	Rs242,300,773	1.00	11111	LUUU		
-	Design Works		15-Jan-19	30-Nov-21	25-Apr-18A	30-Jun-22		100%	100%	Rs159,122,500	Rs159,122,500	1.00		30-Jun-22	Design Warks	
WZ STATE	Procurement Works	1120	02-May-19	13-Sep-22	15-Feb-19A	25-Apr-23		96.36%	94.54%	Rs1,387,160,467	Rs1,433,359,943	0.98	11111			Арг-23 Рю
١	Co-ordinated Fabrication & Manufracturing Works	8 83	03-Jun-19	10-Feb-22	21-Feb-19A	07-Aug-22		100%	83.19%	Rs390,605,953	Rs239,159,344	0.83		07-Aug	22, Co-ordinated	Fabrication
1	Construction Works	1343	25-Dec-18	22-Feb-23	26-Sep-18A	11-Oct-23		88.95%	88.56%	Rs7,032,855,269	Rs4,954,446,854	1.00		1.5.5.1.1	611111	1 19
	Preconstruction Activity	1031	25-Dec-18	10-May-22	26-Sep-18A	06-Oct-22		0%	0%	Rs0	Rs0	0.00		100	Oct-24, Precons	incieu voin
	Sub Structures (Open Foundation, Pier ,Pier Cap)	968	12-Apr-19	01-Aug-22	14-Nov-18A	06-Oct-22		99.9%	98.47%	Rs3,362,196,772	Rs3,044,589,344			06-	Oct 22, Sub Stru	ctures (Ope
	Main Carriageway	968	12-Apr-19	16-Apr-22	14-Nov-18A	21-Sep-22		100%	98.13%	Rs1,978,291,498	Rs1 669 615 333	0.98		V. 41-5	ep-22, Main Car	nageway
	SH 54 Ramps		07-Aug-20	15-Mar-22	25-Apr-19A	30-Dec-21A		100%	100%	Rs225,759,949	Rs232 139 423	1.00	30-Dec-21/	SH54 Ramp		
П	Chirle NH 4B Ramps		30-Dec-20	01-Aug-22	03-May-19A	06-Oct-22		99.6%	97.95%	Rs747.437.115	Rs732.126.378	0.98	11-1-1-1		Oct 22, Chirle Ni	4B Ramps
L	Chirle NH 4B Loops		31-Mar-21	08-Mar-22	21-Aug-19A	12-Jan-22A		100%	100%	Rs410.708.210	Rs410.708.210	1.00		A, Chirle NH 41	Loops	411.1.
1	Super Structures		25-Mar-21	23-Jan-23	11-Sep-19A	24-Jul-23		75.83%	58.81%	Rs1,408,927,166	Rs270.076.840	0.78	Li haista	22 A Sama	in brianchai	₹ 24-Jul-2
	Segments Precasting Segments Erection		25-Mar-21	21-Sep-22	11-Sep-19A	03-Mar-22A		0%	0%	Rs760.156.098	Rs0	0.00	p ps-ivia	-22A, Segrile	nts Precasting 24 Feb	22 Soamon
	Cast In Situ		25-Mar-21	14-Dec-22	03-Mar-20A	24-Feb-23		0%	67.05%	Rs70.699.416	Rs0	0.00	28 18 18 18 18	P 15 15 15 15 15 15	4 244 CD2	inita 23 Capt
H	Steel Structure		31-Mar-21 10-Mar-22	23-Jan-23 07-Jan-23	25-Sep-20A 01-Mar-22A	19-Apr-23 24-Jul-23		7722%	67.25% 20.96%	Rs464 334 350	Rs252 532 419	0.87			▼ 19-7	24 Jul 2
۳	Bearings Installation		15-Oct-21	09-Nov-22	04-Nov-20 A	01-Feb-23	-	69.6% 72.73%	27.27%	Rs113.737.302 Rs10.454.695	Rs17.544.422 Rs1.844.947	0.30			01-Feb-23	
	Precast Spans		08-Jan-22	09-Nov-22	04-Nov-20A	11-Nov-22		50%	50%	Rs7.379.784	Rs1.844.947	0.38			1-Nov-22, Preca 01-Feb-23	siSpans
	Steel Spans		15-Oct-21	04-Apr-22	01-Aug-22	01-Feb-23		100%	0%	Rs3.074.911	Rs0	0.00			01-Feb-23	Steel Spar
F	Bridge Ancillaries & Miscellaneous Item		03-Dec-21	11-Feb-23	17-May-22A	10-Oct-23		14.9%	0%	Rs78.136.643	Rs0	0.00				
	Expansion Joints		12-Dec-22	11-Feb-23	25-Jun-22	16-Sep-23		0%	0%	Rs0	Rs0	0.00	hiiin			1 R.
	Crash Barrier & Safety fence	318 ()3-Dec-21	03-Feb-23	10-Jun-22A	05-Sep-23		30.84%	0%	Rs38.328.588	Rs0	0.00	 			05.5
	Painting works		23-May-22		17-May-22 A	10-Oct-23		0%	0%	Rs39.808.055	Rs0		₩.			1 1 1
	RE Wall	148 1	1-Jun-22	18-Jan-23	01-Dec-21A	30-Jun-23		1.87%	37.3%	Rs450.167.295	Rs161.428.483	19.96				30-Jun-23
	Raft	80 1	1-Jun-22	15-Oct-22	01-Dec-21A	30-Jun-23		14.91%	53.33%	Rs71,575,695	Rs28.921.423	3.58			7 7 7 7 7 V	30:Jun-23
	RE wall with backifill	108 2	6-Aug-22		03-Jan-22 A	03-Apr-23		0%	35%	Rs378.591.600	Rs132,507,060	0.00			U3-Ap	r-23, RE wa
	At Grade work		7-Ocl-19			01-Apr-23		100%	97.5%	Rs1.514.366.401	Rs1.476.507.241	0.98			01-Ap	r-23,AtGra
	Area for toll plaza		1-Mar-21			28-Oct-20A		0%	0%	Rs0	Rs0	0.00				
	Earth work / Cut & Fill		7-Oct-19	02-Mar-22		01-Jul-22		100%	97.5%	Rs1,514,366,401		0.98		C 10 10 10 10 10 10 10 10 10 10 10 10 10	arth work/Cut&	
	Subgrade & Granular Sub Base		0-Oct-21	13-Sep-22		16-Dec-22		0%	0%	Rs0	Rs0	0.00	l hand		16-Dec-22, Suit	grade & Gr
	WMM & DBM		6-Feb-22		02-Nov-22	01-Apr-23		0%	0%	Rs0	Rs0	0.00		HHIYT	01-Ap	-23, V/MM
	Water Proofing		0-Jan-23		06-May-23	16-Sep-23		0%	0%	Rs6 259 406	Rs0	0.00				16-8
	Asphalt Pavement, Kerb , traffic sign		8-Jan-23	21-Feb-23		19-Sep-23		0%	0%	Rs154.449.156	Rs0	0.00			o es si si tisaso	1 1 10
	Compound wall with safety fence		1-Jun-22	22-Feb-23		11-Oct-23		0%	0%	Rs47.897.735	Rs0	0.00			10 10 10 10 10 10 10 10 10 10 10 10 10 1	11-
- annum	completion of Interface Activity	WHEN THE PERSON CONTRACTION AND THE	1-Mar-21		· · · · · · · · · · · · · · · · · · ·	28-Mar-23		0%	0%	Rs677,901,024	Rs0	0.00			28 Mai	23, Comple
	esting & Commissioning Works	104 0	7-Jan-23	02-Mar-23	13-May-23	12-Oct-23		0%	0%	Rs0	Rs0	0.00				12.

Baseline Schedule

Attachment 9- Project Progress Photos for June 2022



Package 1- Site Progress Photos



Photo No. 1: LG- 3 Span Erection at Marine Location looking towards Navi Mumbai



Photo No. 2: OSD 2 Span Erection looking towards Navi Mumbai



Photo No. 3: MP 72 Pier Head Shutter Checking in progress



Photo No. 4: MP 71 OSD -2 Span towards Navi Mumbai



Photo No. 5: OSD-1 Span Erection in Progress



Photo No. 6: Ch. 1270 to 1290 Crash barrier Concrete Casting





Photo No. 7: EP 15 Segments shifting for Erection in progress



Photo No.8: AP 16 Pier Reinforcement in progress





Photo No. 9: EP 15-16 Span Erection using Under Slung in progress



Photo No. 10: LG 1 Pier Head Lifting in progress



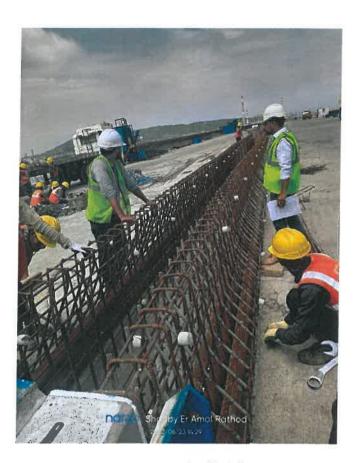


Photo No. 11: Median Crash Barrier Reinforcement in progress



Photo No. 12: LG-06 AP 08-09 Span Erection in progress



Package 2 - Site Progress Photos



Photo No. 1: LG-3 Wet joint formwork fixing at Span MP 253-255 RHS in progress



Photo No. 2: Pier cap concrete at MP 173ARHS in progress



Photo No. 3: Integral pier head segment scaffolding at MP 188 RHS and LHS in progress



Photo No. 4: Pier reinforcement tying at MP 184 RHS in progress





Photo No. 5: Pier final lift concreting at MP 184 RHS in progress



Photo No. 6: Pier cap concreting at MP 175 RHS in progress





Photo No. 7: Cast in situ slab concreting at Interchange Area in progress



Photo No. 8: Retaining wall backfilling works at ramp Area in progress



Photo No. 9: Segment concrete at Bay-1 in progress



Photo No. 10: Cast in situ slab works at Interchange Area in progress



1st April to 30th June 2022



Photo No. 11: OSD works at Karanja Port in progress



Photo No. 12: Retaining wall formwork fixing at Ramp CA in progress



Package 3 - Site Progress Photos



Photo No. 1: Gavan Span RMP 275-276 ROB structural steel Girder erection completed



Photo No. 2: Chirle span RP33-34 Deck slab concrete casting completed

PAL CONS



Photo No. 3: Chirle interchange ramp MJP1-2 voided slab concrete casting completed



Photo No. 4: Jasai span JMP 04-05 reinforcement and profile work





Photo No. 5: Pier LMP 273 Bearing Installation survey Inspection work



Photo No. 6: Jasai span LA01-LP01 deck slab concrete pouring work

TRANS HAROOUS LINE



Photo No. 7: Gavan Span RMP 272-273, Soffit concrete casting completed



Photo No. 8: Chirle RP-35 Bearing installation survey work



Photo No. 9: Chirle span LP32-33 segment erection work



Photo No. 10: Gavan CIS span RMP 271-272 prestressing work





Photo No. 11: Jasai LP-20, Pier 3rd lift concrete work



Photo No. 12: Chirle MJP Loop 2nd layer Geogrid work at CH 0+370 - CH 0+400