



DAEWOO-TPL JV

CONTRACT AGREEMENT

between

MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY

and

**DAEWOO - TPL JOINT VENTURE
(M/s DAEWOO ENGINEERING & CONSTRUCTION Co. Ltd. &
M/s TATA PROJECTS Ltd.)**

MUMBAI TRANS HARBOUR LINK PROJECT (MTHL)

PACKAGE-2

**Procurement of Mumbai Trans Harbour Link Project (Package 2)
Construction of 7.807 km Long Bridge Section (CH 10+380 – CH
18+187) Across the Mumbai Bay Including Shivaji Nagar
Interchange**

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

MADE ON 19TH JANUARY 2018

VOLUME - XXV of XXVI

PAGES 8937 TO 9060

Package-2 DAEWOO – TPL Joint Venture

Index

Volume No.	Contents	Page No.
Volume-I	The Contract Agreement (CA)	0001 - 0168
	Performance Security	
	Power of Attorney	
	The Letter of Acceptance (LOA)	
	Letters of Clarifications (LoC)	
	The Letters of Bid (Technical & Financial)	
Volume-II	The Addenda including Attachments (Numbers 1 to 5)	0169 - 0452
Volume-III	Geotechnical Investigation Report R1 (Addendum 1 – Attachment 12)	0453 - 1474
Volume-IV	The Particular Conditions	1475 – 1768
	The General Conditions	
	The Employer's Requirements	
Volume-V	Tender Drawings	1769 - 2038
Volume-VI	Geotechnical Investigation Report (Bid Document)	2039 - 2496
Volume-VII	The Completed/Corrected Schedules	2497 - 2522
Volume-VIII	The Contractor's Proposal Volume-1	2523 - 2895
Volume-IX	The Contractor's Proposal Volume-2	2896 - 3319
Volume-X	The Contractor's Proposal Volume-3	3320 - 3657
Volume-XI	The Contractor's Proposal Volume-4	3658 - 4037
Volume-XII	The Contractor's Proposal Volume-5	4038 – 4313
Volume-XIII	The Contractor's Proposal Volume-6	4314 – 4765
Volume-XIV	The Contractor's Proposal Volume-7	4766 – 5121
Volume-XV	The Contractor's Proposal Volume-8	5122 – 5309
Volume-XVI	The Contractor's Proposal Volume-9	5310 – 5609
Volume-XVII	The Contractor's Proposal Volume-10	5610 – 5971
Volume-XVIII	The Contractor's Proposal Volume-11	5972 - 6215
Volume-XIX	The Contractor's Proposal Volume-12	6216 - 6651
Volume-XX	The Contractor's Proposal Volume-13	6652 – 6936
Volume-XXI	The Contractor's Proposal Volume-14	6937 – 7291
Volume-XXII	The Contractor's Proposal Volume-15	7292 – 7808
Volume- XXIII	The Contractor's Proposal Volume-16	7809 – 8276
Volume- XXIV	The Contractor's Proposal Volume-17	8277 – 8936
Volume- XXV	The Contractor's Proposal Price Bid	8937 – 9060
Volume- XXVI	The Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans and any other documents forming part of the Contract	9061 – 9070

ORIGINAL
FINANCIAL BID [ENVELOPE-C]

Tender Submission for Mumbai Trans Harbour Link Project (Package-2) (Construction of a 7.807 km long bridge section (CH 10+380 – CH18+187) across the Mumbai Bay including Shivaji Nagar Interchange)

IFB No.: MMRDA/ENG1/000753



DAEWOO-TPL JV

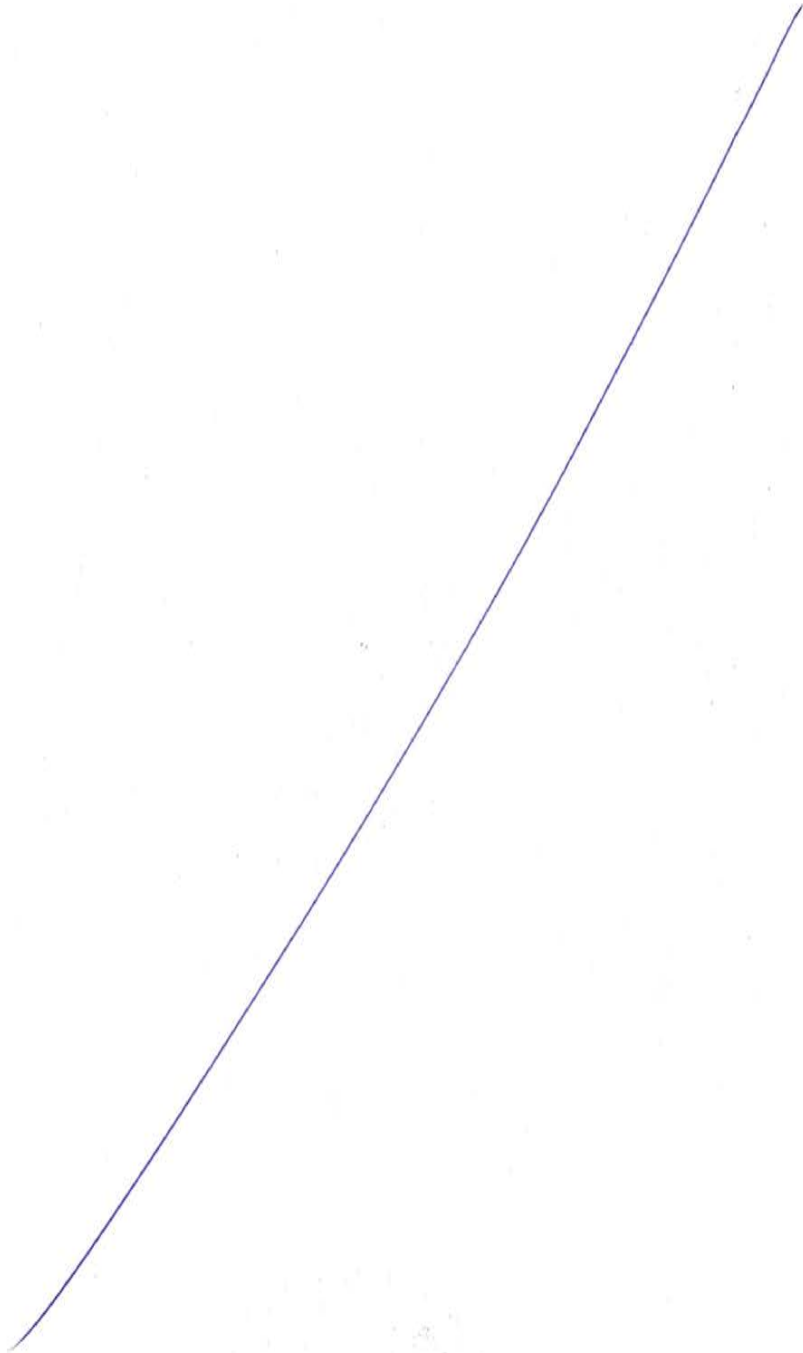
11th Floor, Hiranandani Knowledge Park, Powai, Mumbai.



**Mumbai Metropolitan
Region Development
Authority**

**Project: Mumbai Trans Harbour Link Project (Package-2)
(Construction of a 7.807 km long bridge section (CH 10+380 –
CH18+187) across the Mumbai Bay including Shivaji Nagar
Interchange)**

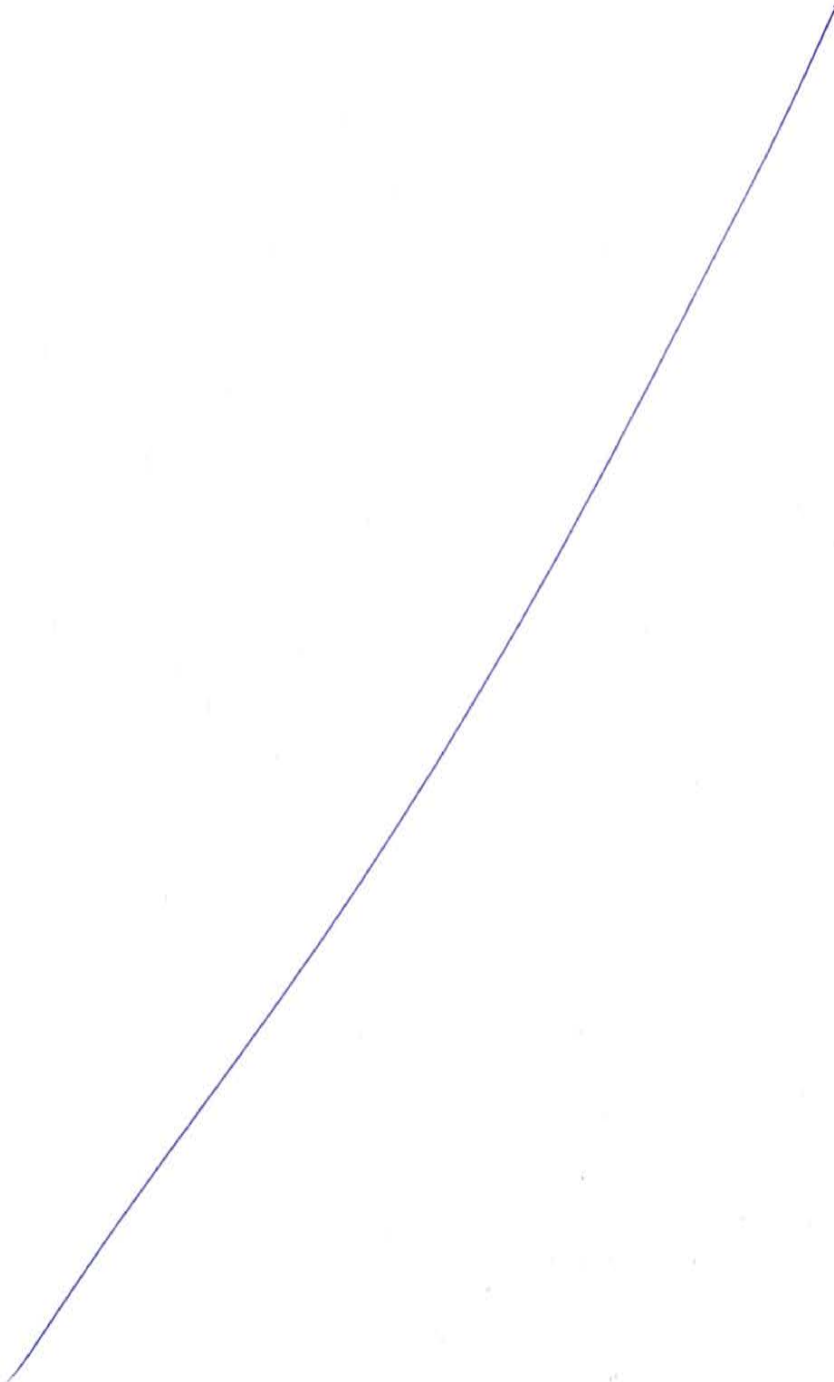
8938



Mumbai Trans Harbour Link Project (Package - 02)				
Sr. No.	Description/ Document	Doc. Belongs To	Page No.	
			From	To
COVER -B - Financial Bid				
1	Letter of Price Bid	JV	INCLUDED	
2	Schedule of Price Adjustment	JV	INCLUDED	
3	Price Schedule	JV	INCLUDED	
4	Proposed Schedule of Rates for Variation	JV	INCLUDED	
5	Others as per ITB 11.3	JV	INCLUDED	
6	Form CHK - Check Sheet for Price Bid	JV	INCLUDED	



8940



Daewoo-TPLJV/UI-RBP/MMRDA/MTHL-I/03/808

18th July, 2017

Letter of Price Bid

Date: **18th July, 2017**

Loan Agreement No.: **Mumbai Trans-Harbour Link Project (I) ID-P255**

IFB No.: **MMRDA/ENGI/000753**

To: Mumbai Metropolitan Region Development Authority,

We, the undersigned, declare that:

(a) We have examined and have no reservations to the Bidding Documents for Package- 2 of the Mumbai Trans Harbour Link Project (hereinafter called "the Project"), including the following Addenda issued in accordance with Instructions to Bidders (ITB 8):

Addendum No.01 dtd. 01/06/2017
Addendum No.02 dtd. 01/06/2017
Addendum No.03 dtd. 22/06/2017
Addendum No.04 dtd. 22/06/2017
Addendum No.05 dtd. 07/07/2017

(b) We offer to design, supply, manufacture/fabricate, transport, deliver, construct, install/erect, test, commission and complete the Works of Package-2 of the Project, in strict conformity with the Bidding Documents, if the Contract is awarded to us. The work includes 7.807 km long bridge section (CH 10+380 – CH18+187) across the Mumbai Bay and Shivaji Nagar Interchange of the typical carriageway width of approximately 14 m each way.

(c) The total price of our Bid ("Bid Price" set forth in ITB 18.1), excluding any discounts offered in item (d) below is:

[The total bid price including provisional sum in INR is Rupees Five Thousand Six Hundred Twelve Crore Sixty Lakh Sixty One Thousand Five Hundred Eighty Four only]

Price Bid Amount in Figures: INR 5612,60,61,584/-

The Breakup of Above Price in different currencies is as below:

INR 3815,72,14,609/- (Rupees Three Thousand Eight Hundred Fifteen Crore Seventy Two Lakh Fourteen Thousand Six Hundred Nine Only)

USD 153,633,958/- (USD One Hundred Fifty Three Million, Six Hundred Thirty Three Thousand ,Nine Hundred Fifty Eight Only)

J.Yen 13,952,414,961/- (J.Yen Thirteen Billion, Nine Hundred Fifty Two Million, Four Hundred Fourteen Thousand, Nine Hundred Sixty One only)

(d) The discounts offered and the methodology for their application are as follows:

The discounts offered are shown below: NIL.

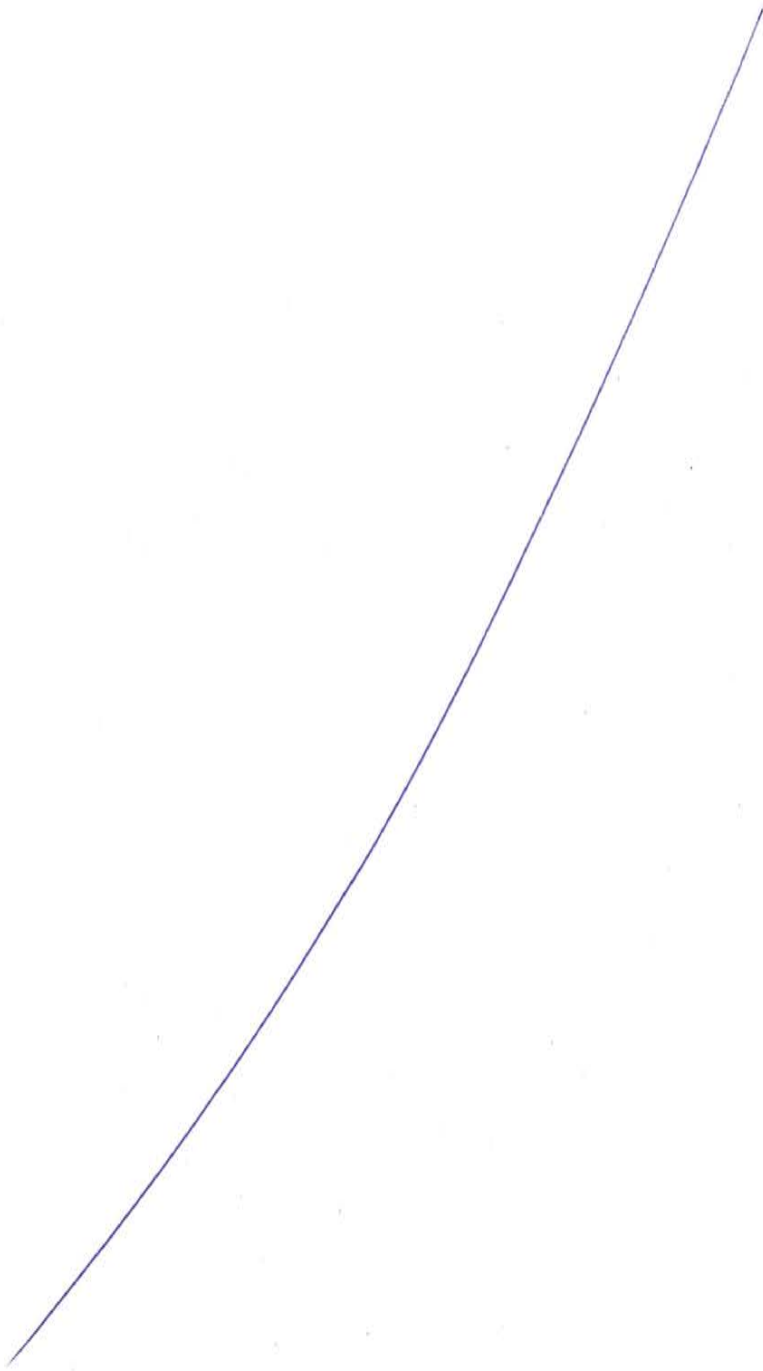


**Mumbai Metropolitan
Region Development
Authority**

DOCUMENT TITLE

Letter of Price Bid

SEP 1942



The exact method of calculations to determine the net price after application of discounts is shown below:
[NA]

(e) Our Bid shall be valid for a period of 180 days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(f) Our acceptance of your proposed method for award decision-making stated in item (e) of the Letter of Technical Bid is valid as well for this Price Proposal.

(g) If our Bid is accepted, we commit to obtain a Performance Security in accordance with the Bidding Documents;

(h) We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance shall constitute a binding Contract between us, until a formal Contract is prepared and executed; and

(i) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive.

Name of the Bidder: **Daewoo-TPL JV**

Name of the person duly authorized to sign the Bid on behalf of the Bidder: **Mr. Byoung-Hoi-Uhm**

Title of the person signing the Bid: **Deputy General Manager**

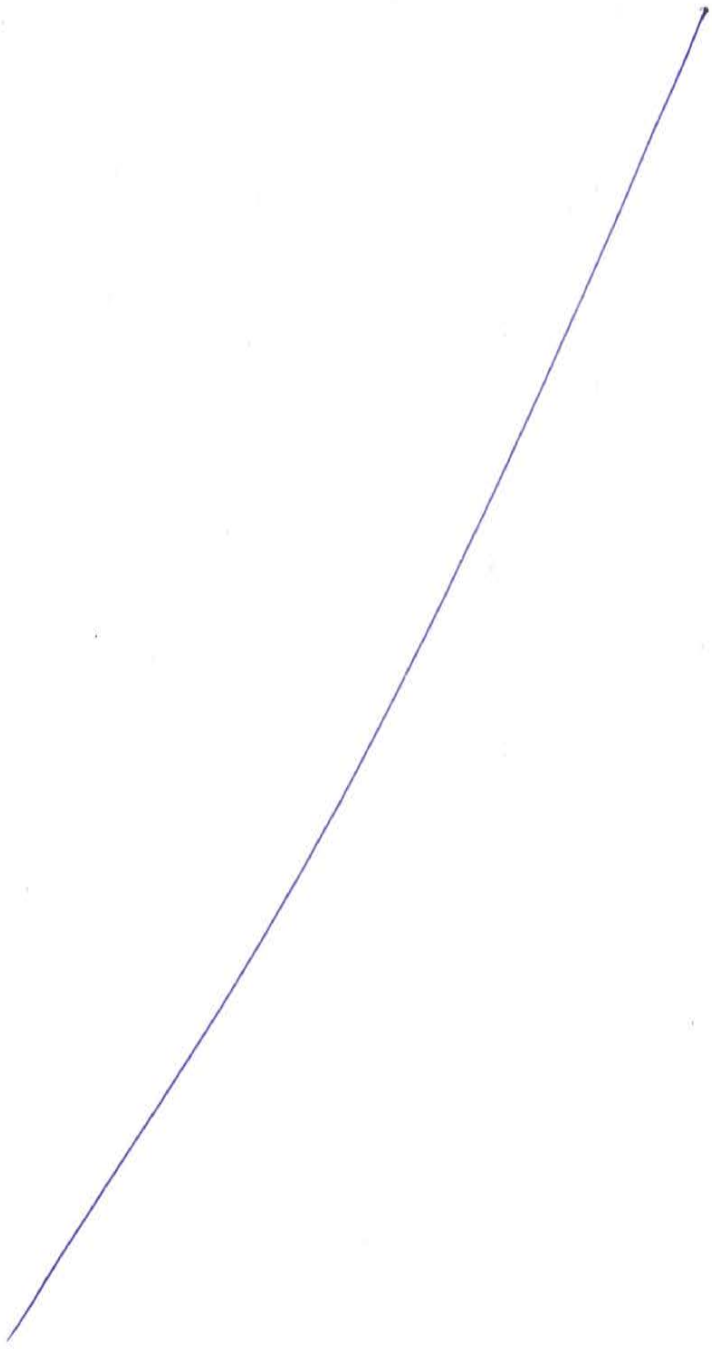
Signature of the person named above: _____



Date signed: 18th day of July, 2017.



8944



Schedule of Price Adjustment Data

Table A. Local Currency Portion

(1) Materials on the Site: Steel reinforcing bars (Price Schedule No. 4, Item No. 401, Price Schedule No. 5, Item No. 501, Price Schedule No. 6, Item 601, Price Schedule No. 8, Item 801 and Price Schedule No. 9, Item 901)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.02	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.78	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.00	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

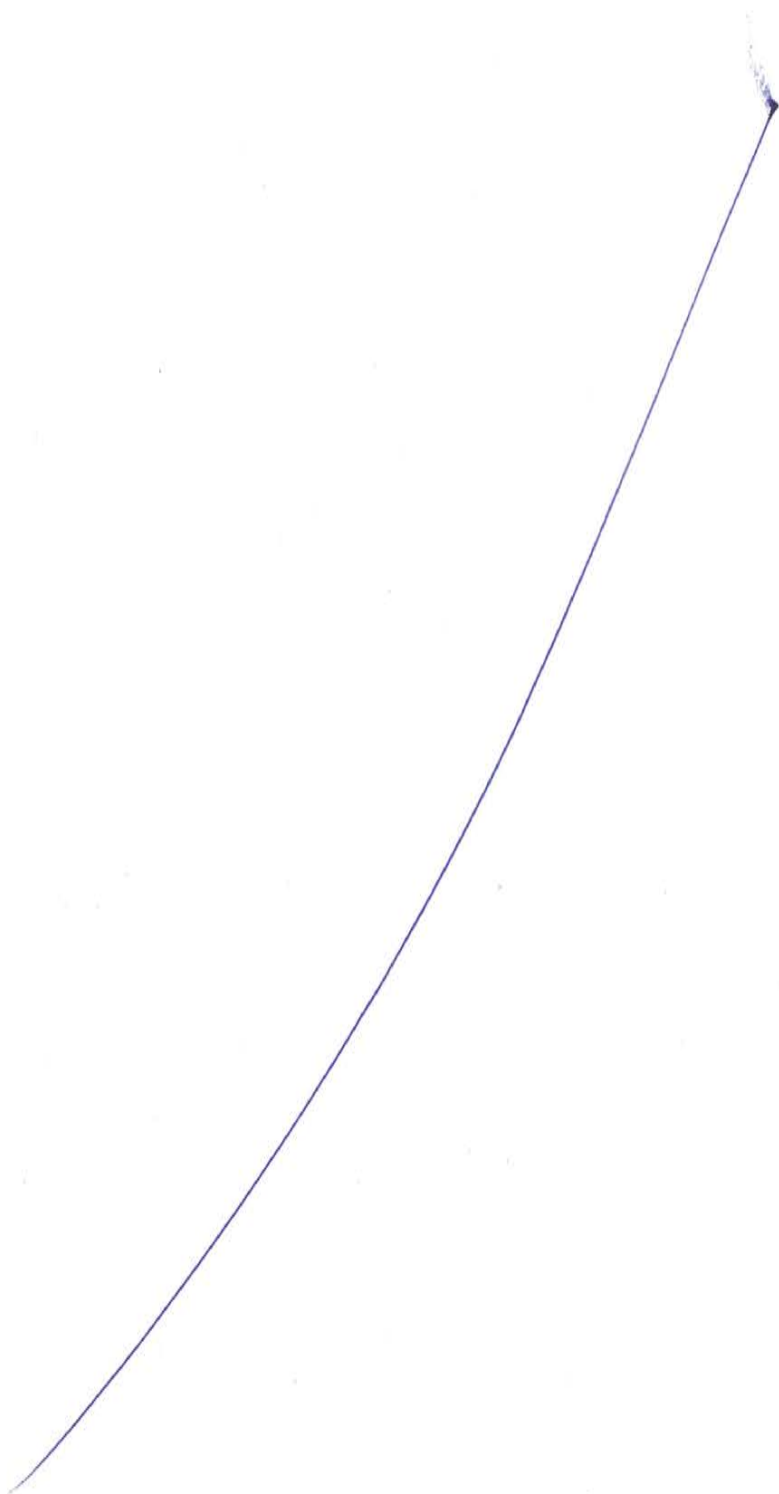
* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



348 22

8946



Schedule of Price Adjustment Data ⁸⁹⁴⁷

Table A. Local Currency Portion

(2) Materials on the Site: Steel liner pipes ((Price Schedule No. 4, Item No. 402 and Price Schedule No. 9, Item No. 902)

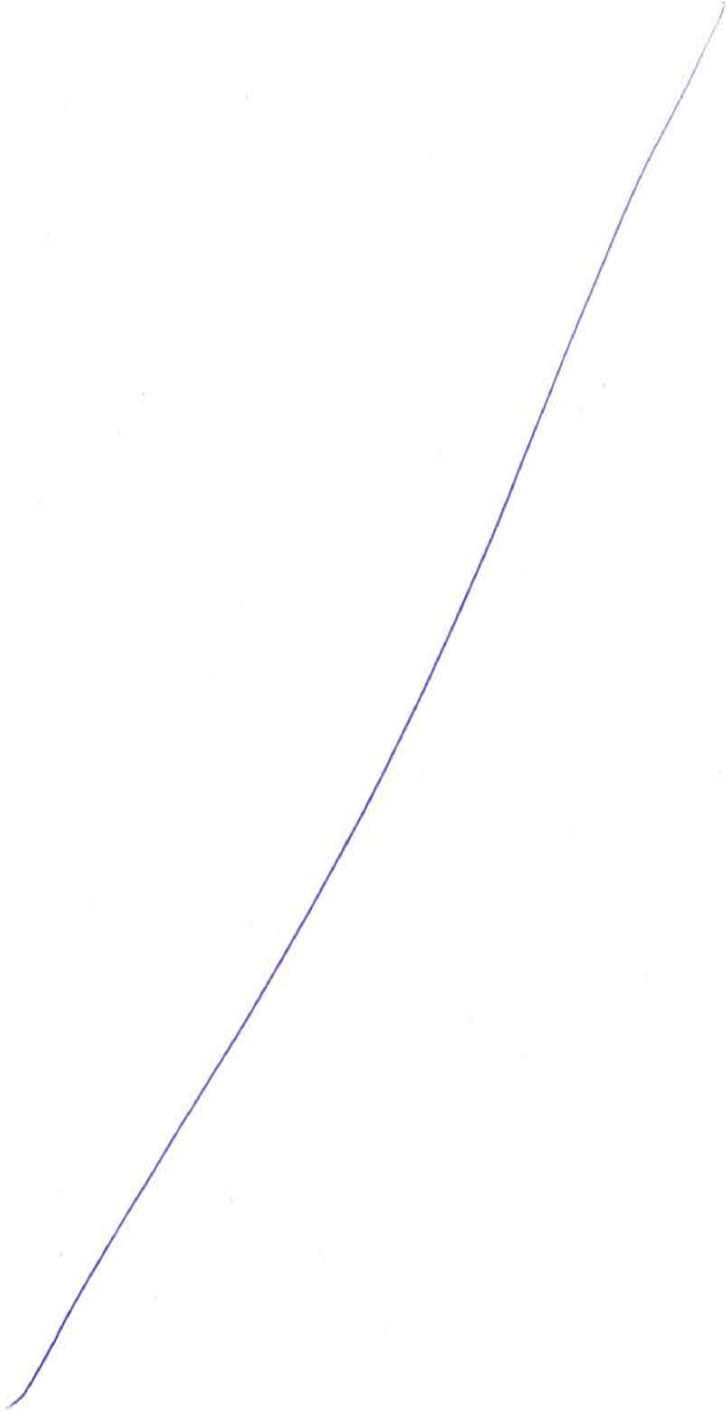
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.10	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.70	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.00	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8948



Schedule of Price Adjustment Data⁸⁹⁴⁰

Table A. Local Currency Portion

(3) Materials on the Site: Structural steel shapes (Price Schedule No. 5, Item No. 502 and Price Schedule No. 7, Item No. 701)

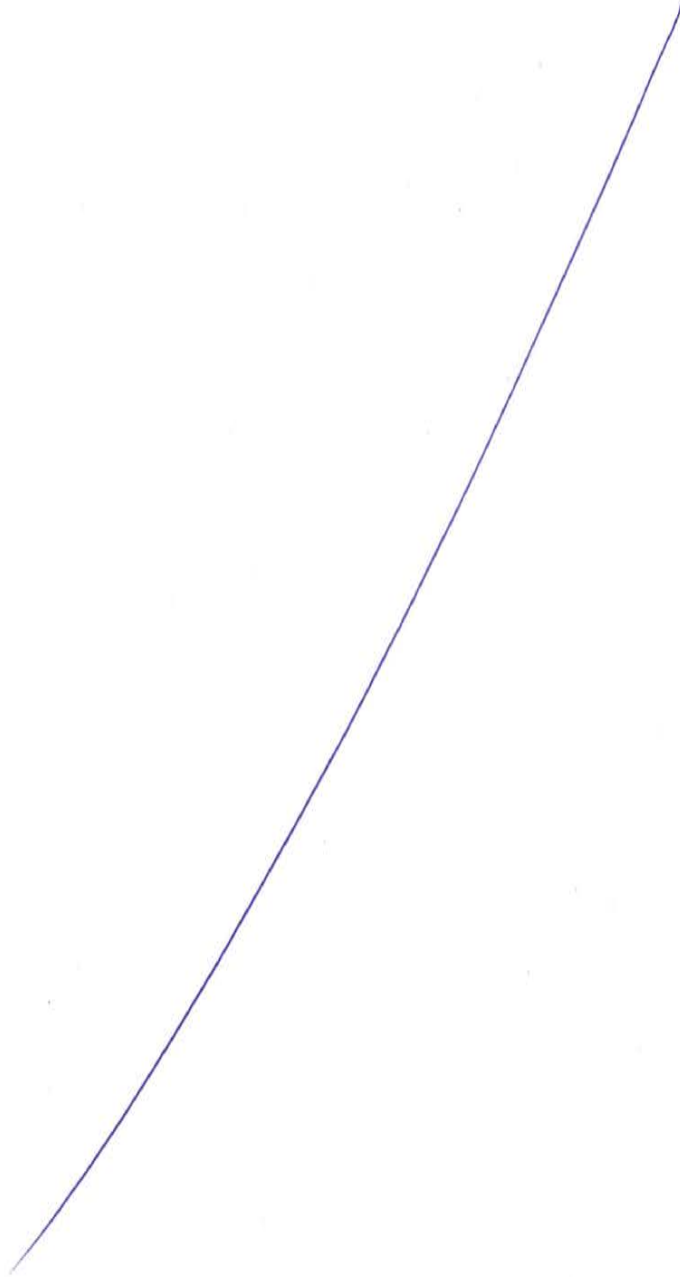
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.02	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.78	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.00	Average Wholesale Price Index Number of Cos tractroll Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8950



Schedule of Price Adjustment Data 8951

Table A. Local Currency Portion

(4) Materials on the Site: Pre-stressing cables (Price Schedule No. 5, Item No. 503 and Price Schedule No. 6, Item No. 602))

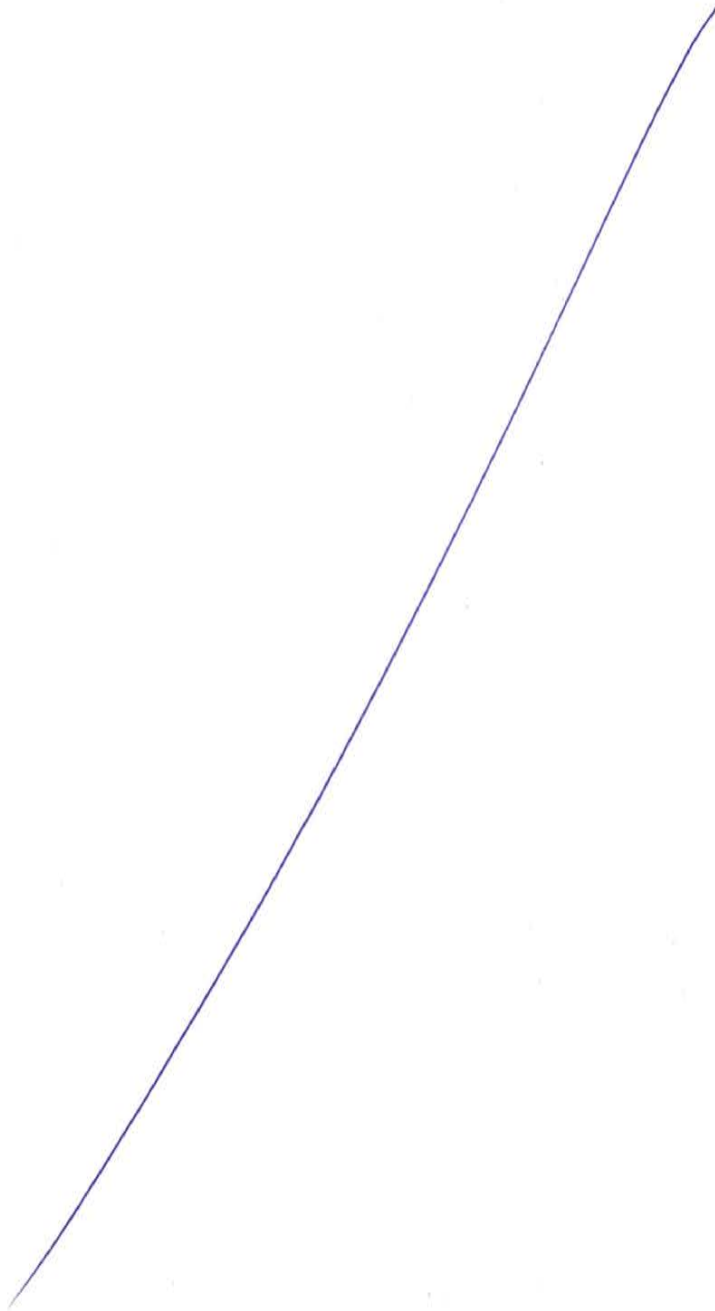
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.02	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.78	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.00	Average Wholesale Price Index Number of Constructroll Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8952



Schedule of Price Adjustment Data

8953

Table A. Local Currency Portion

(5) Materials on the Site: Bridge bearings and expansion joints (Price Schedule No. 10, Item Nos. 1001 and 1002)

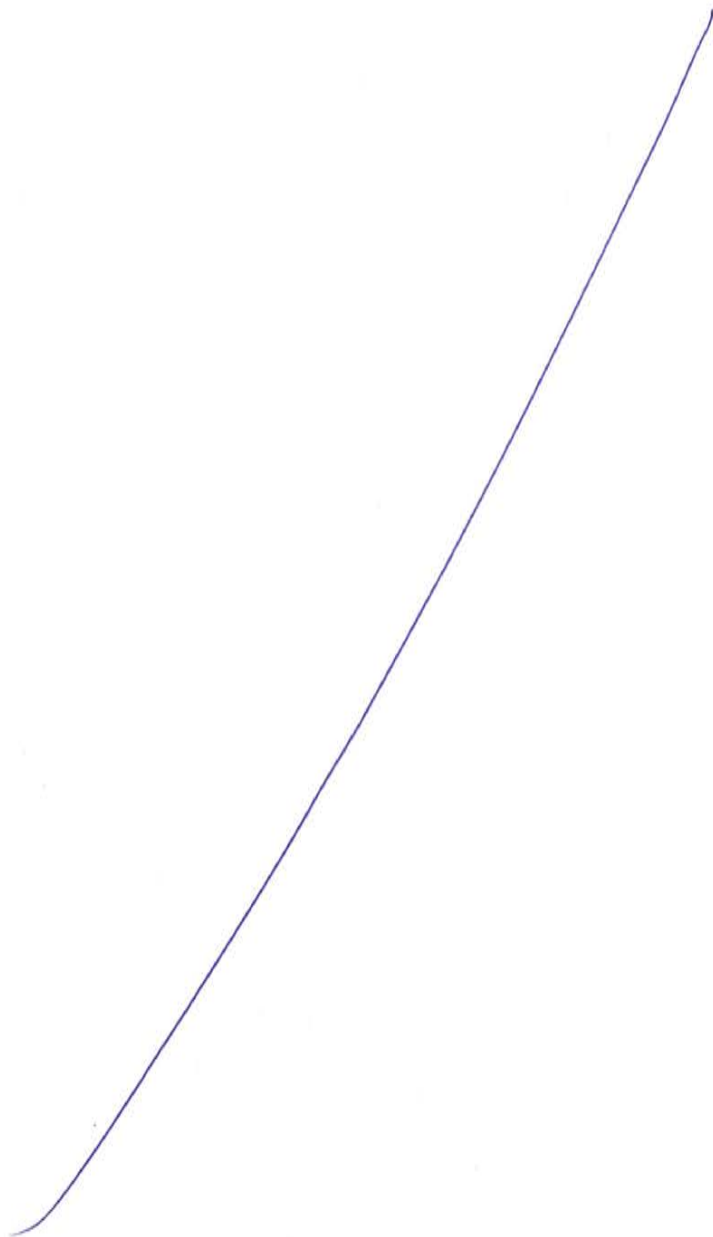
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.02	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.78	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.00	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8954



Schedule of Price Adjustment Data

8955

Table A. Local Currency Portion

(6) Materials on the Site: Noise barriers and view barriers (Price Schedule No. 12, Item Nos. 1201 and 1202)

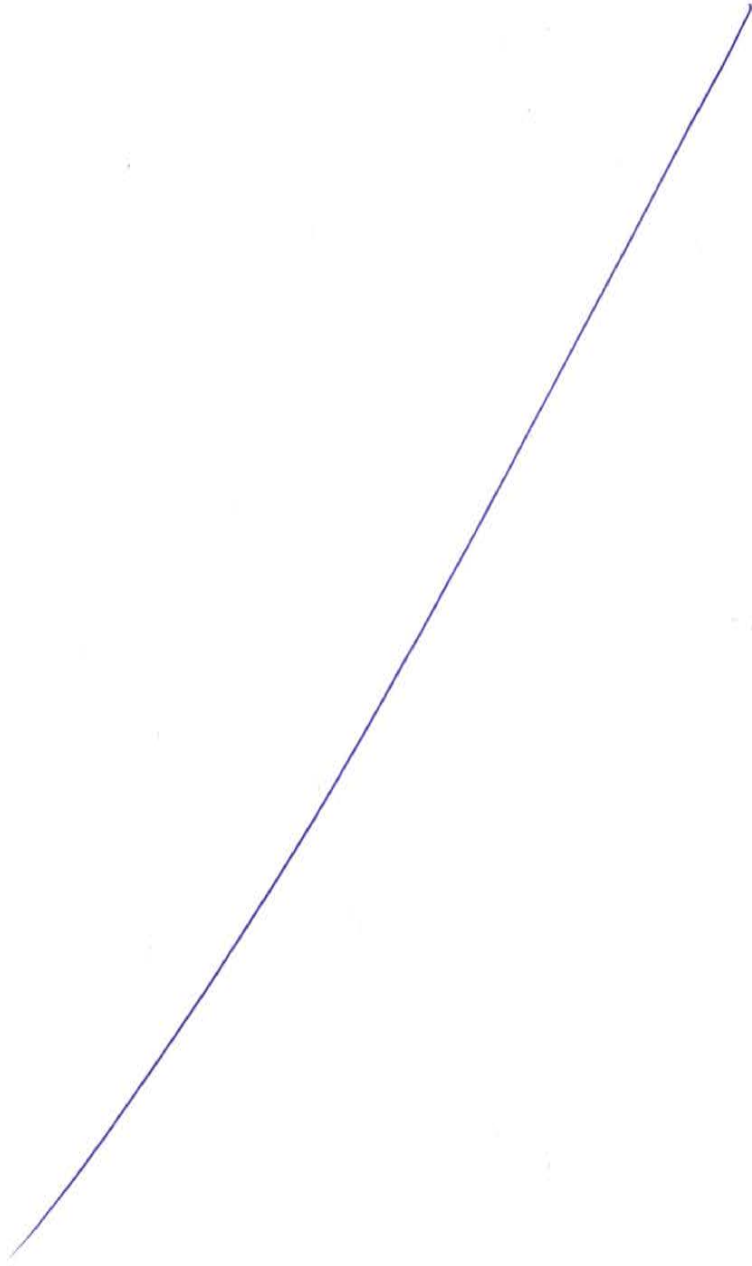
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.15	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.65	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.00	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8956



Schedule of Price Adjustment Data

Table A. Local Currency Portion

8957

(7) Foundation piles for piers, abutments and dolphins - Construction of foundation piles (Price Schedule No. 4, Item Nos. 403, 405, 407 and 409 and Price Schedule No. 9, Item No. 903)

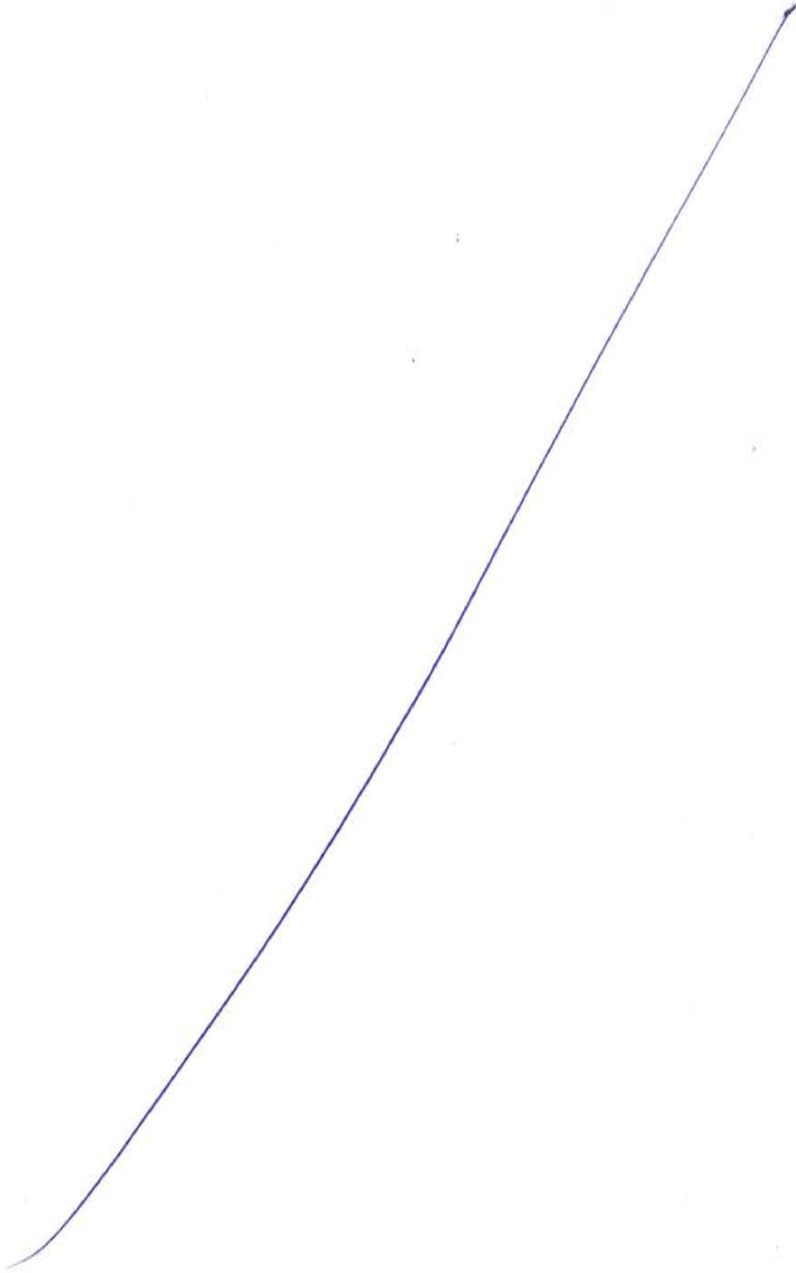
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.34	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.01	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.30	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.10	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8958



Schedule of Price Adjustment Data 8959

Table A. Local Currency Portion

(8) Cast-in situ reinforced concrete work for piers, abutments and dolphins (Price Schedule No. 5, Item Nos. 504 — 511, Price Schedule No. 6, Item Nos. 605 - 607 and Price Schedule No. 9, Item No. 905)

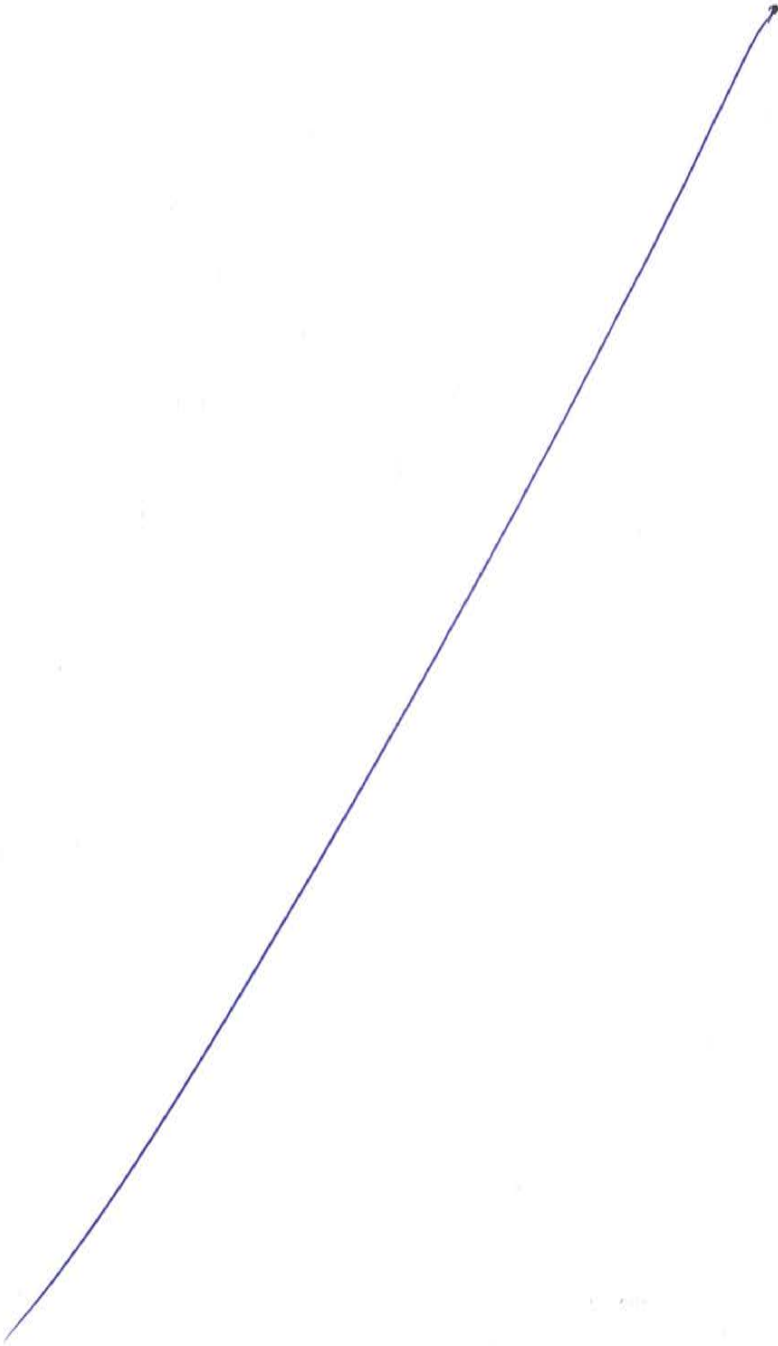
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.34	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.01	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.30	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.10	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8960



Schedule of Price Adjustment Data 8961

Table A. Local Currency Portion

(9) Cast-in situ reinforced concrete work for retaining walls (Price Schedule No. 8, Item No. 802)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.34	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.01	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.40	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.05	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

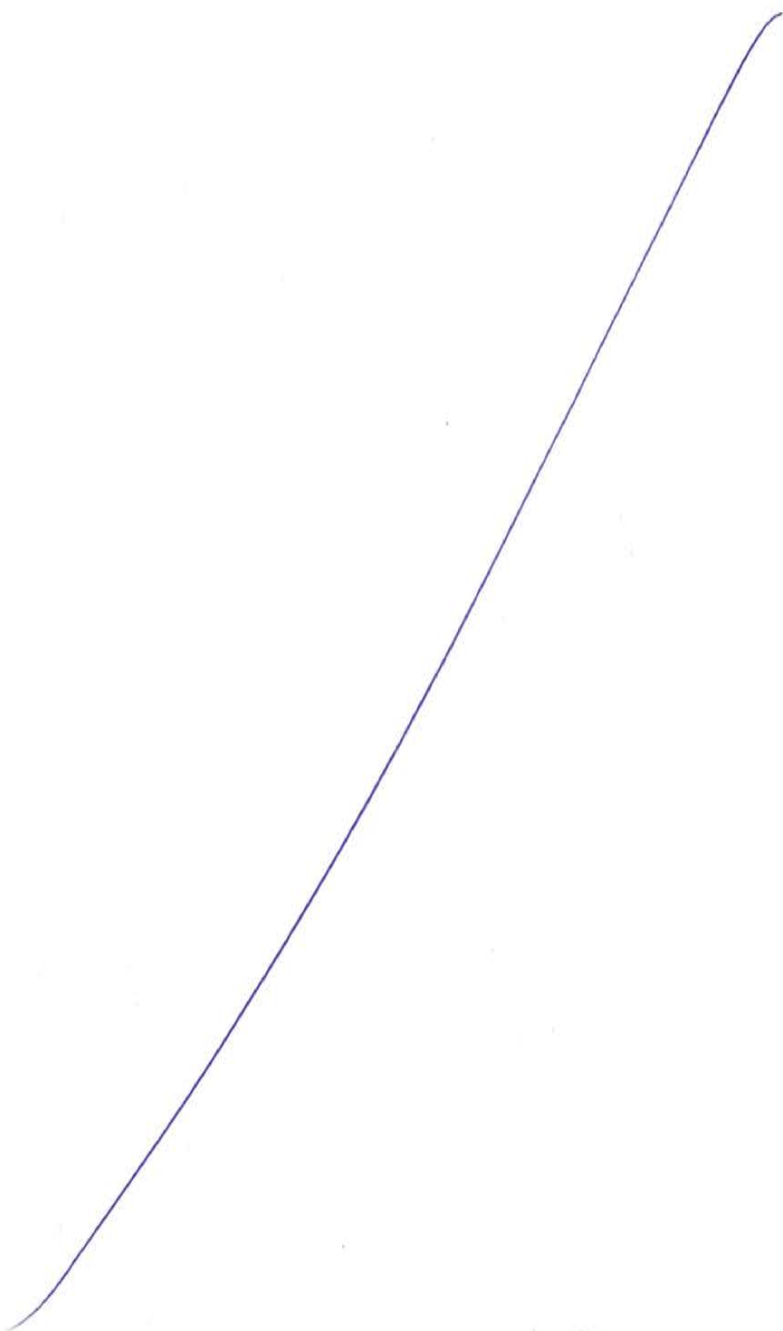
* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



198

8962



Schedule of Price Adjustment Data

8963

Table A. Local Currency Portion

(10) Concrete superstructure - Precast prestressed concrete superstructure fabrication work (Price Schedule No. 6, Item No. 603)

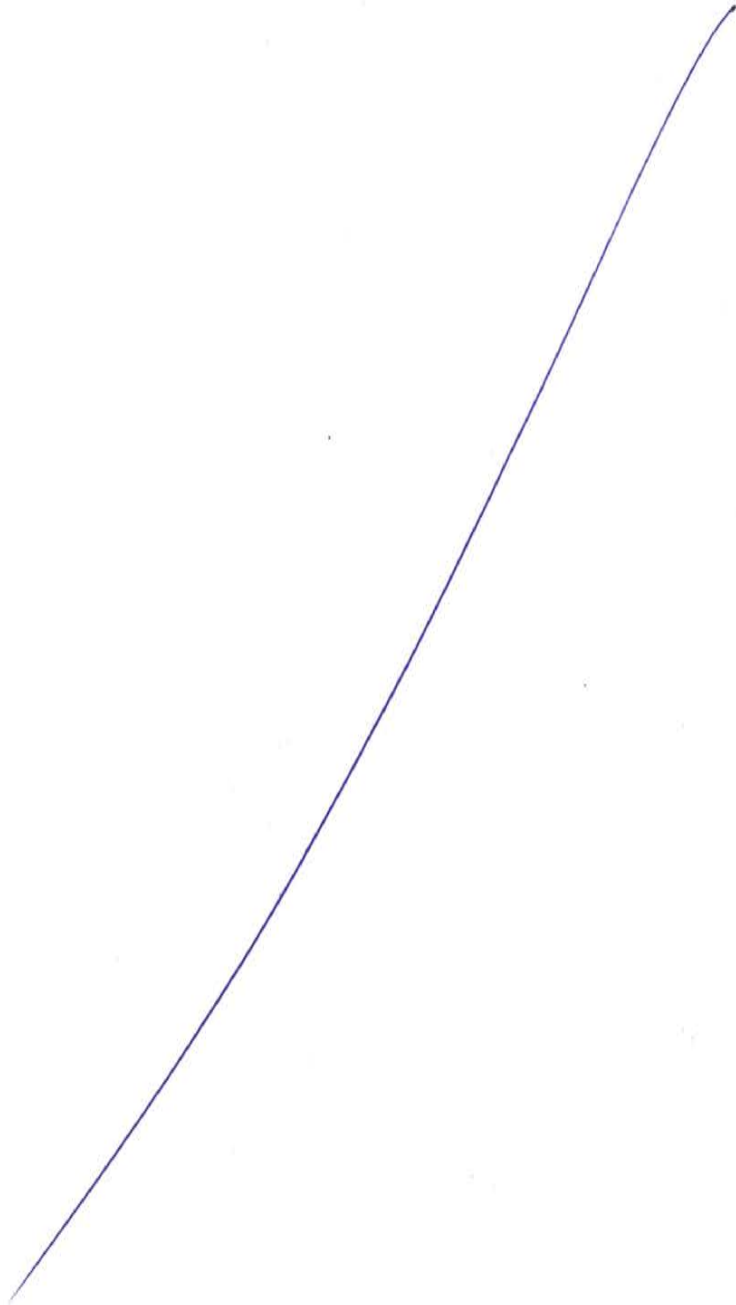
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.34	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.01	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.40	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.05	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8964



Schedule of Price Adjustment Data - 8965

Table A. Local Currency Portion

(11) Concrete superstructure - Precast prestressed concrete superstructure transportation and erection work (Price Schedule No. 6, Item No. 604)

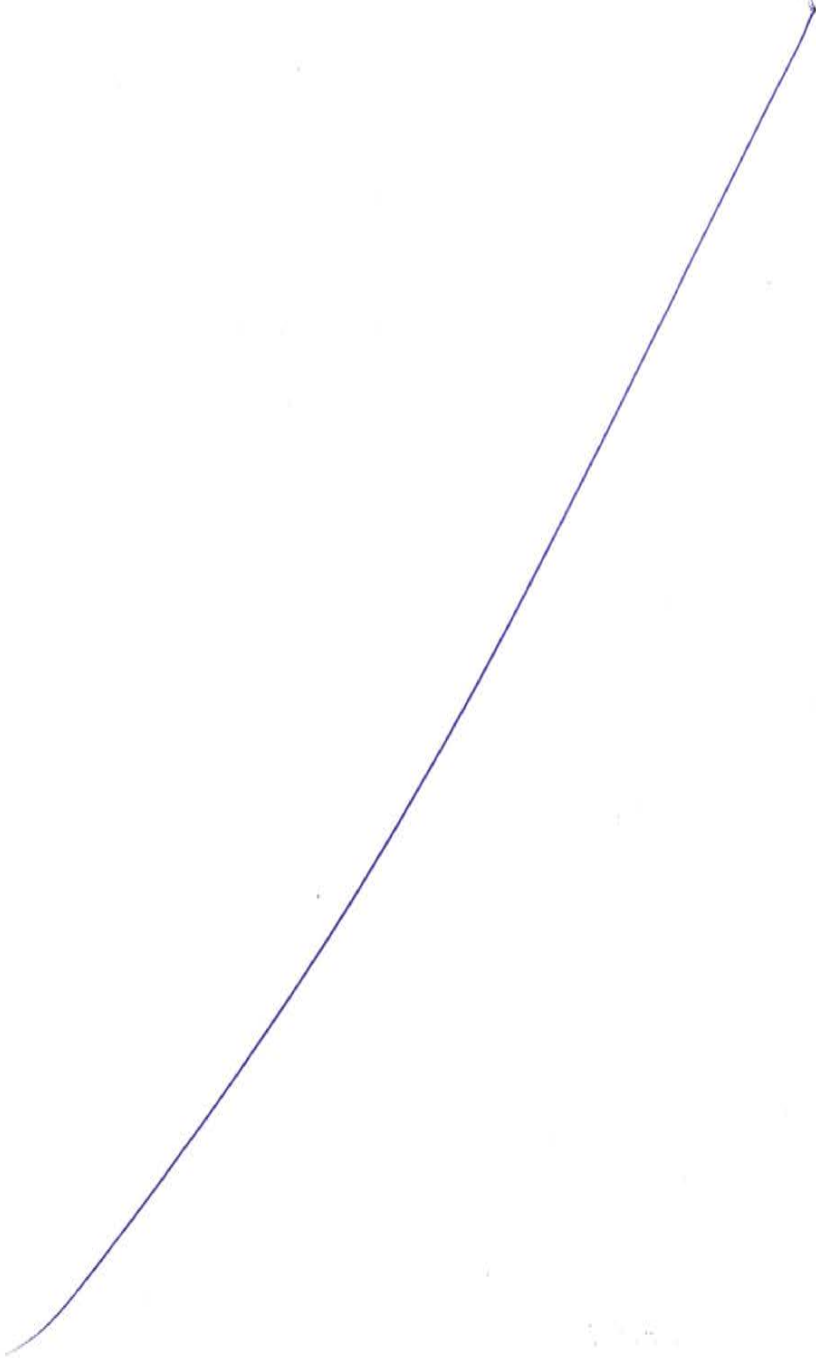
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.40	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.25	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.20	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8966



Schedule of Price Adjustment Data - 8967

Table A. Local Currency Portion

(12) Steel superstructure - Steel superstructure fabrication work (Price Schedule No. 7, Item Nos. 702 and 703)

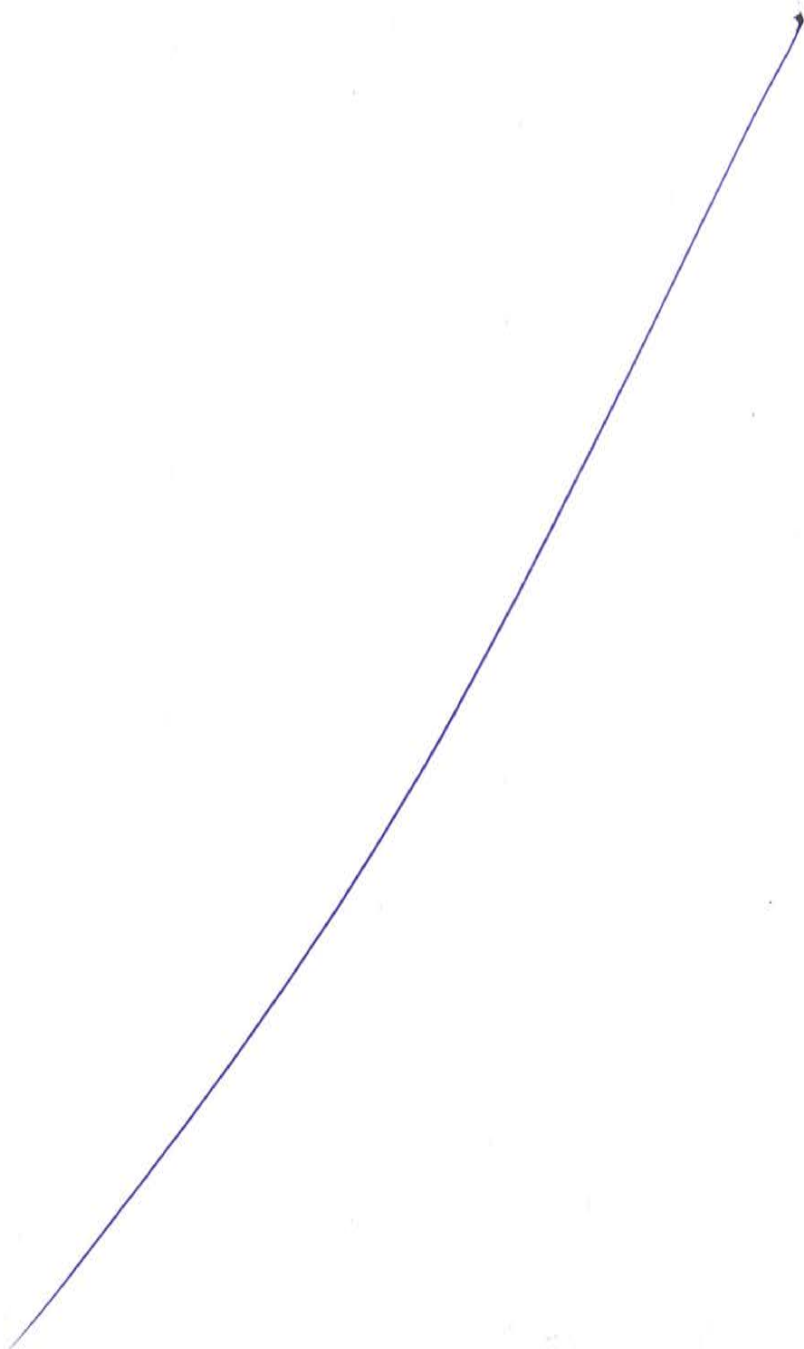
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.55	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.20	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



..# 8968



Schedule of Price Adjustment Data 8969

Table A. Local Currency Portion

(13) Steel superstructure - Steel superstructure transportation and erection work (Price Schedule No. 7, Item Nos. 704 and 705)

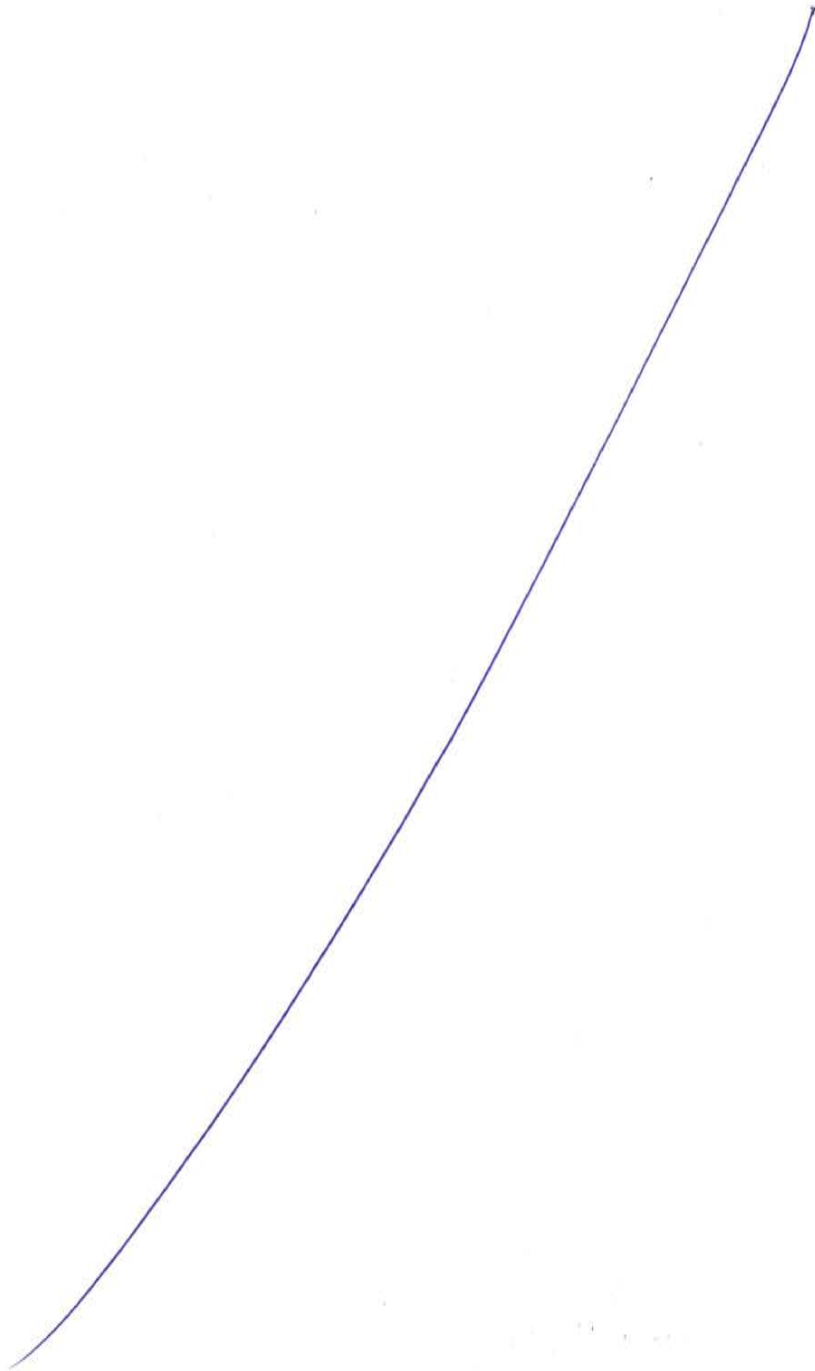
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.60	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.15	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8970



Schedule of Price Adjustment Data

897

Table A. Local Currency Portion

(14) Steel superstructure - Surface anti-corrosion coating (Price Schedule No. 7, Item Nos. 706 and 707)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.60	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.20	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.05	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

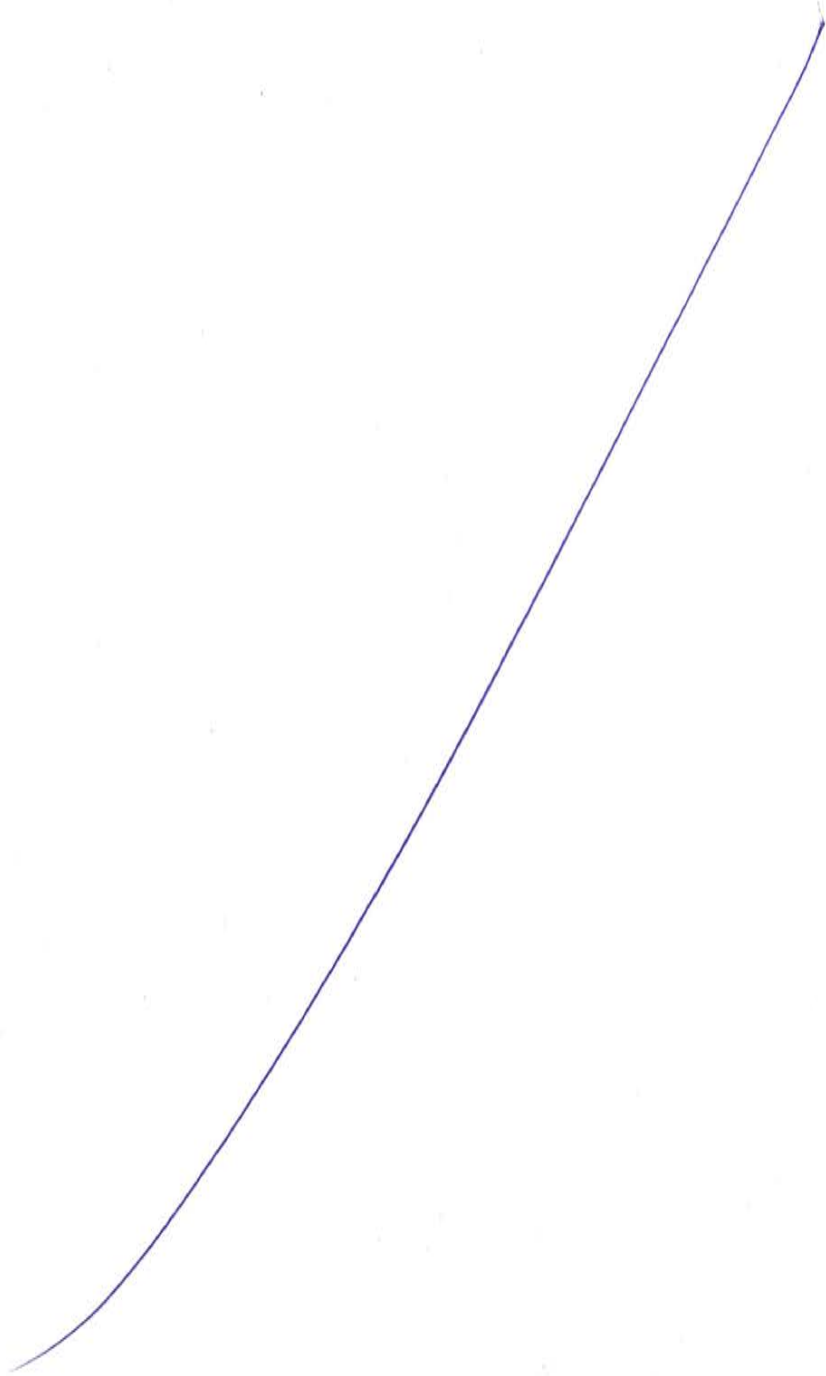
* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8972

508



Schedule of Price Adjustment Data - 8973

Table A. Local Currency Portion

(15) Dolphins - Fenders (Price Schedule No. 9, Item No. 906)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.10	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [Rubber]	g = 0.70	Basic Wholesale Price Index Number of Rubber on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Construction machinery	h = 0.00	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

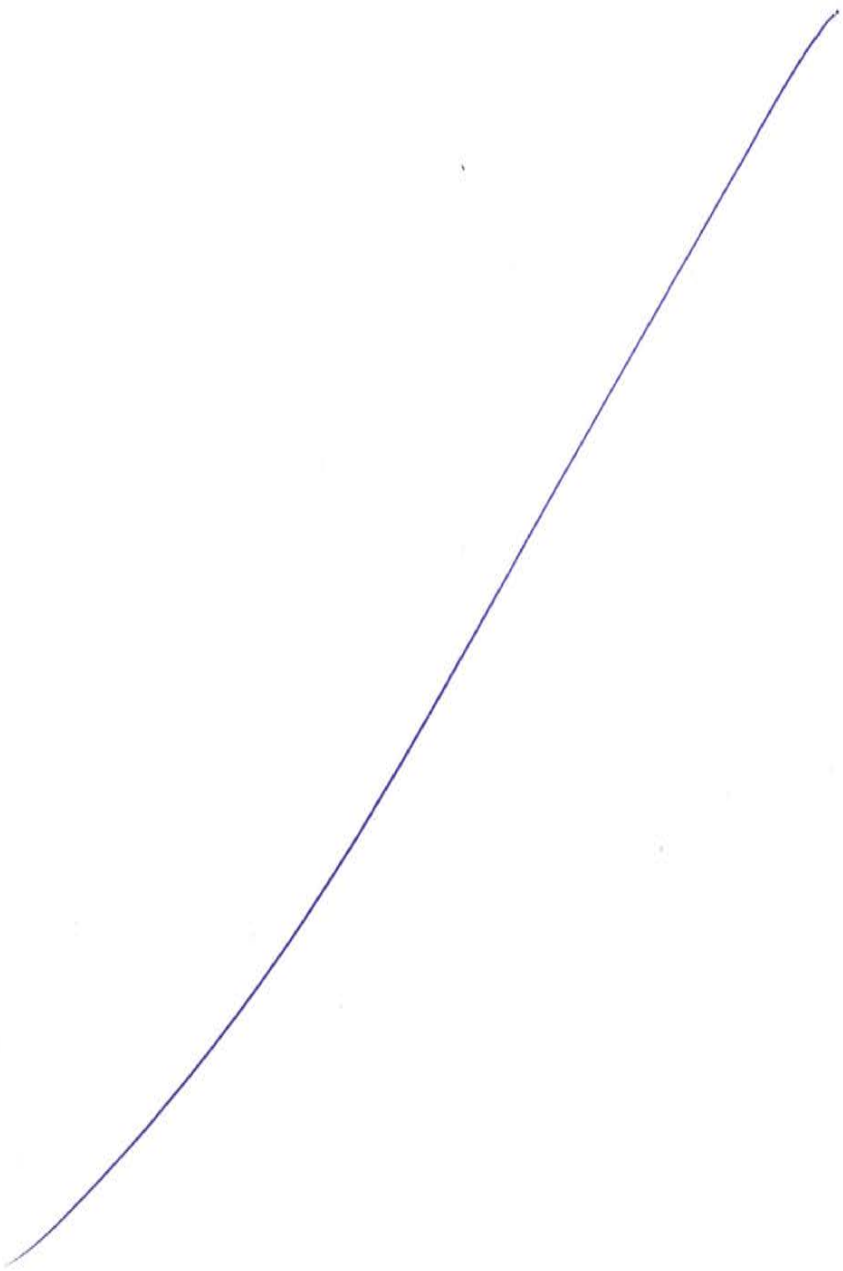
* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



1978

..E 8974



Schedule of Price Adjustment Data⁸⁹⁷⁵

Table A. Local Currency Portion

(16) Bridge ancillaries - Bridge bearings installation (Price Schedule No. 10, Item No. 1003)

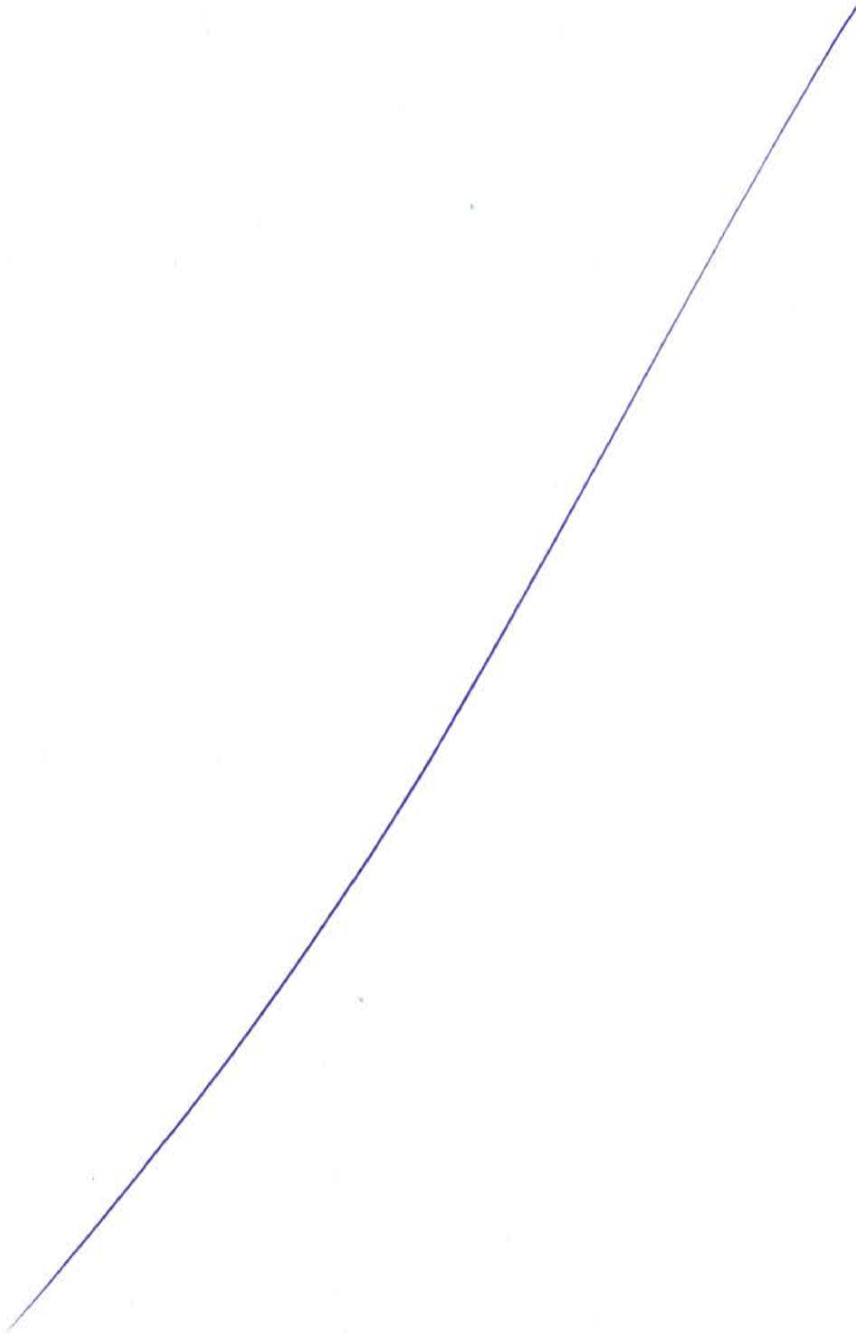
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.65	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.10	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Constructroll Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8976



Schedule of Price Adjustment Data 8977

Table A. Local Currency Portion

(17) Bridge ancillaries - Expansion joints installation (Price Schedule No. 10, Item No. 1004)

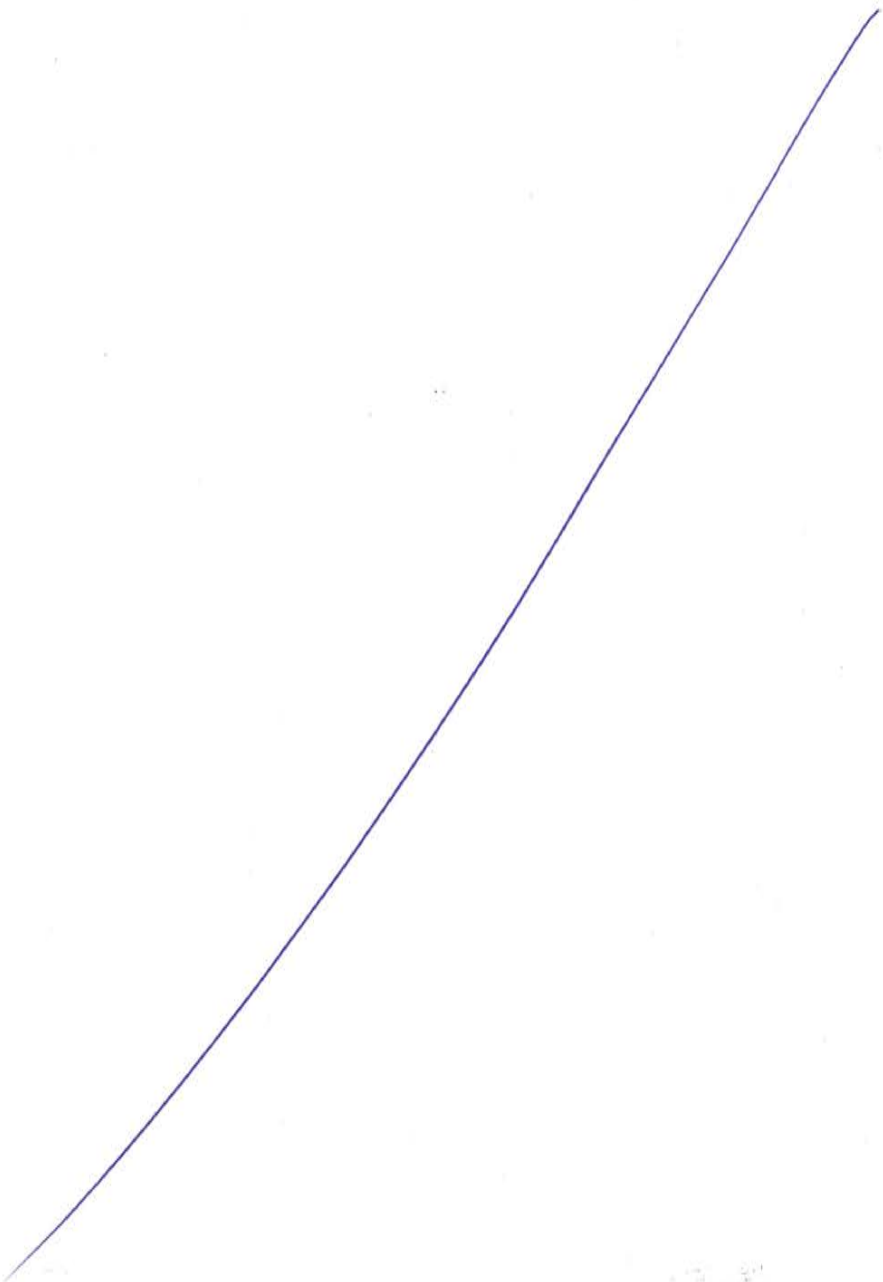
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.65	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.10	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8978



Schedule of Price Adjustment DataTM - 8979

Table A. Local Currency Portion

(18) Bridge ancillaries - Crash barriers (Price Schedule No. 10, Item No. 1005)

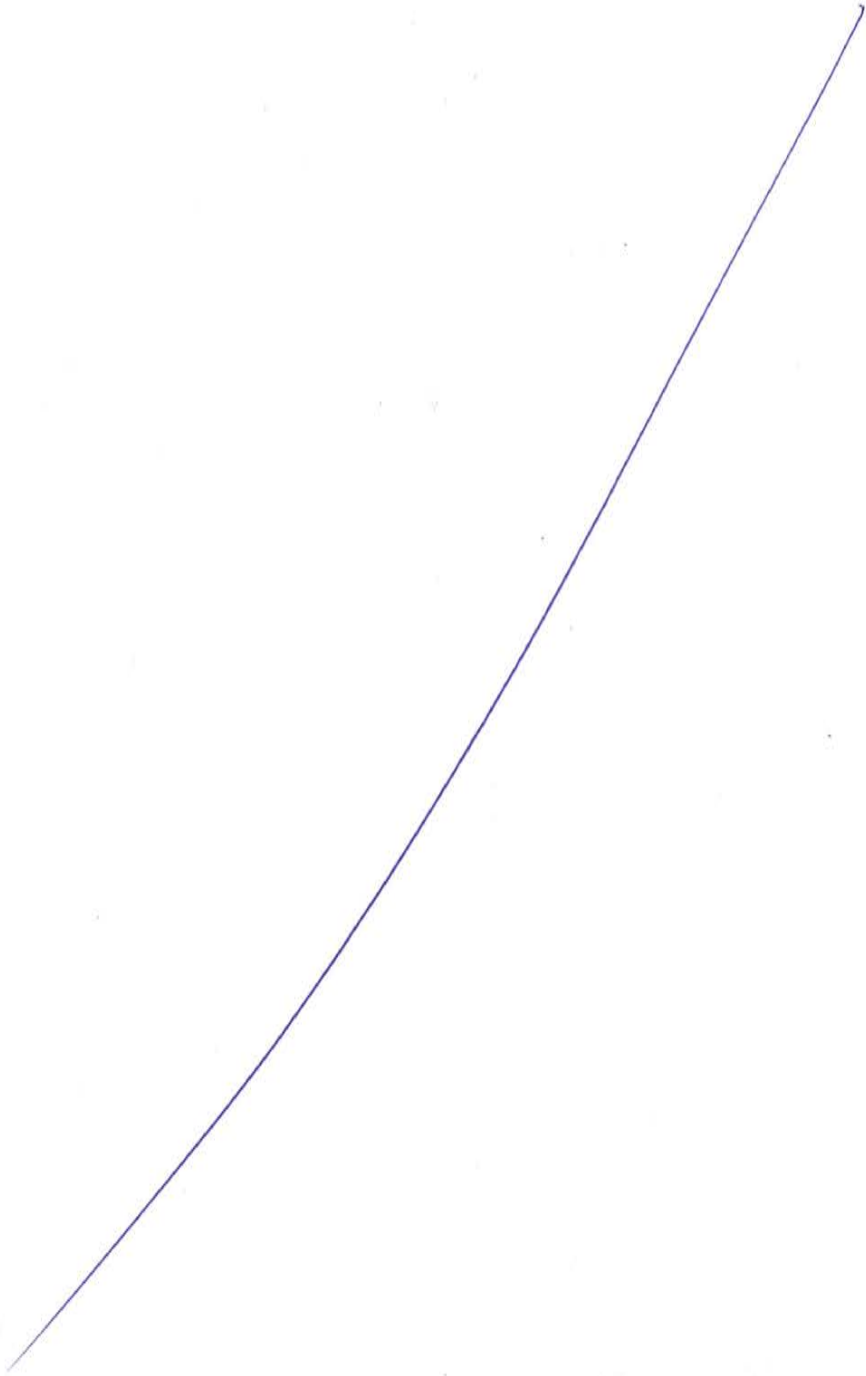
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.34	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.01	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.30	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.10	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Constructroll Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8980



Schedule of Price Adjustment Data 8981

Table A. Local Currency Portion

(19) Bridge ancillaries - Deck waterproofing (Price Schedule No. 10, Item No. 1006)

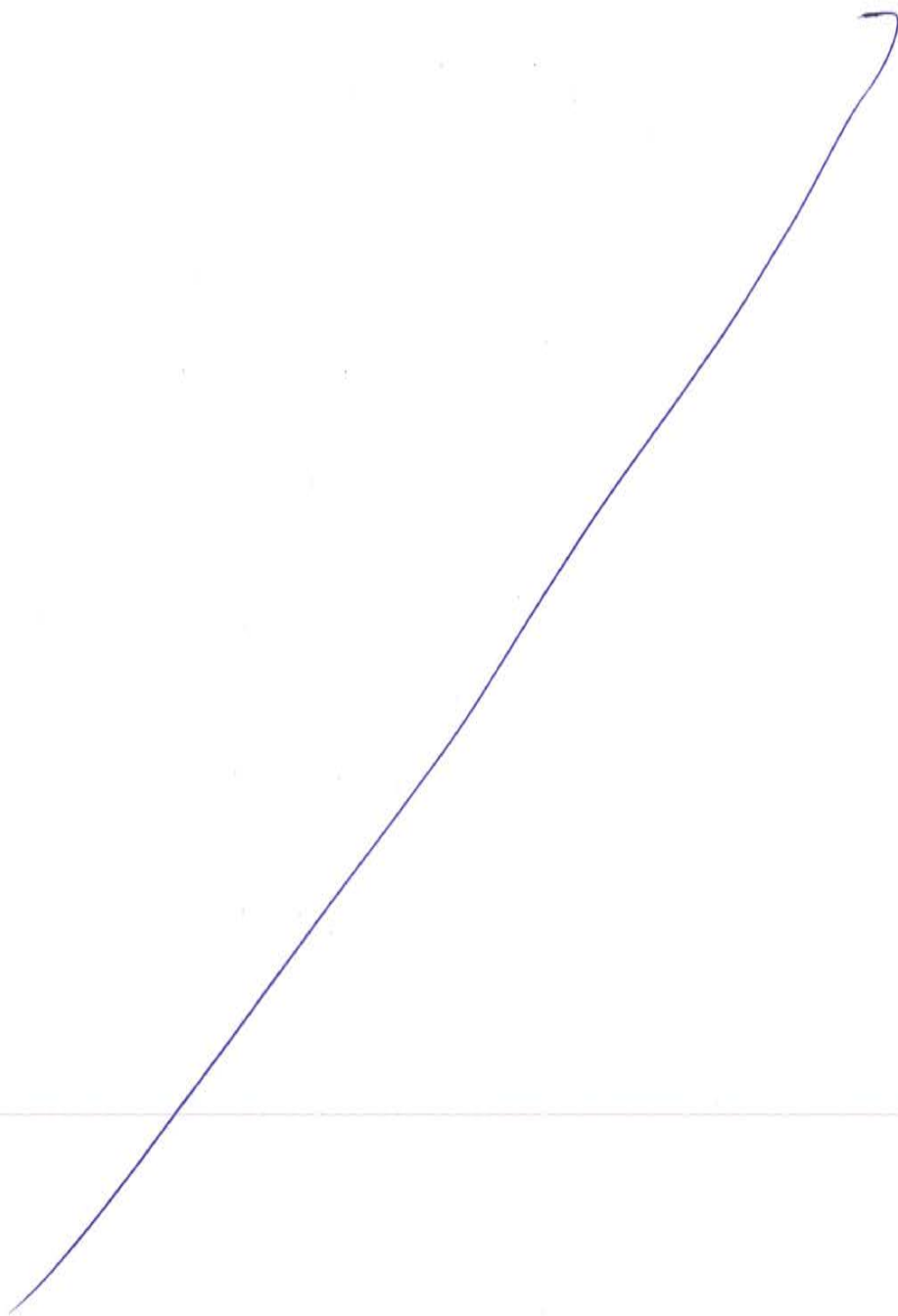
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.35	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.05	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [Waterproofing Paint]	g = 0.40	Basic Wholesale Price Index Number of Paint on the Base Date	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Construction machinery	h = 0.05	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8982



1951

Schedule of Price Adjustment Data 8983

Table A. Local Currency Portion

(20) Asphalt pavement - Asphalt pavement (Price Schedule No. 11, Item No. 1101)

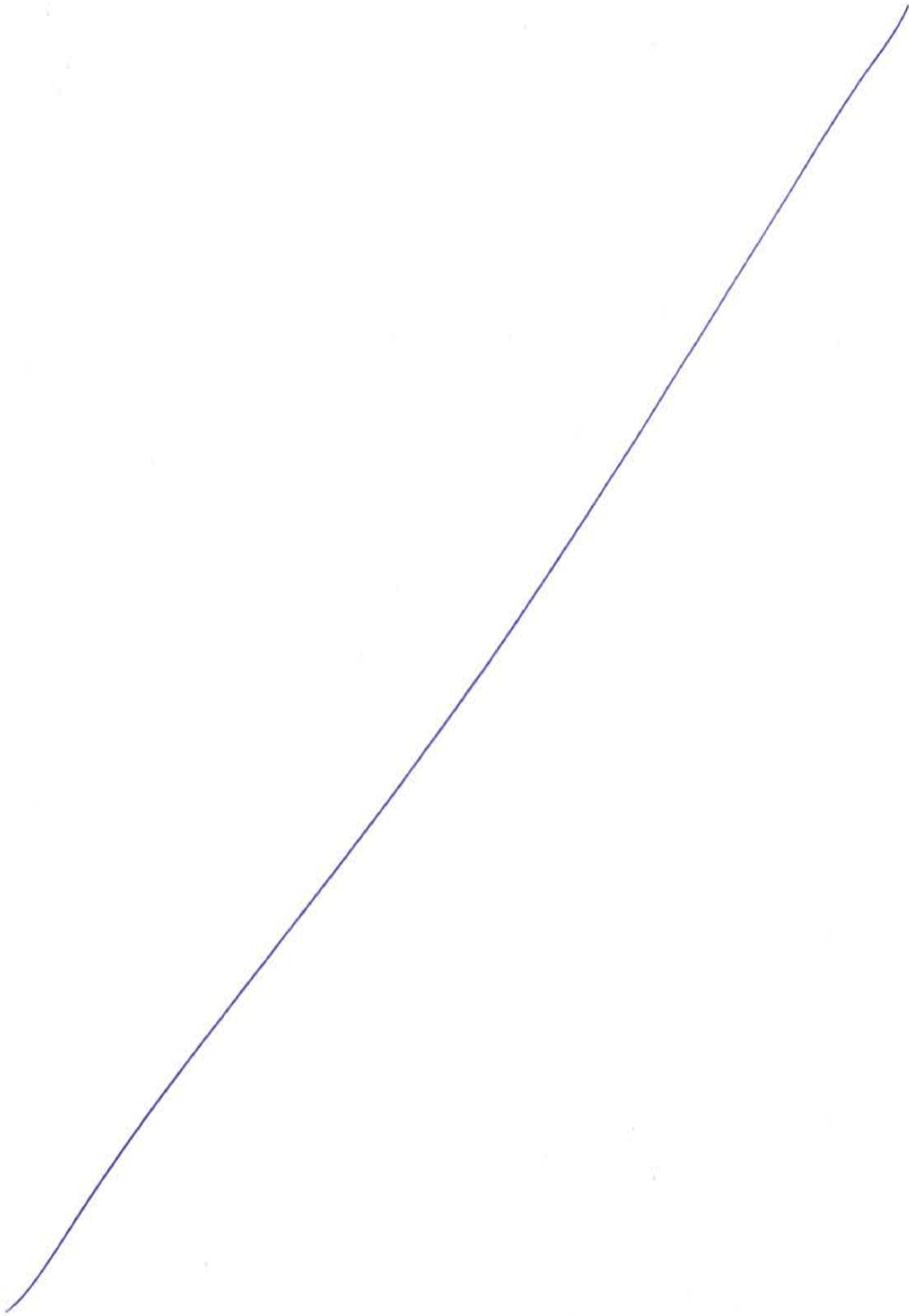
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.29	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.40	*1	HPCL	VG -30 Bulk : Rs28190.20/- VG-40 Bulk: 28933.6 Including GST
Fuel/lubricant	f = 0.06	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.10	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8984



Schedule of Price Adjustment Data# 8985

Table A. Local Currency Portion

(21) Miscellaneous items - Noise barriers and view barriers installation (Price Schedule No. 12, Item Nos. 1203 and 1204)

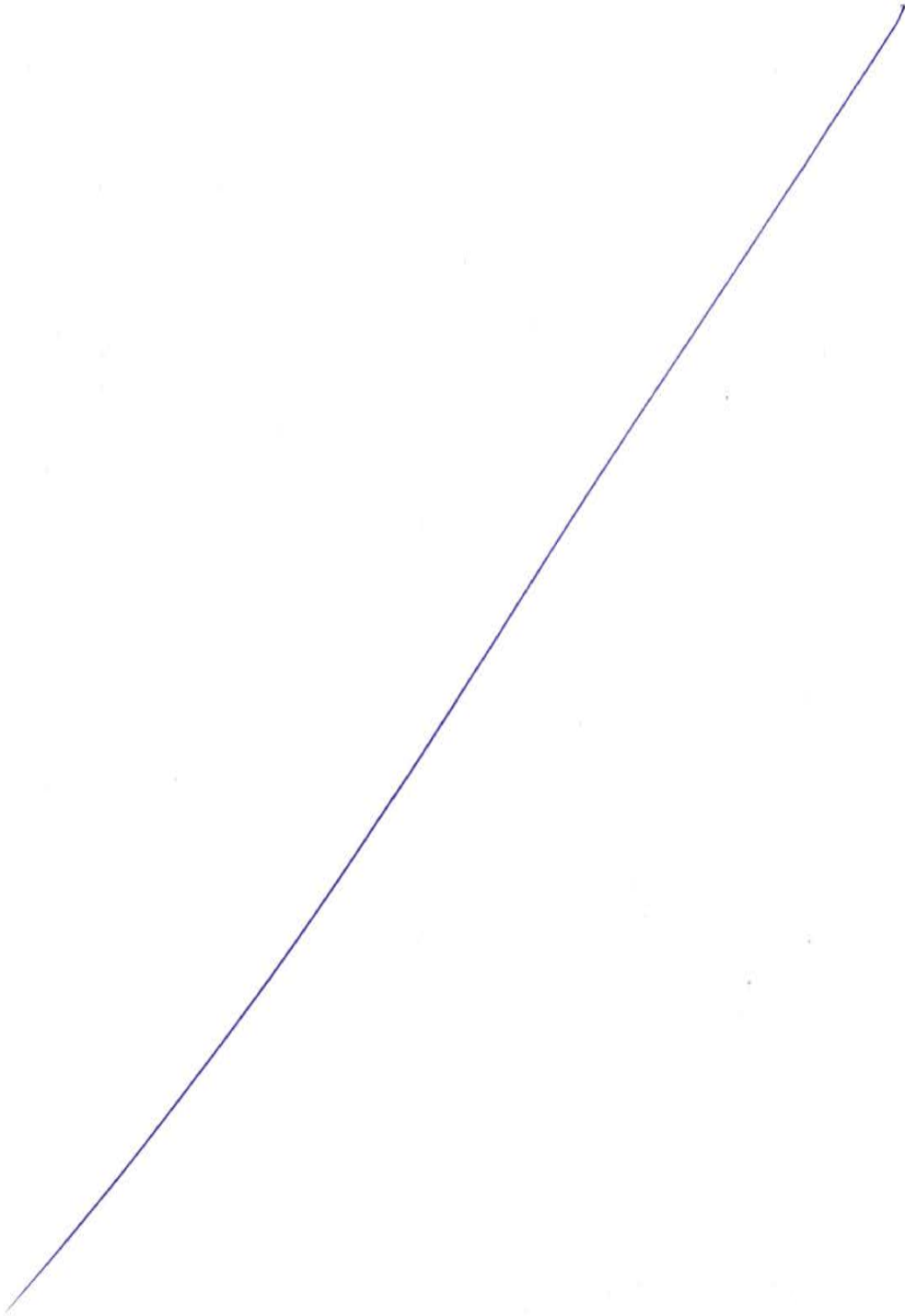
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.70	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.00	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.07	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.08	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI Indices are not available, the indices of similar materials/items shall apply.



8980



Schedule of Price Adjustment Data 8987

Table A. Local Currency Portion

(22) Miscellaneous items - Safety fences (Price Schedule No. 12, Item No. 1205)

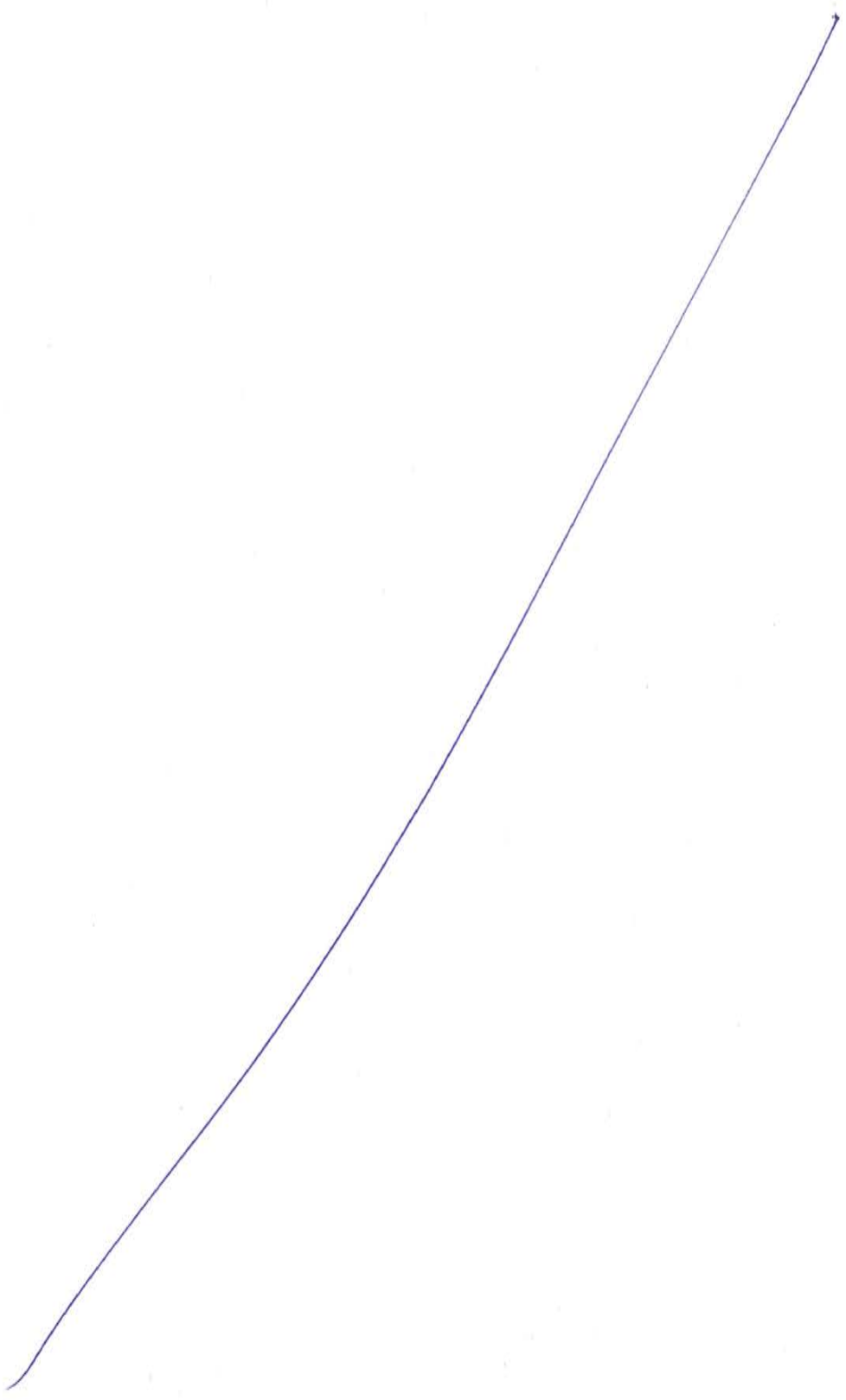
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.40	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.30	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.07	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.08	Average Wholesale Price Index Number of Cos tractroll Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8988



Schedule of Price Adjustment Data

8989

Table A. Local Currency Portion

(23) Miscellaneous items - Drainage facilities (Price Schedule No. 12, Item No. 1206)

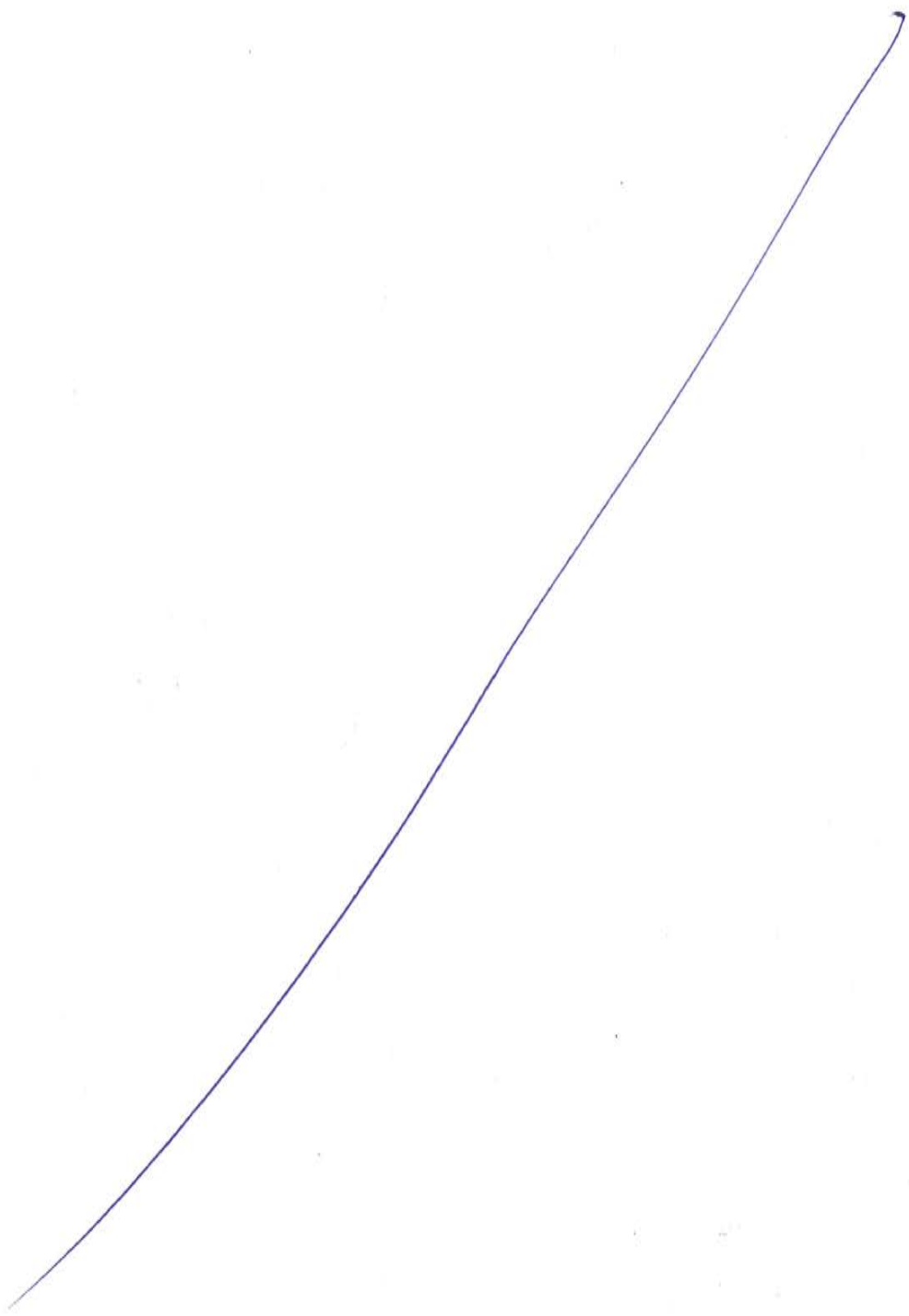
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.40	Basic Consumer Price Index Number of industrial worker on the Base Dates	Reserve Bank of India (RBI) Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Steel	c = 0.30	Basic Wholesale Price Index Number of steel on the Base Date	RBI Bulletin	Ditto
Cement	d = 0.00	Basic Wholesale Price Index Number of cement & lime on the Base Date	RBI Bulletin	Ditto
Bitumen	e = 0.00	*1	HPCL or BPCL or IOCL	Ex-refinery price
Fuel/lubricant	f = 0.07	Average market price of high speed diesel (HSD) for Mumbai on the Base Date	Actual Mumbai markets	Rs 59.34 Per Litre, IOCL
Other materials [specify]	g = 0.00	[Bidder must specify]	[Bidder must specify]	[Bidder must specify]
Construction machinery	h = 0.08	Average Wholesale Price Index Number of Construction Machinery on the Base Date	RBI Bulletin	(refer to RBI Bulletin at http://www.bulletin.rbi.org.in/)
Total	1.00	-	-	

* 1: Basic rate of bitumen in Rupees per metric ton ex-refinery price including taxes of bitumen grade under consideration prevailing at the Base Date.

Note: The materials for which the RBI indices are not available, the indices of similar materials/items shall apply.



8990



Schedule of Price Adjustment Data. 8991

Table B. Foreign Currency Portion

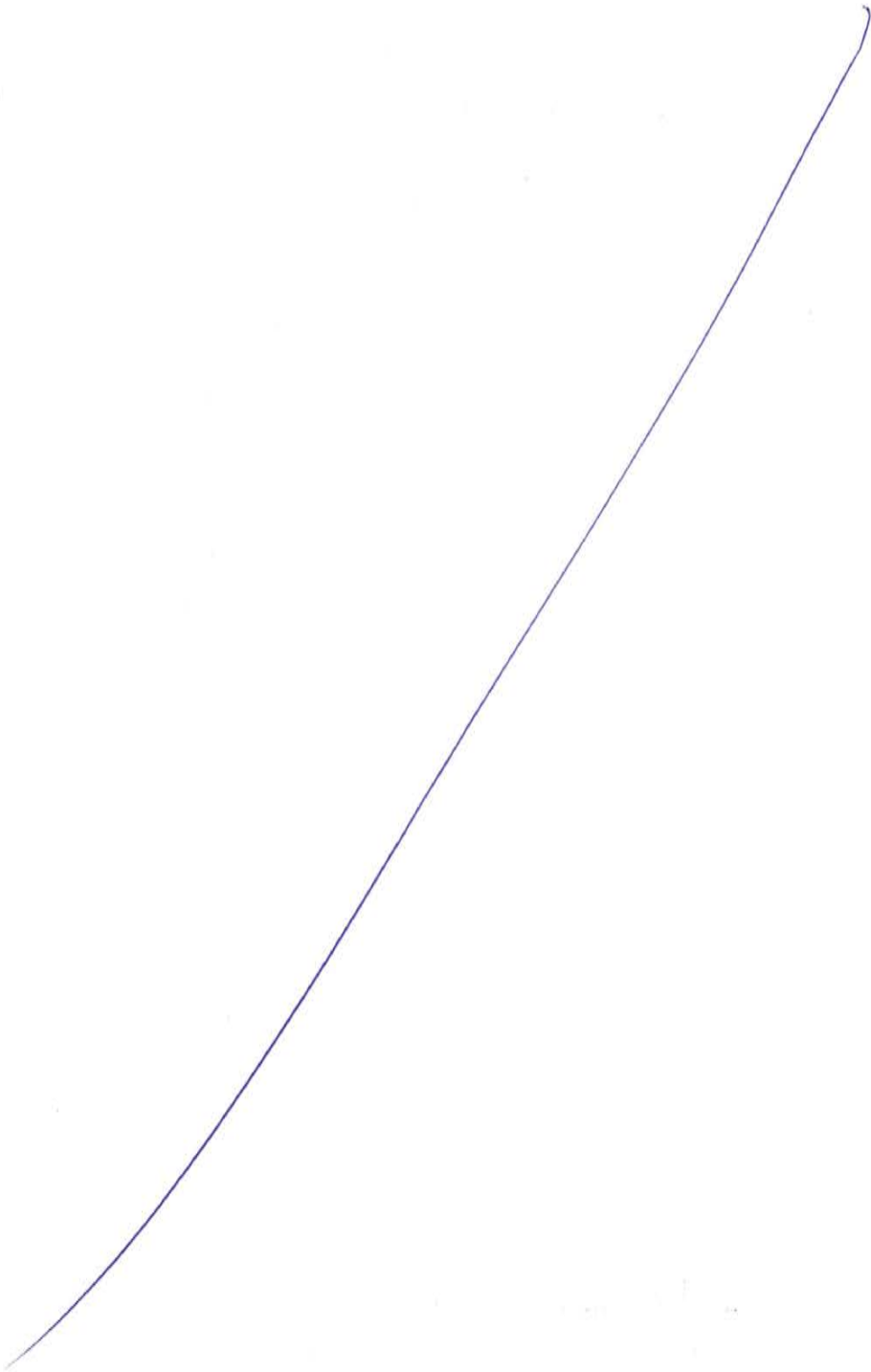
Currency: USD

(3) Materials on the Site: Structural steel shapes (Price Schedule No. 5, Item No. 502 and Price Schedule No. 7, Item No. 701)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.00	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.85	Material Steel Plate	Construction Price Book June 2017	134,000 JPY/T (For details, please refer "Attachment 3.1"
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.00	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [specify]	g = 0.00	Ditto	Ditto	Ditto
Construction machinery	h = 0.00	Ditto	Ditto	Ditto
Total	1.00	-	-	




8992



Schedule of Price Adjustment Data 8993

Table B. Foreign Currency Portion

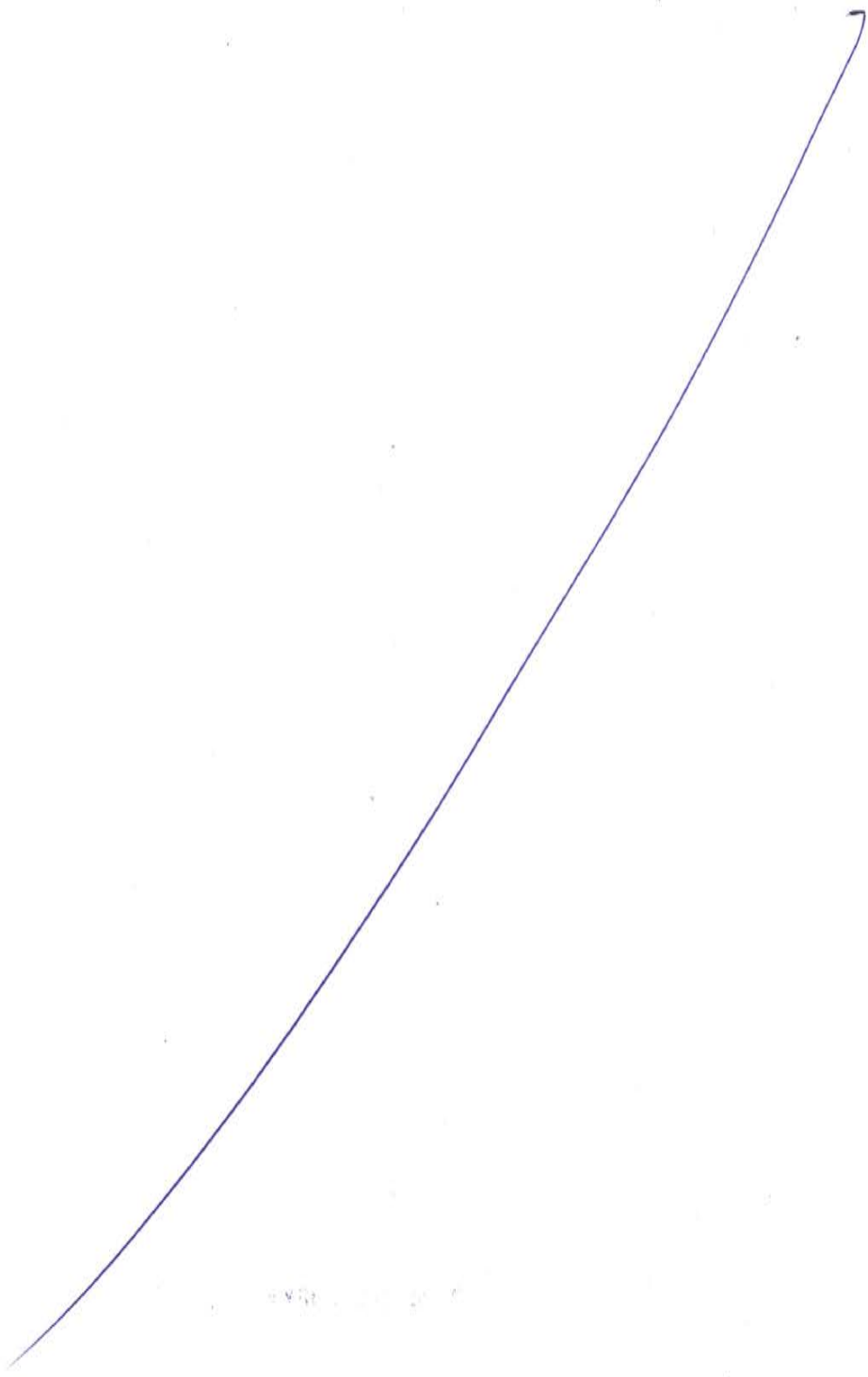
Currency: J. Yen

(3) Materials on the Site: Structural steel shapes (Price Schedule No. 5, Item No. 502 and Price Schedule No. 7, Item No. 701)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.00	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.85	Material Steel Plate	Construction Price Book June 2017	134,000 JPY/T (For details, please refer "Attachment 3.1"
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.00	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [specify]	g = 0.00	Ditto	Ditto	Ditto
Construction machinery	h = 0.00	Ditto	Ditto	Ditto
Total	1.00	-	-	



8994



Attachment 3.1

Proposed Schedule of Rates for Variation – 2

8/Steel materials selling price / extra (7) Monthly Construction Price Book / 2017 July

July / August Contract Steel Plates Selling Price

Below steel Plates selling price is Manufacturer's selling price to constant Clients, and as to the market (retail) price, refer to Page 21, 36~39.

A. Base Price at Main Land

(Unit: T) code060101.061105.061106 Steel Plates / Flat Steel Bar

Name	Standards (Base)	Size (mm)	Actual Market Prices (Main land / Okinawa Island)	Remarks
Thick Plates	N/A	12, 16, 18.9, 20, 25 x fixed dimension	115,000 / 116,000 JPY	Okinawa Price is FOB

A. As extra Base Price; code 061193

Steel Plates extra additional price compared to (Standard grade N/A)

- | | | |
|------------------------------|--------------------------|-----------------------------|
| 1) General Structure Purpose | | |
| SS400 | | + 1,300 JPY/T as additional |
| SS330 | | + 3,800 JPY/T as additional |
| SS490 | | +2,600 JPY/T as additional |
| 2) Welding Structure Purpose | | |
| SM400A | t<38mm | + 3,500 JPY/T as additional |
| SM400A | 38mm<t<100mm | + 9,500 JPY/T as additional |
| SM490 YA | 38mm<t<50mm | +19,000 JPY/T |

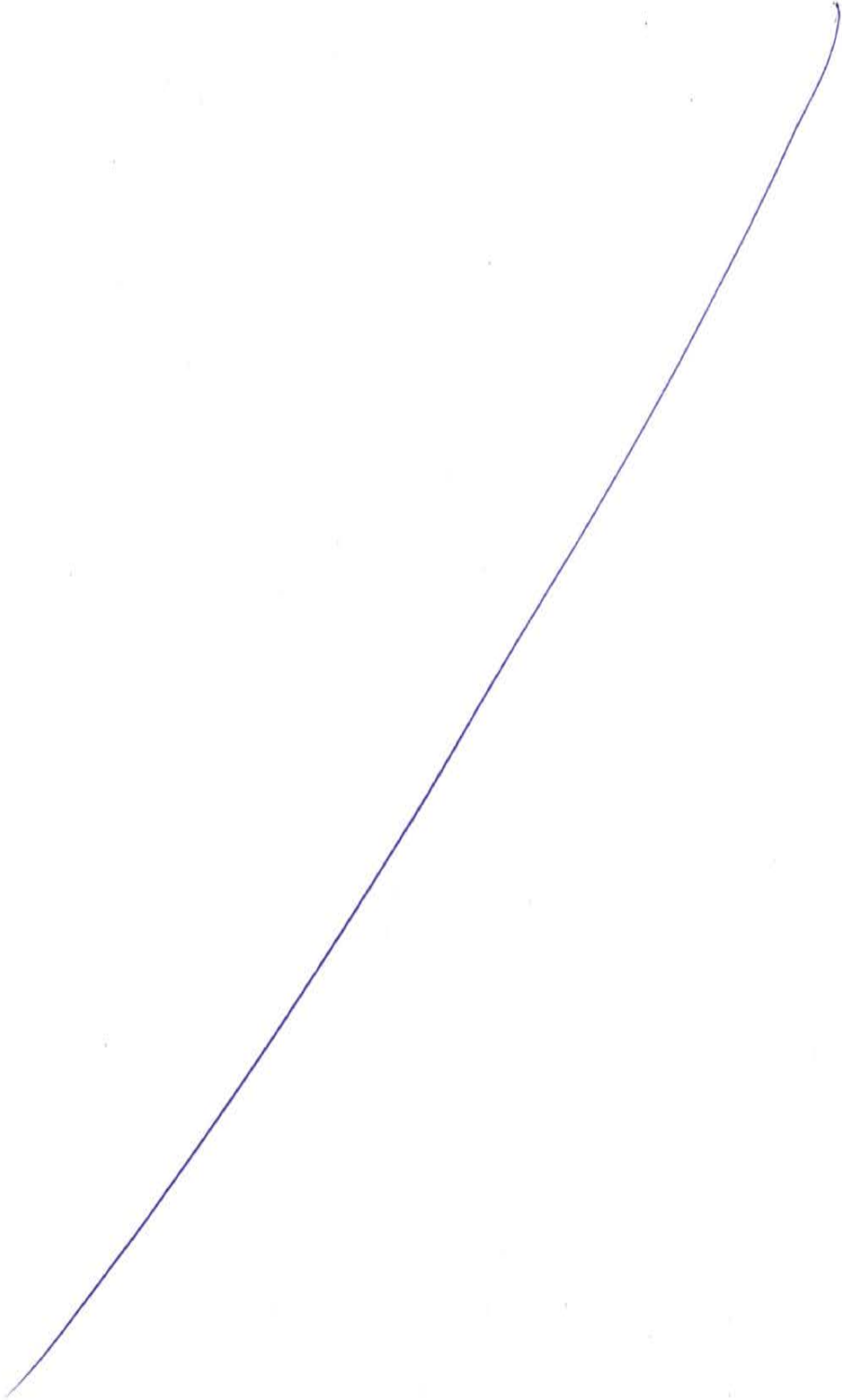
So, Proposed reference price is

(A) Base Price at Main land 115,000 JPY + (B) Extra Price 19,000 JPY = 134,000 JPY/t





8996



Schedule of Price Adjustment Data 8997

Table B. Foreign Currency Portion

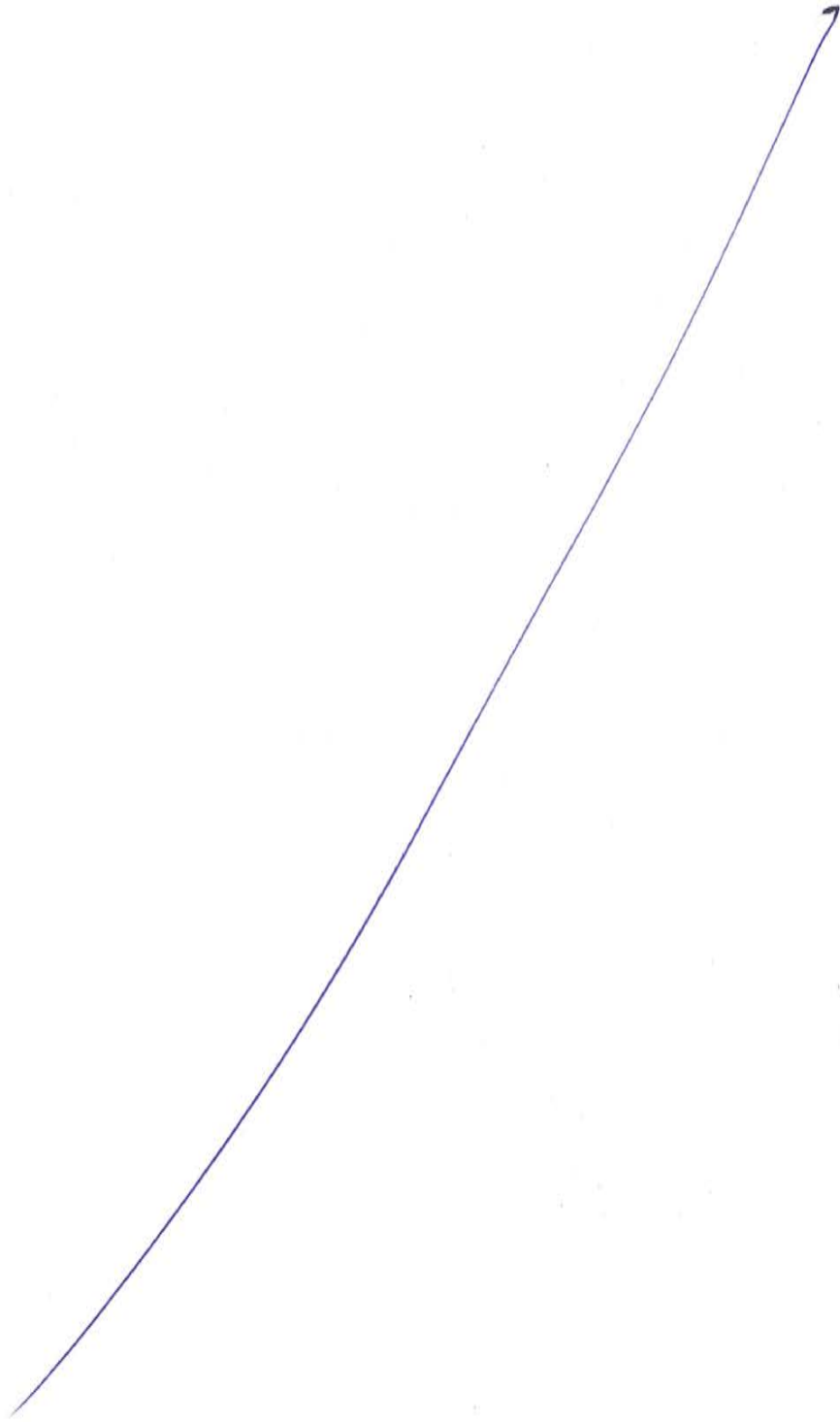
Currency: USD

(4) Materials on the Site: Pre-stressing cables (Price Schedule No. 5, Item No. 503 and Price Schedule No. 6, Item No. 602))

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.02	As per relevant Cost Index of Source Country (Japan / Korea / Philippines)	As per relevant Cost Index of Source Country (Japan / Korea / Philippines)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.78	Ditto	Ditto	Ditto
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.05	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [specify]	g = 0.00	Ditto	Ditto	Ditto
Construction machinery	h = 0.00	Ditto	Ditto	Ditto
Total	1.00	-	-	



8998



Schedule of Price Adjustment Data 8999

Table B. Foreign Currency Portion

Currency: USD

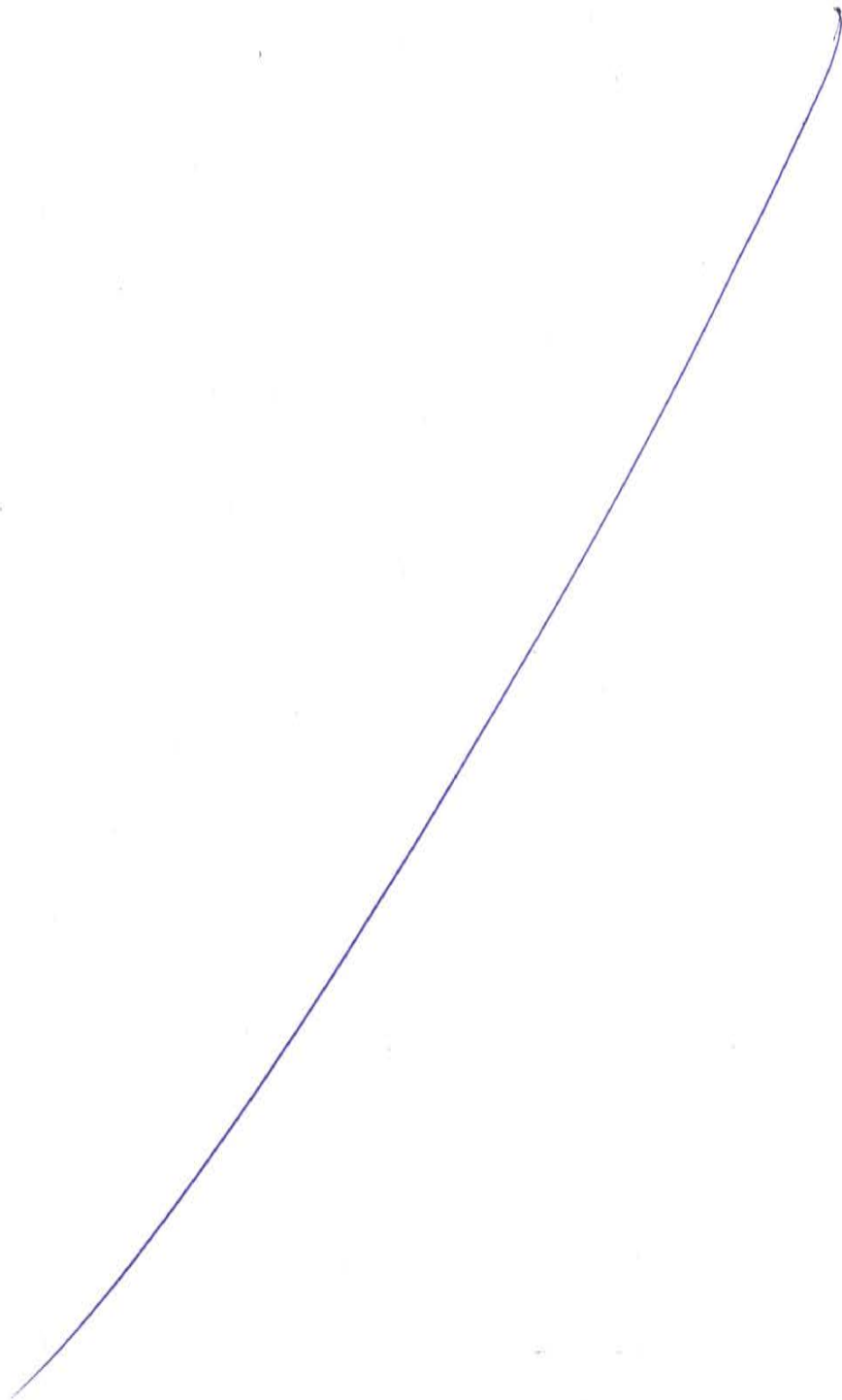
(5) Materials on the Site: Bridge bearings and expansion joints (Price Schedule No. 10, Item Nos. 1001 and 1002)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.02	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.78	Ditto	Ditto	Ditto
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.05	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [specify]	g = 0.00	Ditto	Ditto	Ditto
Construction machinery	h = 0.00	Ditto	Ditto	Ditto
Total	1.00	-	-	



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9000



Schedule of Price Adjustment Data

9001

Table B. Foreign Currency Portion

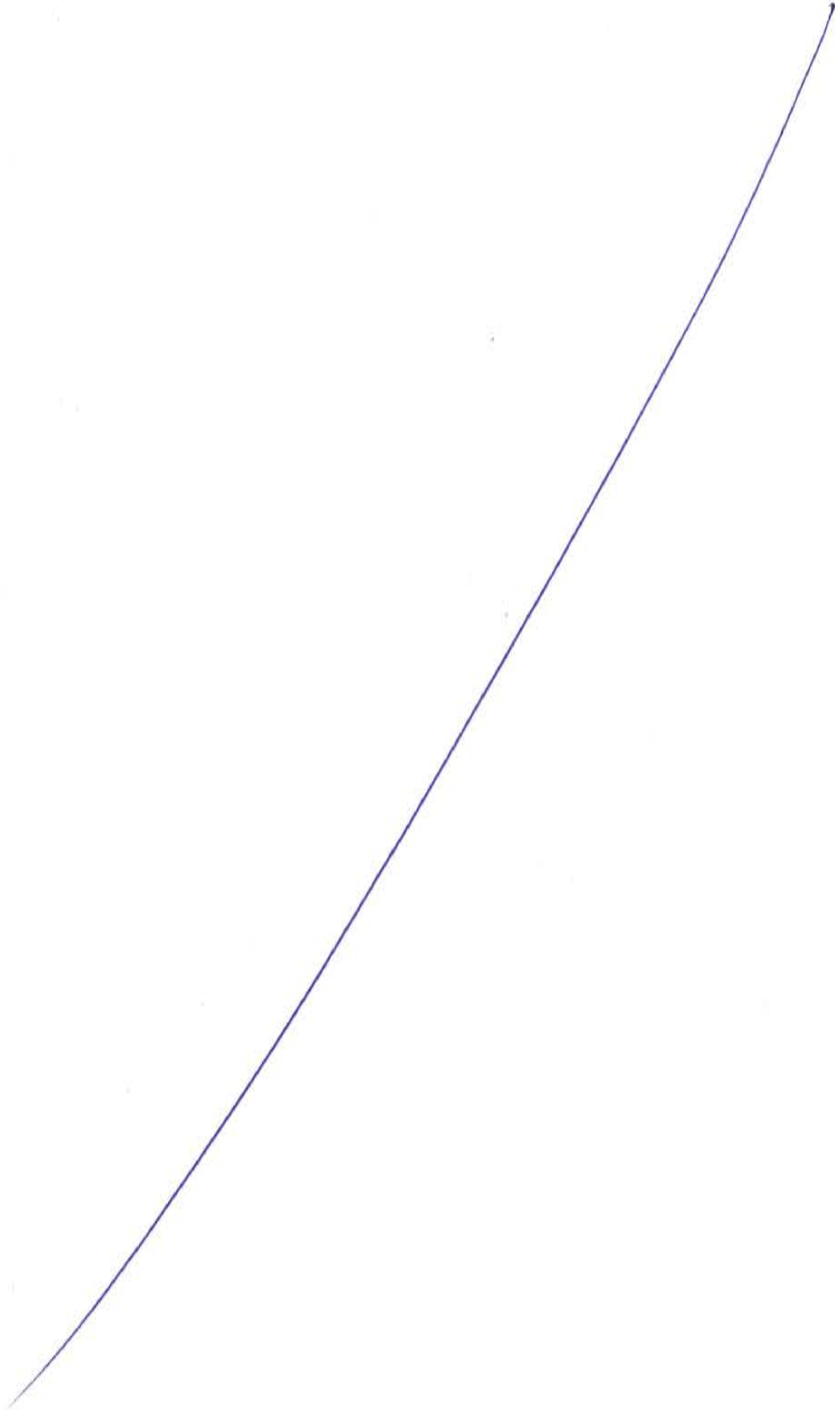
Currency: J. Yen

(5) Materials on the Site: Bridge bearings and expansion joints (Price Schedule No. 10, Item Nos. 1001 and 1002)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.02	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.78	Material Steel	Price book July 2017 published by Construction Price Organization; http://www.kensetu-bukka.or.jp	Details shall be submitted at the time of Contract Signing.
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.05	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [specify]	g = 0.00	Ditto	Ditto	Ditto
Construction machinery	h = 0.00	Ditto	Ditto	Ditto
Total	1.00	-	-	



9002



Schedule of Price Adjustment Data 9003

Table B. Foreign Currency Portion

Currency: USD

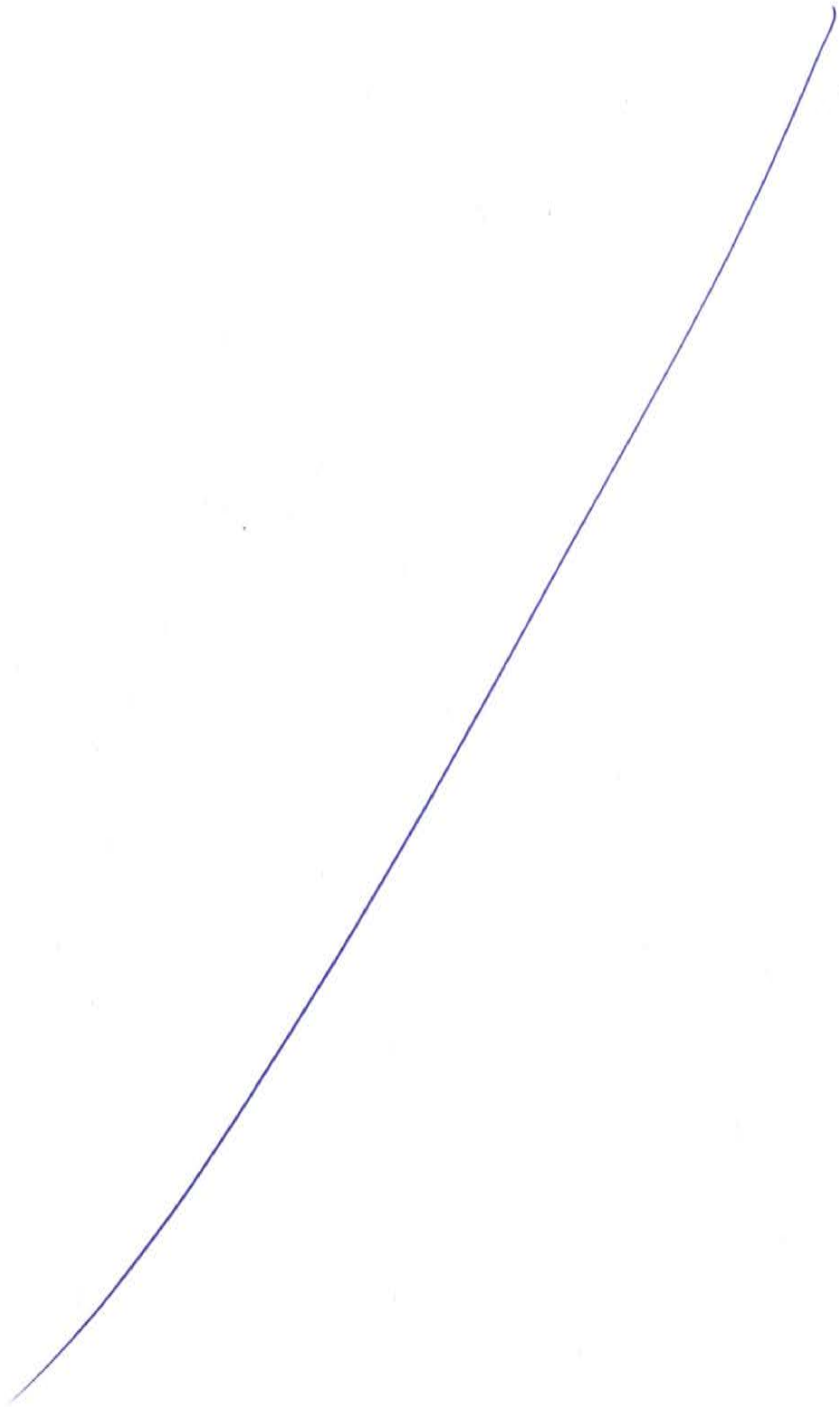
(12) Steel superstructure - Steel superstructure fabrication work (Price Schedule No. 7, Item Nos. 702 and 703)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.55	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.00	Ditto	Ditto	Ditto
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.15	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [Welding Rod]	g = 0.05	Ditto	Ditto	Ditto
Construction machinery	h = 0.10	Ditto	Ditto	Ditto
Total	1.00	-	-	



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9004



Schedule of Price Adjustment Data 9005

Table B. Foreign Currency Portion

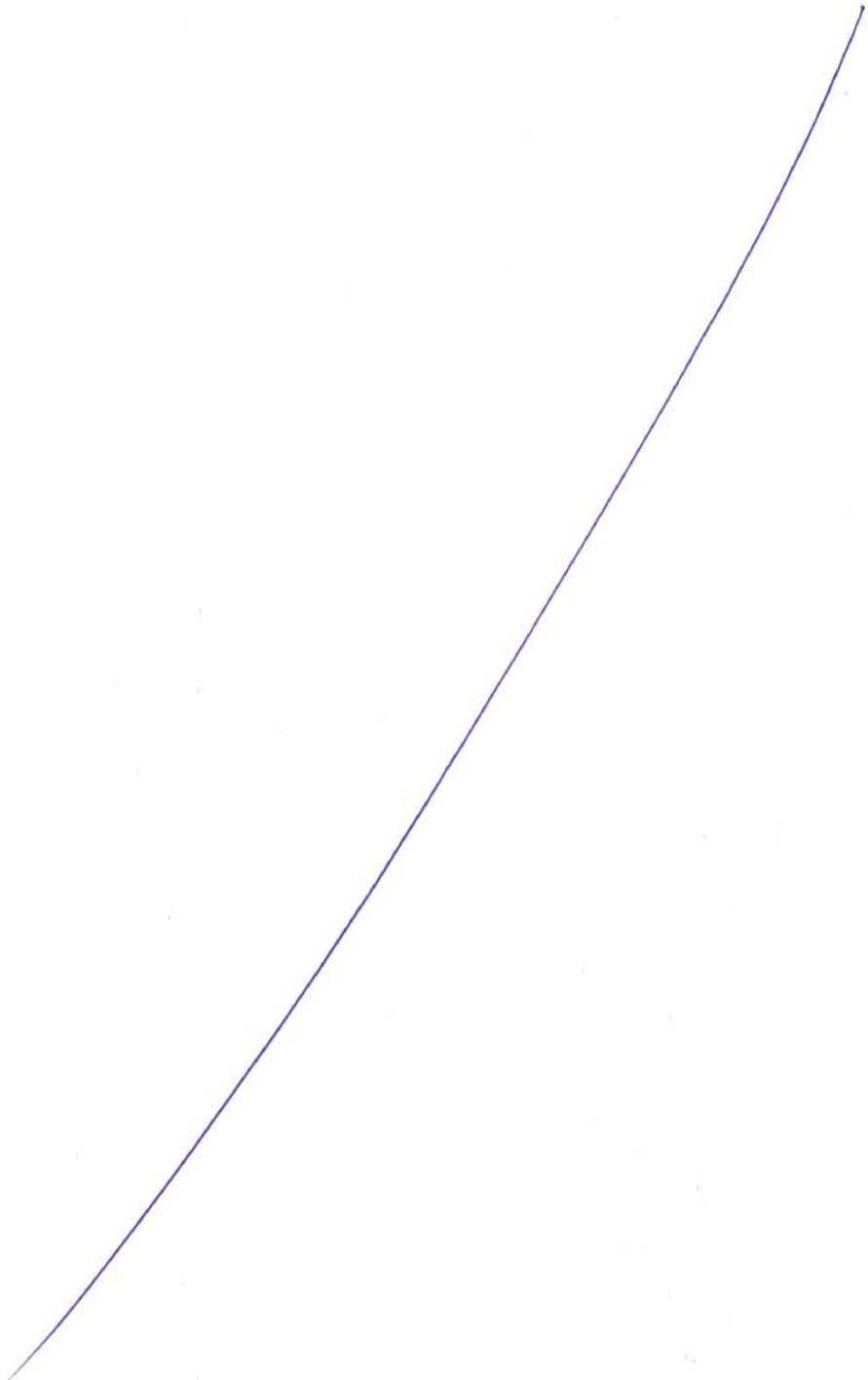
Currency: USD

(13) Steel superstructure - Steel superstructure transportation and erection work (Price Schedule No. 7, Item Nos. 704 and 705)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.60	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.00	Ditto	Ditto	Ditto
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.15	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [specify]	g = 0.00	Ditto	Ditto	Ditto
Construction machinery	h = 0.10	Ditto	Ditto	Ditto
Total	1.00	-	-	



100 9006



Schedule of Price Adjustment Data

9007

Table B. Foreign Currency Portion

Currency: USD

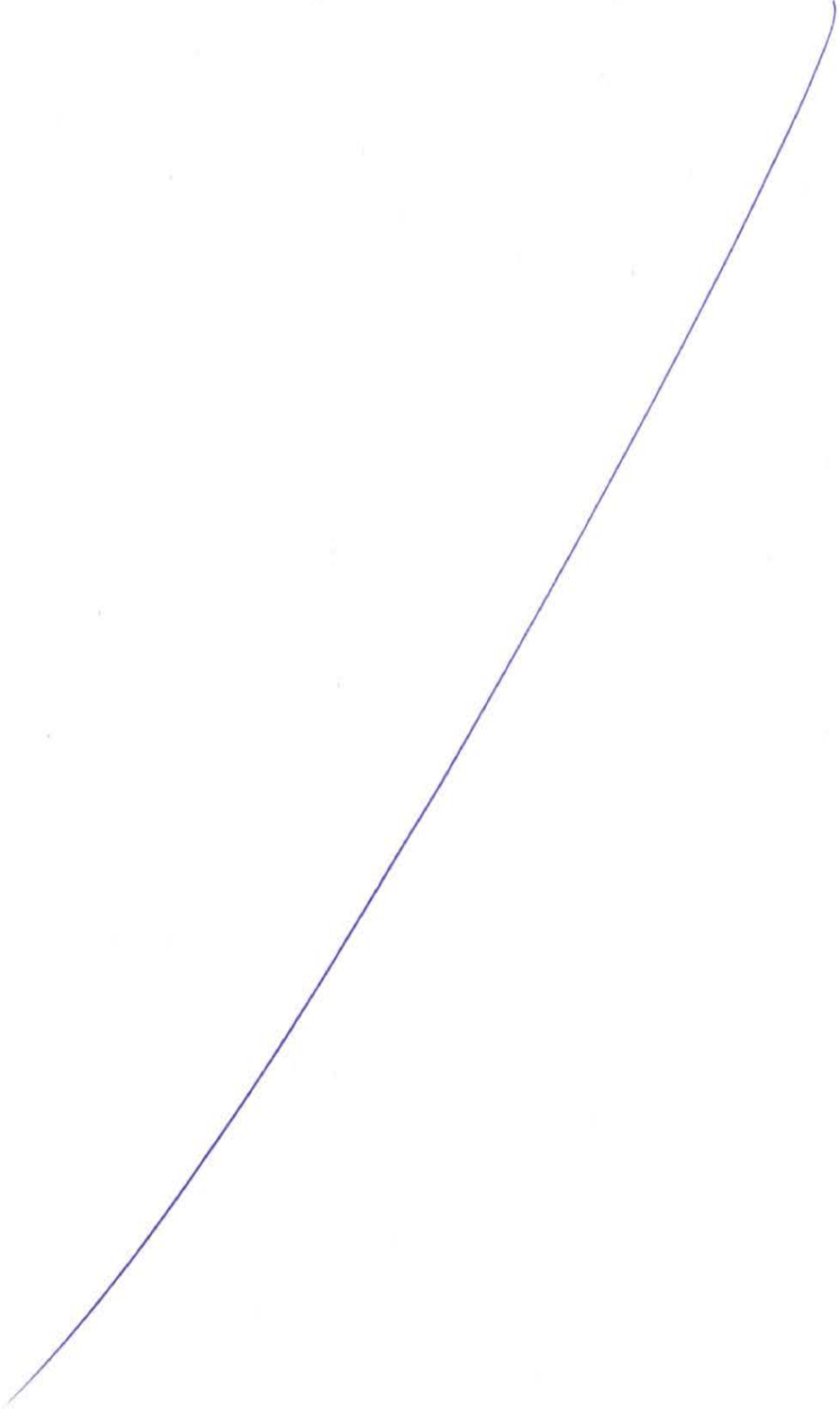
(14) Steel superstructure - Surface anti-corrosion coating (Price Schedule No. 7, Item Nos. 706 and 707)

(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.05	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.00	Ditto	Ditto	Ditto
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.10	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [Anti corrosion Paint]	g = 0.68	Ditto	Ditto	Ditto
Construction machinery	h = 0.02	Ditto	Ditto	Ditto
Total	1.00	-	-	



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9008



Schedule of Price Adjustment Data

9000

Table B. Foreign Currency Portion

Currency: J. Yen

(23) Miscellaneous items - Drainage facilities (Price Schedule No. 12, Item No. 1206)

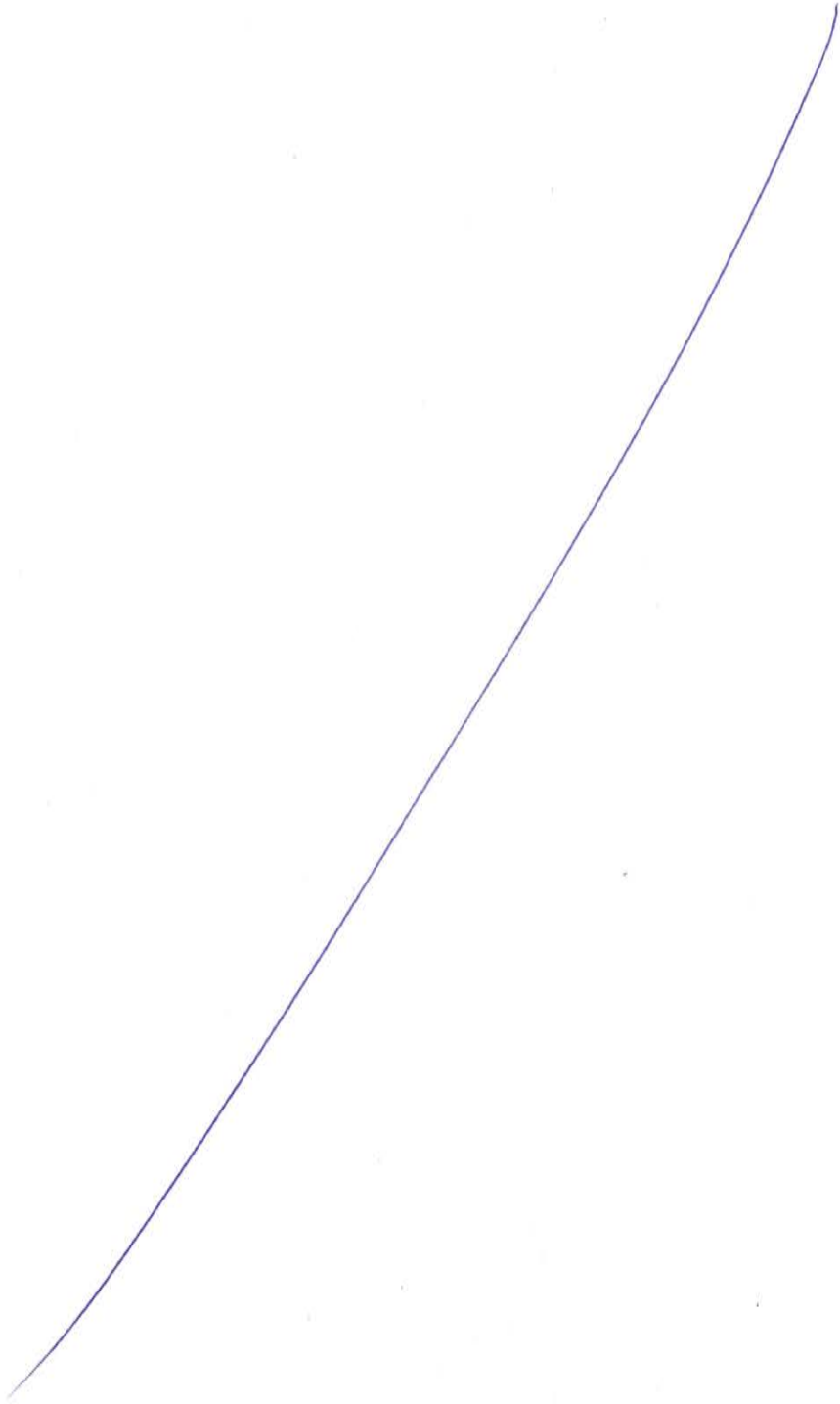
(i) Cost Elements	(ii) Bidder's Proposed Weighting	(iii) Description of Cost Index/Ref. Price	(iv) Source of Cost Index/Ref. Price	(v) Base Cost Index/Ref. Price as of Base Date
Non adjustable	a = 0.15			
Labour	b = 0.15	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	As per relevant Cost Index of Source Country (Japan / Korea / Philipinnes)	Details shall be submitted at the time of Contract Signing.
Steel	c = 0.60	Ditto	Ditto	Ditto
Cement	d = 0.00	Ditto	Ditto	Ditto
Bitumen	e = 0.00	Ditto	Ditto	Ditto
Fuel/lubricant	f = 0.05	Ditto	Ditto	Ditto
Bitumen	(Not applicable to Foreign Currency portion)			
Fuel/lubricant	(Not applicable to Foreign Currency portion)			
Other materials [specify]	g = 0.00	Ditto	Ditto	Ditto
Construction machinery	h = 0.05	Ditto	Ditto	Ditto
Total	1.00	-	-	



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9010



Amounts Payable for Respective Price Schedule

9011

Description of Price Schedule	Limit expected by Employer (% of Accepted Contract Amount)	Percentages Proposed by Bidder (% of (A) in Grand Summary)
Schedule No. 1 General Item	1.8 to 2.2	2.0
Schedule No. 2 Contractor Documents	1.2to 1.4	1.3
Schedule No. 3 Temporary work	11.4 to 14.0	13.1
Schedule No. 4 Construction of foundation piles and pilecaps for piers and abutments	9.9 to 12.1	11.0
Schedule No. 5 Construction of piers and abutments including pier caps	7.1 to 8.7	8.0
Schedule No. 6 Construction of Concrete superstructure	15.8 to 19.2	17.5
Schedule No. 7 Fabrication & erection of steel superstructure	32.2 to 39.4	36.0
Schedule No. 8 Construction of Earthwork	6.5 to 7.9	6.6
Schedule No. 9 Construction of dolphin and fenders.	1.7 to 2.1	1.8
Schedule No. 10 Fabrication and installation of bridge ancillaries.	1.4 to 1.6	1.5
Schedule No. 11 Construction of asphalt pavement.	0.5 to 0.7	0.6
Schedule No. 12 Fabrication and installation of miscellaneous items.	0.5 to 0.7	0.6
Total % of Schedules No 1 to 12 mentioned at (A) in Grand Summary	--	100

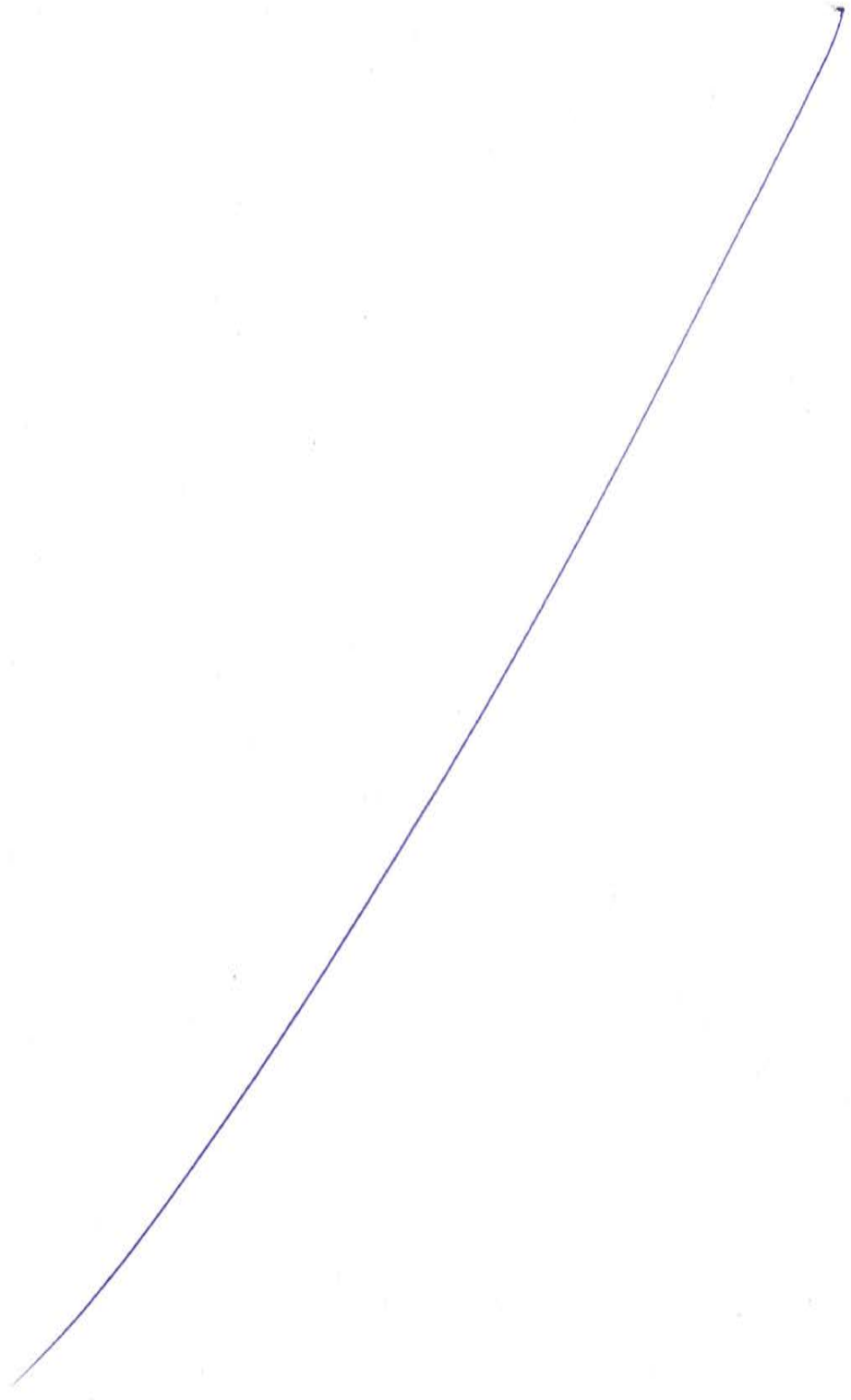
Note:

- (1) The above percentages are of the Accepted Contract Amount (or the Bid Price to be considered, at the time of Bid submission, equal to the Accepted Contract Amount) less the Provisional Sums.
- (2) Use exchange rates as of the Base Date.



9012

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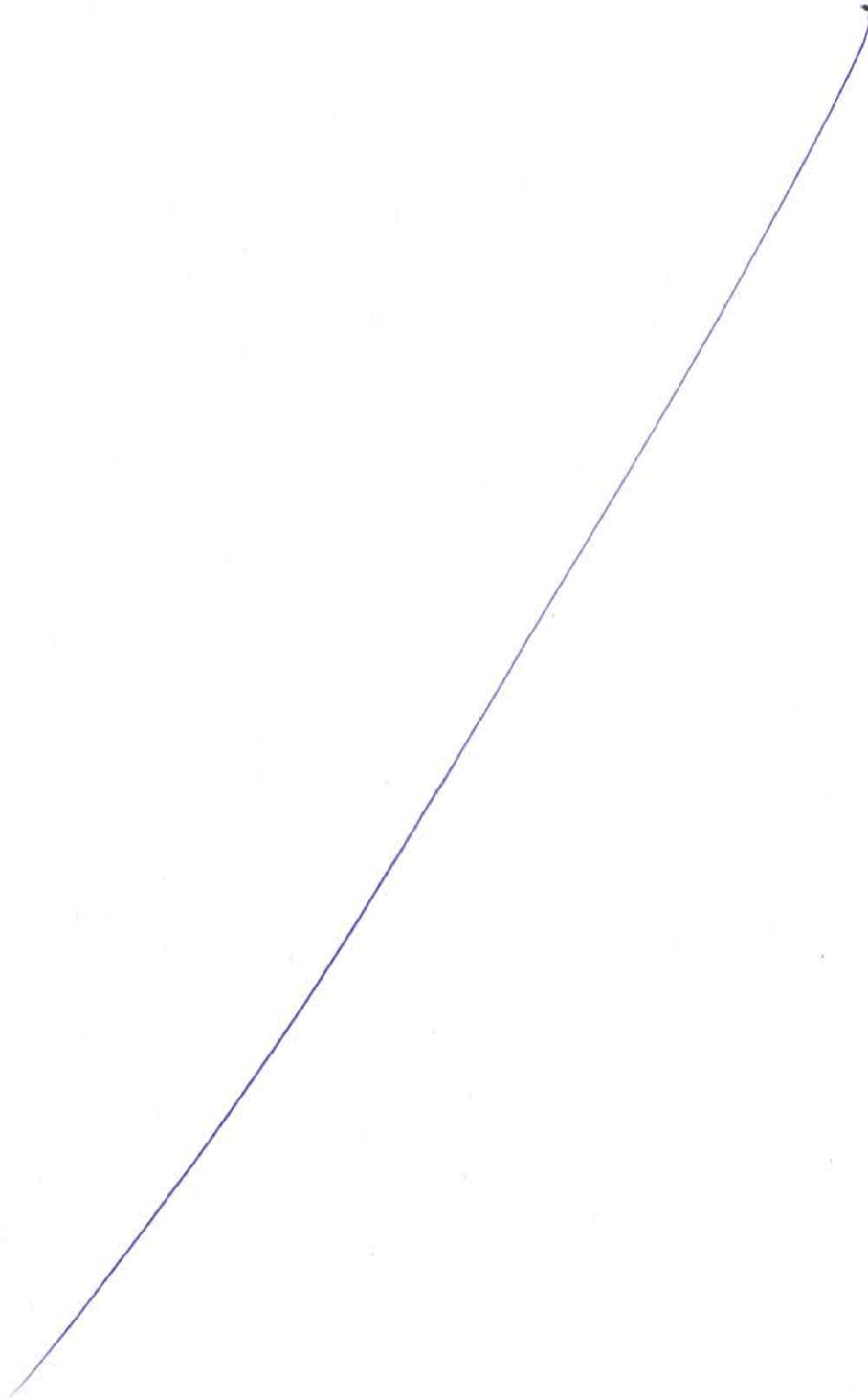


Schedule No. 1: General Items

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
101	Performance Security (Section VII. GC Sub-Clause 4.2)	Lump sum	Lot	205,436,630	-	-	-
102	Insurance for Works (Section VII GC Sub-Clause 18.2)	Lump sum	Lot	230,721,238	-	-	-
103	Insurance for Contractor's Equipment (Section VII GC Sub-Clause 18.2)	Lump sum	Lot	8,426,203	-	-	-
104	Insurance against Injury to Persons and Damage to Property (Section VII GC Sub-Clause 18.3)	Lump sum	Lot	61,290,019	-	-	-
105	Insurance for Contractor's Personnel (Section VII GC Sub-Clause 18.4)	Lump sum	Lot	Included in overhead costs	Included in overhead costs	Included in overhead costs	Included in overhead costs
106	Insurance for Design Liability (Section VIII, PC Sub-Clause 18.5)	Lump sum	Lot	57,997,466	-	-	-
107	Automobile Liability Insurance (Section VIII, PC Sub-Clause 18.6)	Lump sum	Lot	-	-	-	-
108	Allow for DNP Services (Section VII GC Clause 11)	Lump sum	Lot	16,663,557	-	-	-

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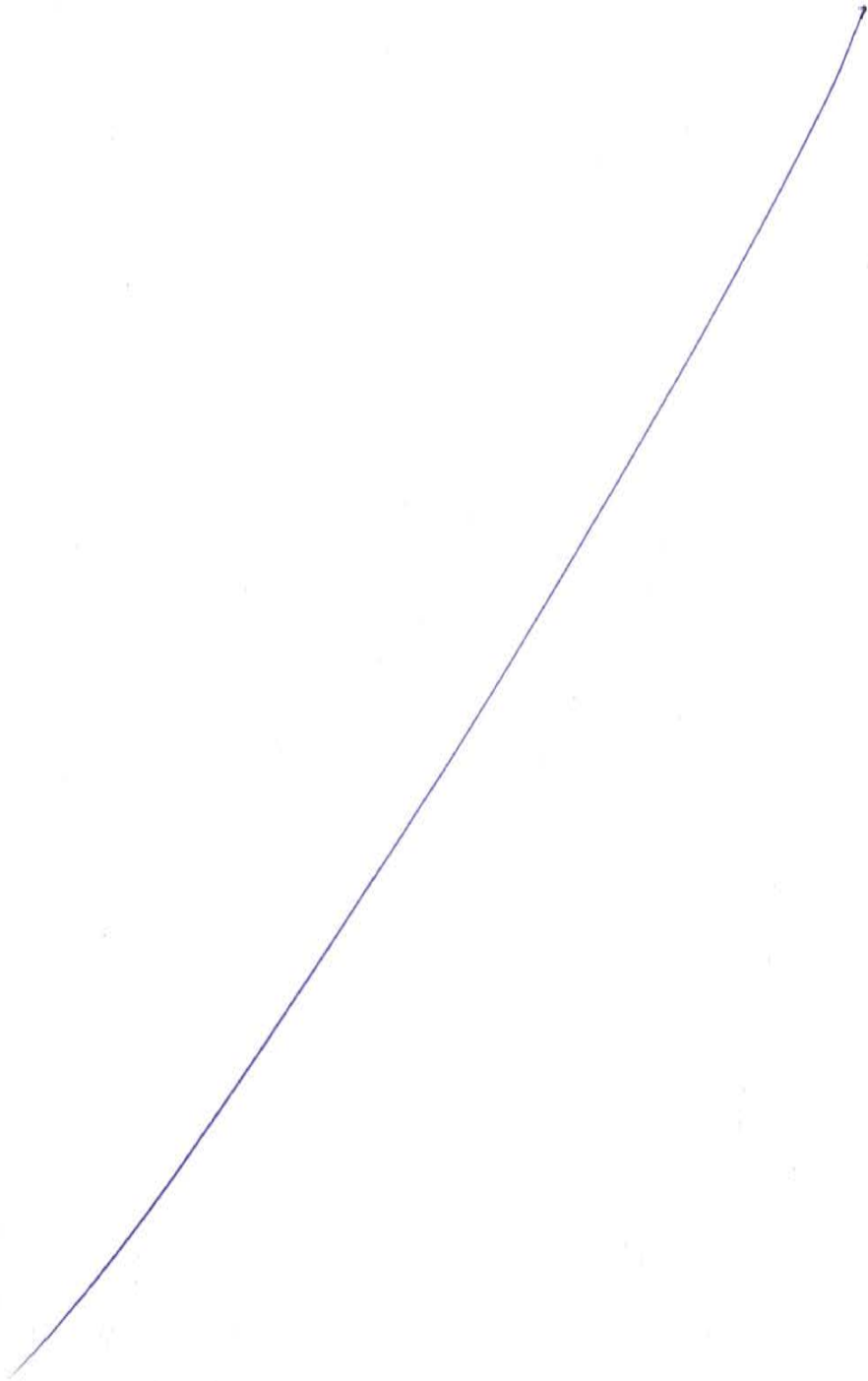
109	Provision and maintenance of health and safety measures during the Time for Completion (Section VII GC Sub-Clause 6.7)	Lump sum	Lot	302,790,089	-	-	-
110	Provision (construction) of office facilities with furniture and office equipment for the Employer and unfurnished office for the Engineer/General Consultants (Section VII GC Sub-Clause 6.6)	Lump sum	Lot	33,754,175	-	-	-
111	Maintenance of above office facilities for the Employer during the Time for Completion (Section VII GC Sub-Clause 6.6)	Lump sum	Lot	37,493,004	-	-	-
112	Removal/clearing of above office facilities for the Employer and for the Engineer (Section VII GC Sub-Clause 6.6)	Lump sum	Lot	1,012,625	-	-	-
113	Provision and removal of diversion roads (Section VII GC Sub-Clause 4.15)	Lump sum	Lot	38,556,129	-	-	-
114	Operation and maintenance of diversion roads during the Time for Completion (Section VII GC Sub-Clause 4.15)	Lump sum	Lot	9,639,032	-	-	-
115	Clearing from Site and Works after Taking-Over (Section VII GC Sub-Clause 4.23)	Lump sum	Lot	38,556,052	-	-	-
116	Supply of vehicles, boats, etc. for the Employer (Section VII GC Sub-Clause 6.6)	Lump sum	Lot	50,637,798	-	-	-



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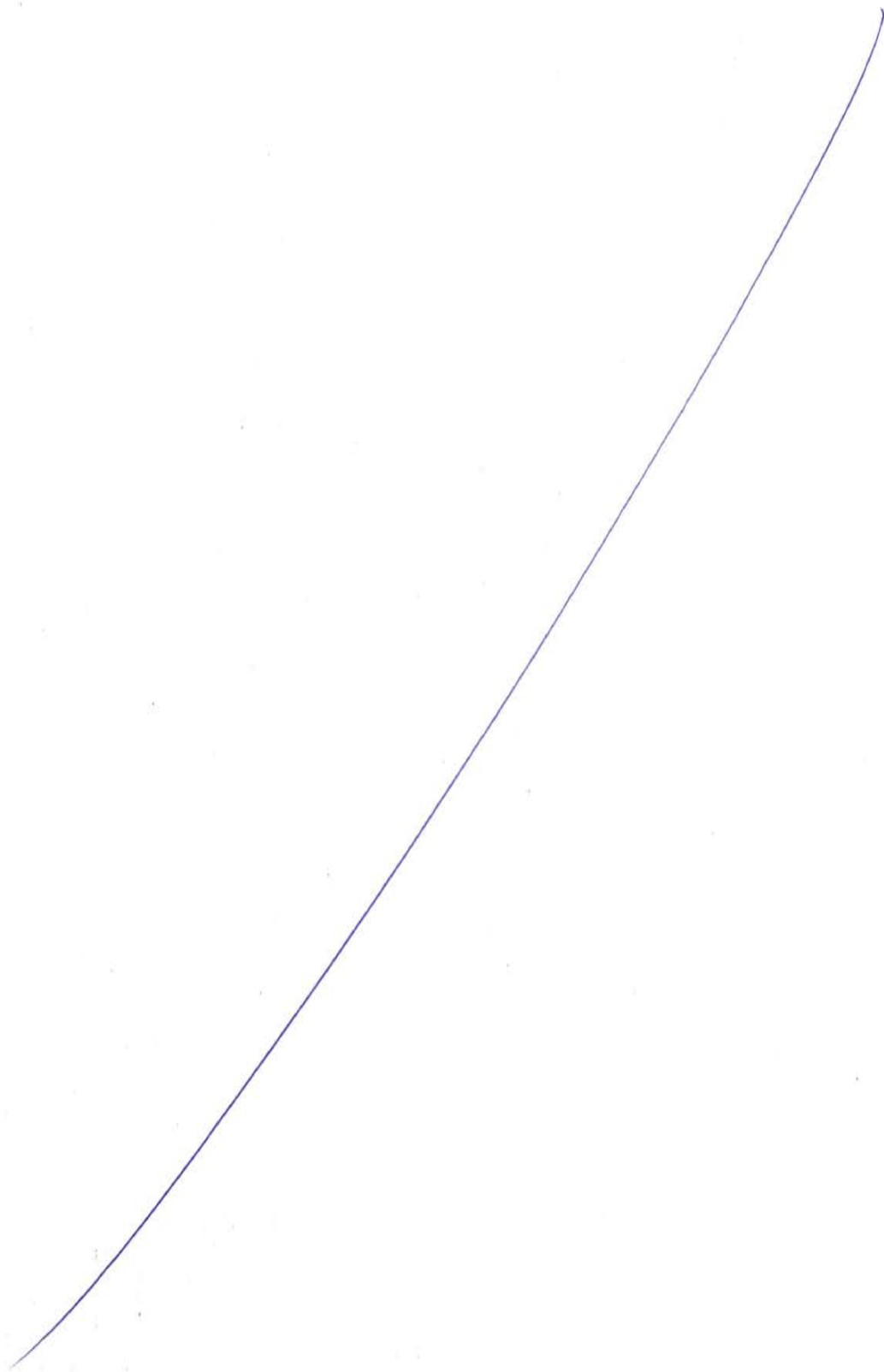
117	Operation and maintenance of above vehicles, boats, etc. for the Employer during the Time for Completion (Section VII GC Sub-Clause 6.6)	Lump sum	Lot	-	-	-	-
Total for Price Schedule No. 1 (To be carried forward to Grand Summary)		1,092,974,019	-	-	-		



9017

1010

9018



Schedule No. 2: Contractor's Documents

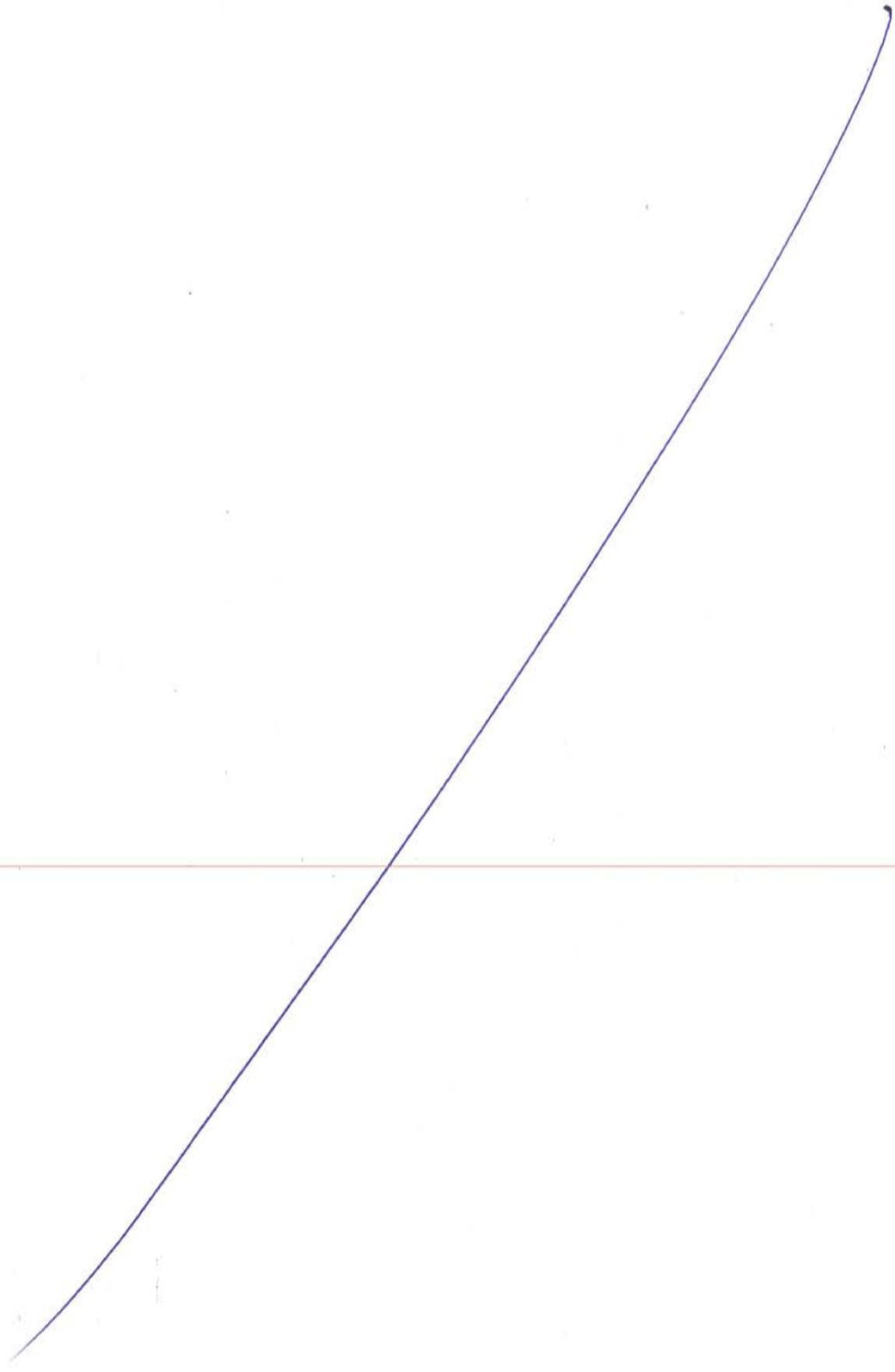
Note: "Contractor's Documents" shall cover all related activities including, but not limited to, the printing, explanation meetings with the Engineer, submission of related materials such as copies of codes and standards.

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
201	Technical Design documents of highway and interchange alignments	Lump sum	Lot	12,875,595	-	-	-
202	Aesthetic Strategy Report Desktop Study for Wind Tunnel Test.	Lump sum	Lot	9,656,696	-	-	-
203	Technical Design documents of earthwork	Lump sum	Lot	3,218,899	-	-	-
204	Technical Design documents of foundation	Lump sum	Lot	70,815,774	-	-	-
205	Technical Design documents of substructure	Lump sum	Lot	149,438,149	-	-	-
206	Technical Design documents of superstructure (concrete)	Lump sum	Lot	149,438,149	-	-	-
207	Technical Design documents of superstructure (steel)	Lump sum	Lot	55,273,953	-	-	-
208	Technical Design documents of dolphins and Fenders	Lump sum	Lot	16,094,494	-	-	-
209	Technical Design documents of pavement	Lump sum	Lot	6,437,798	-	-	-
210	Technical Design documents of bridge ancillaries	Lump sum	Lot	17,382,775	-	-	-



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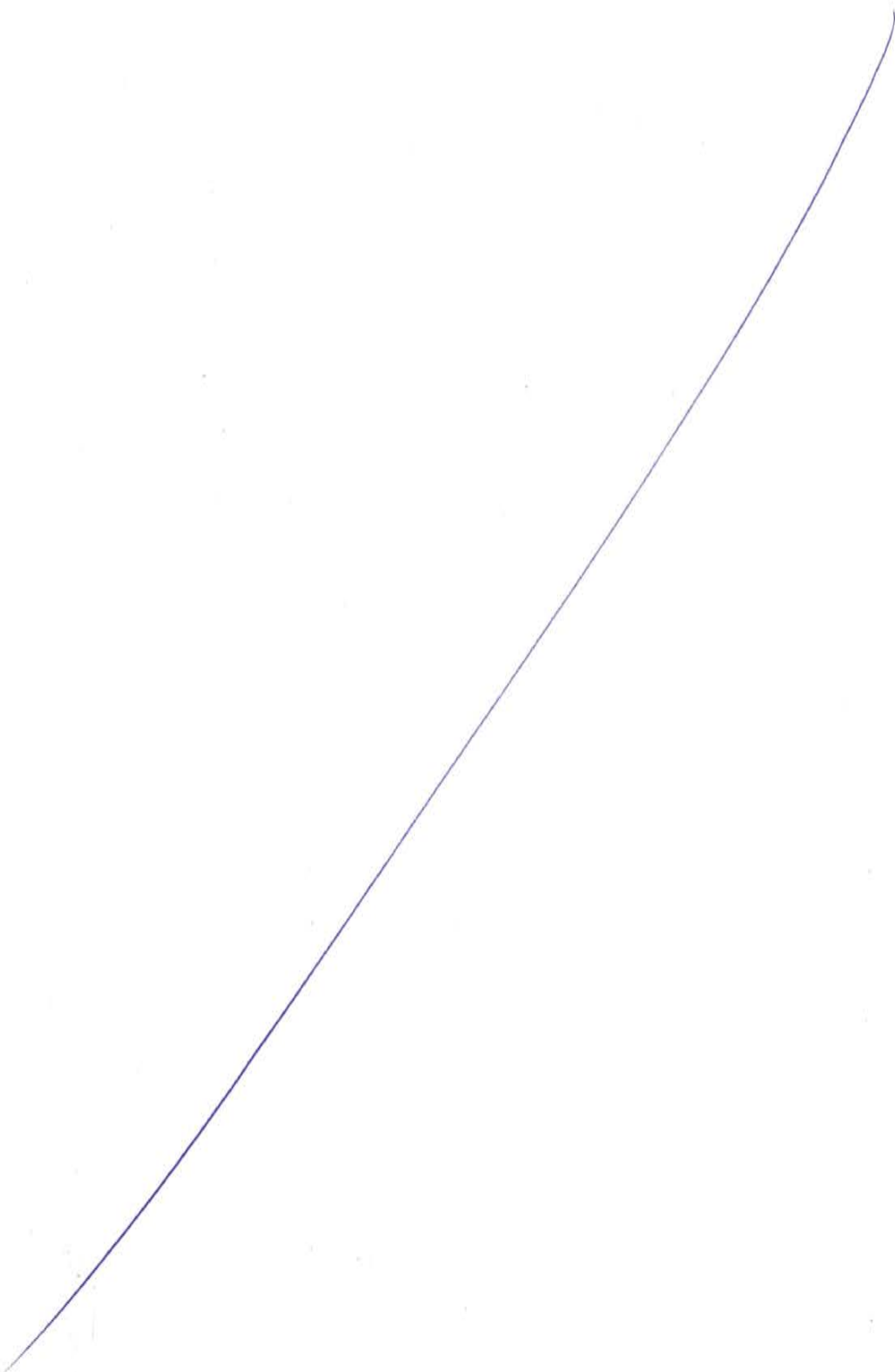
Package-2

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211	Construction Design documents of earthwork	Lump sum	Lot	3,218,899	-	-	-
212	Construction Design documents of	Lump sum	Lot	9,656,696	-	-	-
213	Construction Design documents of substructure	Lump sum	Lot	3,218,899	-	-	-
214	Construction Design documents of superstructure (concrete)	Lump sum	Lot	6,437,798	-	-	-
215	Construction Design documents of superstructure (steel)	Lump sum	Lot	121,023,948	-	-	-
216	Construction Design documents of dolphins	Lump sum	Lot	3,218,899	-	-	-
217	Construction Design documents of pavement	Lump sum	Lot	3,218,899	-	-	-
218	Construction Design documents of bridge ancillaries	Lump sum	Lot	10,940,340	-	-	-
219	Preparation and supply of as-built documents (GC Sub-Clause 5.6)	Lump sum	Lot	17,382,775	-	-	-
220	Preparation and supply of Maintenance Manual (Section VII GC Sub-Clause 5.7)	Lump sum	Lot	22,163,070	-	-	-
221	Submission of samples (GC Sub-Clause 7.2)	Lump sum	Lot	9,660,304	-	-	-
222	Tests	Lump sum	Lot	9,660,304	-	-	-
Total for Price Schedule No. 2 (To be carried forward to Grand Summary)				710,433,112			



9021



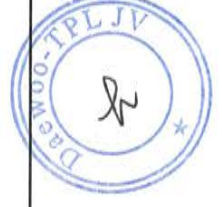
Schedule No. 3: Temporary Works

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
301	Construction of temporary jetties including materials	Lump sum	Lot	3,450,971,093	-	-	-
302	Casting yards preparation, maintenance and clearing after Contract completion	Lump sum	Lot	3,586,187,454	-	-	-
303	Removal of temporary jetties	Lump sum	Lot	111,821,276	-	-	-
304	Salvage value to Contractor (negative cost)	Lump sum	Lot	-	-	-	-
305	Removal of casting yards	Lump sum	Lot	5,000,000	-	-	-
306	Clearing of casting yards	Lump sum	Lot	5,000,000	-	-	-
Total for Price Schedule No. 3 (To be carried forward to Grand Summary)				7,158,979,824	-	-	-

Country of Origin Declaration (ITB 14.1)

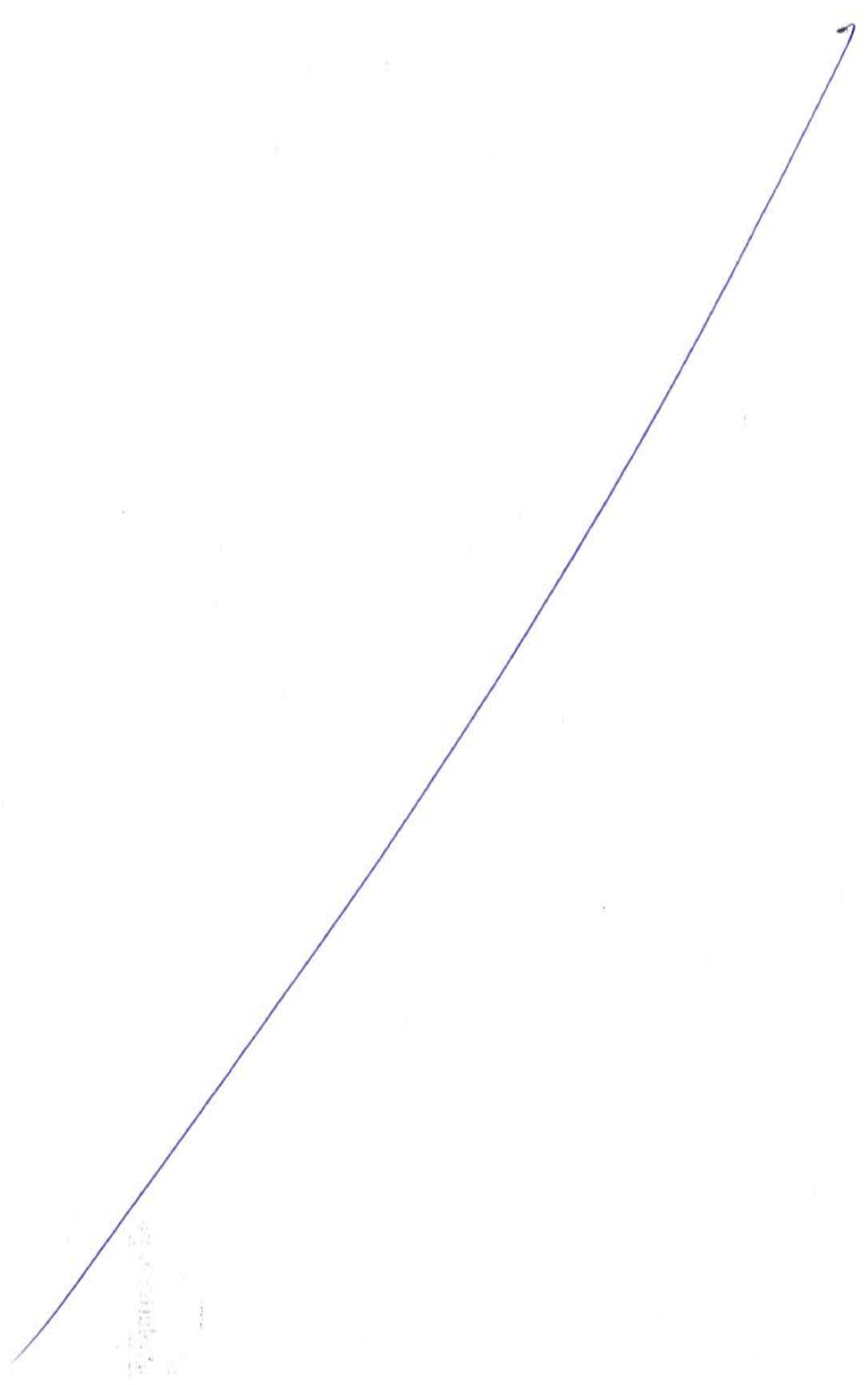
Item No.	Materia/Description	Code
1	Structural Steel	IS CODE
2	Reinforcement Steel	IRC CODE
3	Cement	IS CODE

9023



100

9024



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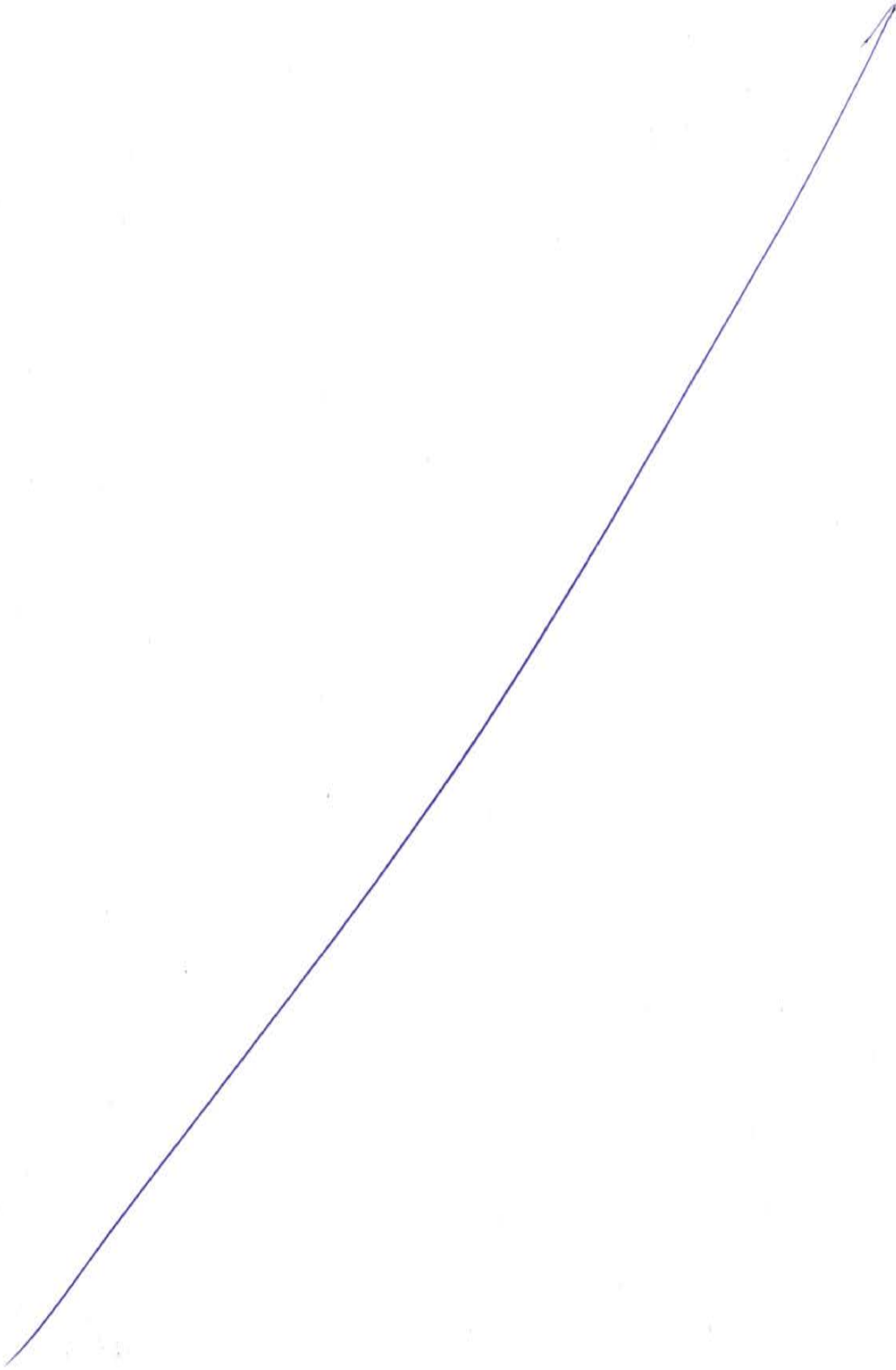
49

Schedule No. 4: Construction of Foundation Piles and Pile Caps for Piers and Abutments

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
401	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): steel reinforcing bars	Lump sum	Lot	1,036,252,285	-	-	-
402	Ditto: steel liner pipes	Lump sum	Lot	443,676,415	-	-	-
403	Construction of Open foundation/Spread foundation/Raft foundation or bridge pier foundation piles and pile caps including geotechnical investigation	Lump sum	Lot	4,475,497,364	-	-	-
404	Loading tests and test reports on bridge pier foundation piles	Lump sum	Lot	55,931,040	-	-	-
405	Construction of abutment foundation piles and pile caps including geotechnical investigation	Lump sum	Lot	-	-	-	-
406	Loading tests and test reports on abutment foundation piles	Lump sum	Lot	-	-	-	-
407	Construction of electrical platform pier foundation piles and pile caps including geotechnical investigation	Lump sum	Lot	-	-	-	-
408	Loading tests and test reports on electrical platform pier foundation piles	Lump sum	Lot	-	-	-	-



9025





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409	Construction of emergency rescue station platform pier foundation piles and pile cap including geotechnical investigation	Lump sum	Lot	-	-	-
410	Loading tests and test reports on emergency rescue station platform pier foundation piles	Lump sum	Lot	-	-	-
	emergency rescue station platform pier foundation piles	Sum		-	-	-
Total for Price Schedule No. 4 (To be carried forward to Grand Summary)				6,011,357,104	-	-

Note: For the payment of items for variation in Open foundation/Spread foundation/Raft foundation etc. shall be paid as per PWD, DSR for the respective year for Raigad Region.

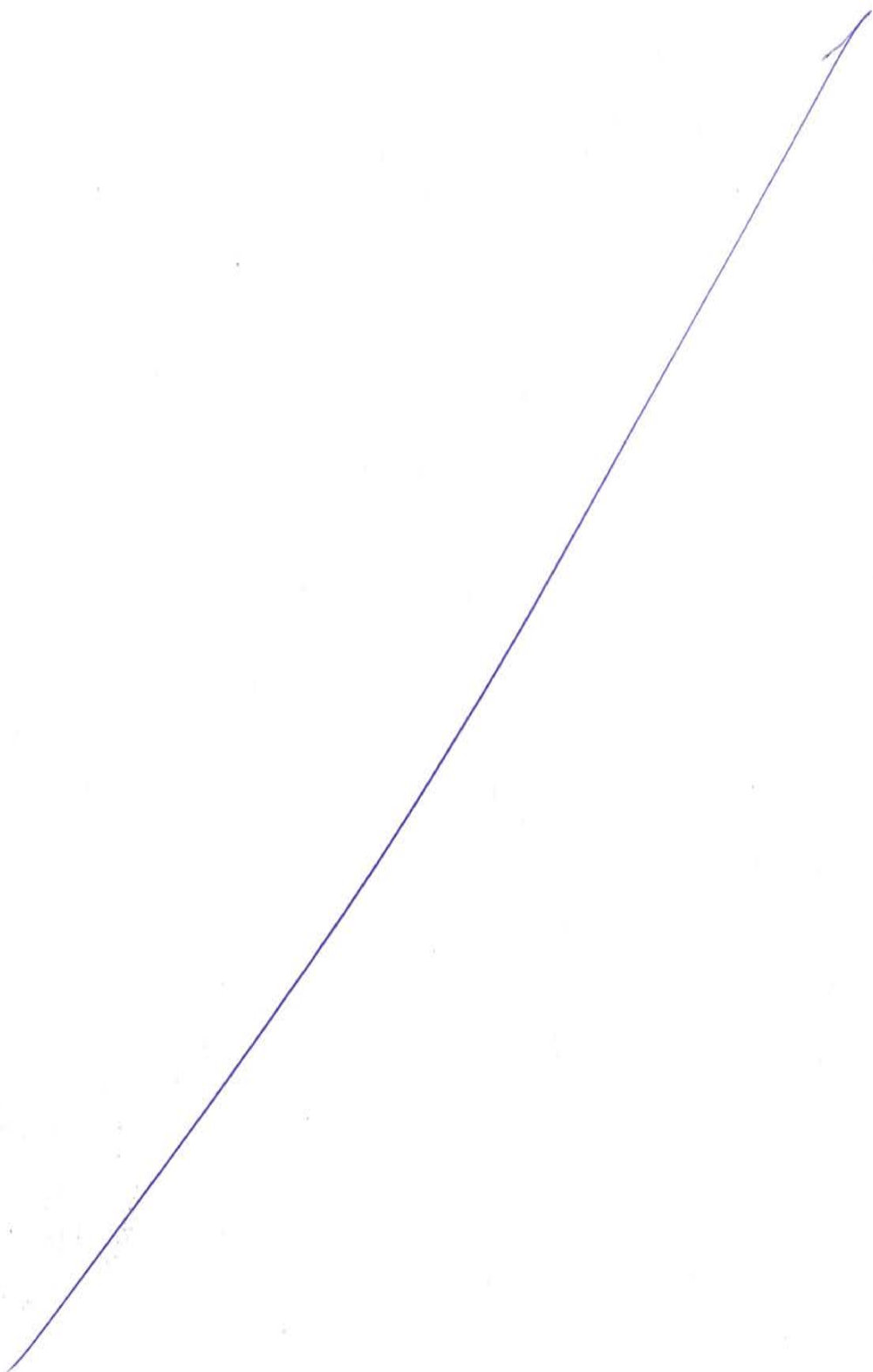
Country of Origin Declaration (ITB 14.1)

Item No.	Material/Description	Code	Country of Origin
1	Structural Steel	IS CODE	INDIA
2	Reinforcement Steel	IRC CODE	INDIA
3	Cement	IS CODE	INDIA



9027

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Schedule No. 5: Construction of Piers and Abutments including Pier Caps

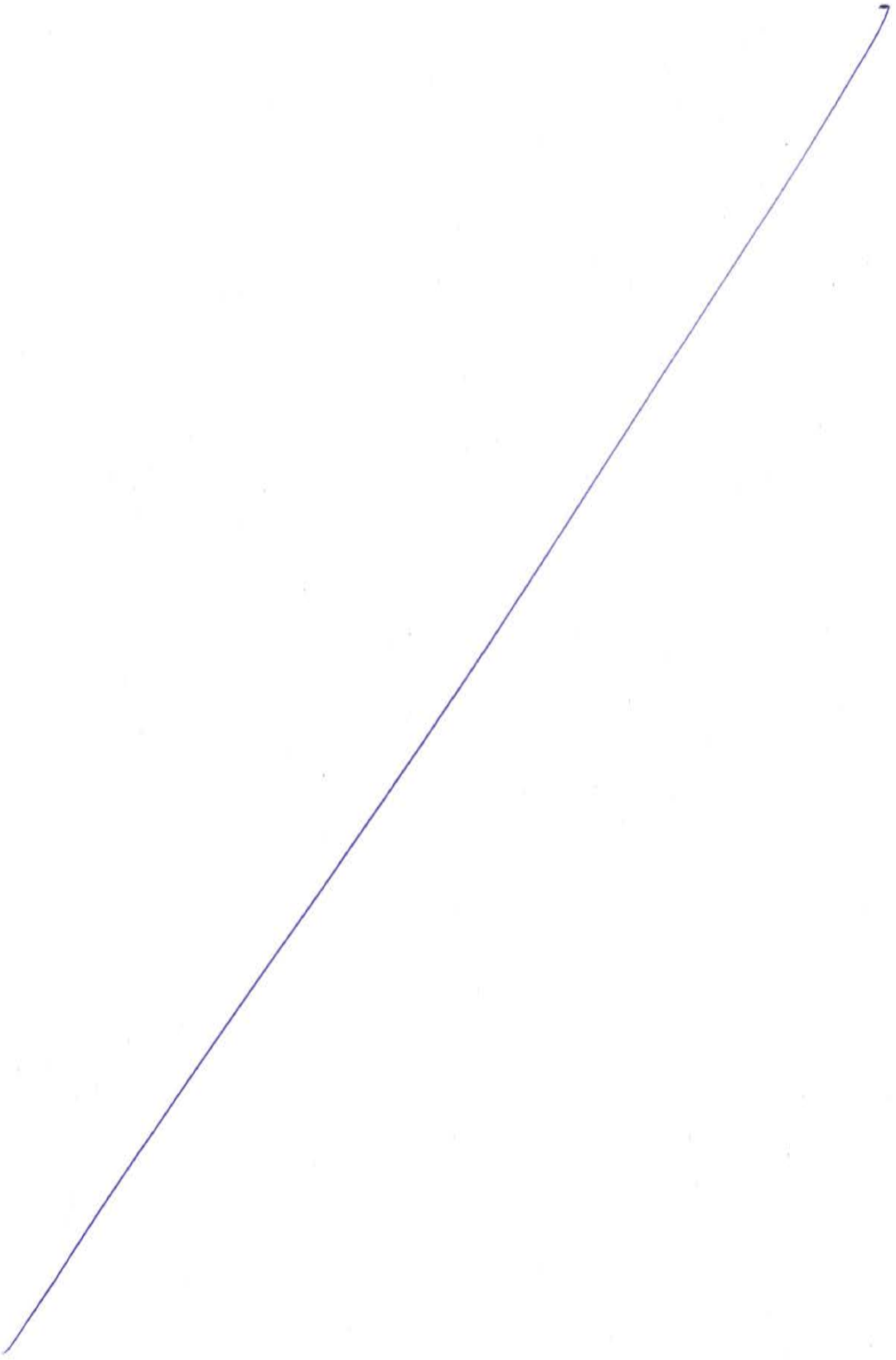
Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
501	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): steel reinforcing bars	Lump sum	Lot	856,767,661	-	-	-
502	Ditto: structural steel shapes	Lump sum	Lot	-	-	-	-
503	Ditto: pre-stressing cables	Lump sum	Lot	-	-	-	-
504	Construction of cast-in-situ concrete bridge pier caps	Lump sum	Lot	3,403,341,192	-	-	-
505	Construction of cast-in-situ concrete abutment caps	Lump sum	Lot	-	-	-	-
506	Construction of cast-in-situ concrete electrical platform pier caps	Lump sum	Lot	67,123,771	-	-	-
507	Construction of cast-in-situ concrete emergency rescue station platform pier caps	Lump sum	Lot	27,037,079	-	-	-
508	Construction of cast-in-situ concrete bridge pier structures and pier cap	Lump sum	Lot	-	-	-	-
509	Construction of cast-in-situ concrete abutment structures	Lump sum	Lot	17,626,373	-	-	-
510	Construction of cast-in-situ concrete electrical platform piers and pier caps	Lump sum	Lot	-	-	-	-

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Mumbai Trans Harbour Link Project
Package-2

TATA PROJECTS
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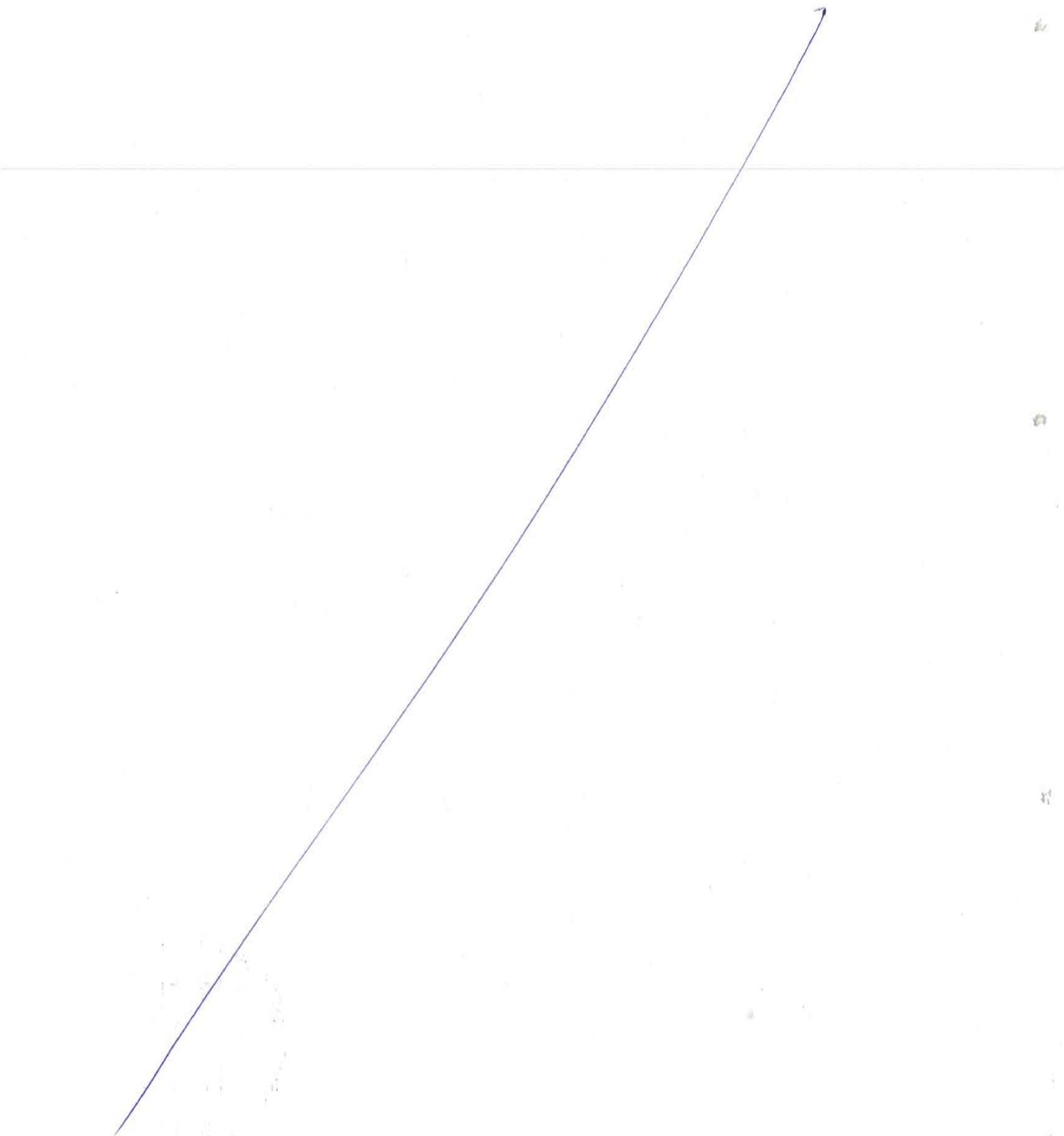
511	Construction of cast-in-situ concrete emergency rescue station platform piers	Lump sum	Lot	-	-	-
512	Construction of earthwork (backfill, compaction, etc.) and other works for abutments	Lump sum	Lot	-	-	-
Total for Price Schedule No. 5 (To be carried forward to Grand Summary)				4,371,896,075	-	-

Country of Origin Declaration (ITB 14.1)

Item No.	Material/Description	Code	Country of Origin
1	Structural Steel	IS CODE	INDIA
2	Reinforcement Steel	IRC CODE	INDIA
3	Cement	IS CODE	INDIA



9031



Schedule No. 6: Construction of Concrete Superstructure

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
601	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): steel reinforcing bars	Lump sum	Lot	1,222,181,196	-	-	-
602	Ditto: pre-stressing cables	Lump sum	Lot	1,389,289,512	-	692,339,485	-
603	Fabrication of precast concrete structural elements for bridges	Lump sum	Lot	2,601,795,604	-	-	-
604	Transportation and erection of precast concrete structural elements for bridges	Lump sum	Lot	3,912,532,509	-	-	-
605	Construction of cast-in-situ concrete bridge structures	Lump sum	Lot	-	-	-	-
606	Construction of cast-in-situ concrete electrical platform structures	Lump sum	Lot	14,310,337	-	-	-
607	Construction of cast-in-situ/precast concrete emergency rescue station structures	Lump sum	Lot	23,241,286	-	-	-
Total for Price Schedule No. 6 (To be carried forward to Grand Summary)				9,163,350,443	-	692,339,485	-

Country of Origin Declaration (ITB 14.1)

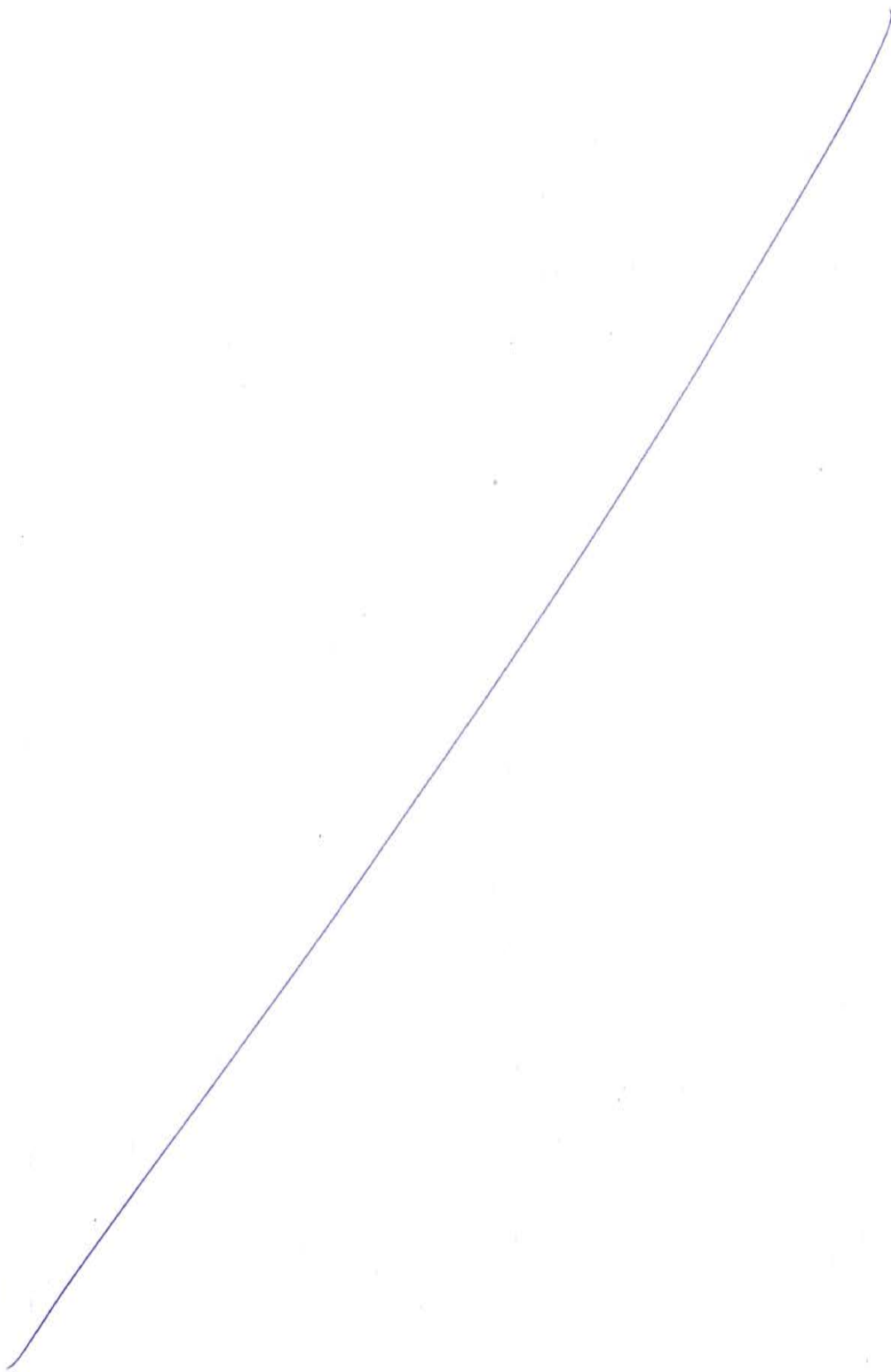
Item No.	Material/Description	Code	Country of Origin
1	Pre-Stressing cables	IRC CODE	JAPAN, INDIA
2	Reinforcement Steels	IRC CODE	INDIA
3	Cement	IS CODE	INDIA

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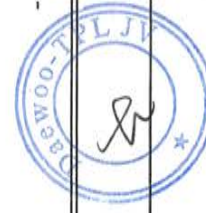


Schedule No. 7: Fabrication and Erection of Steel Superstructure

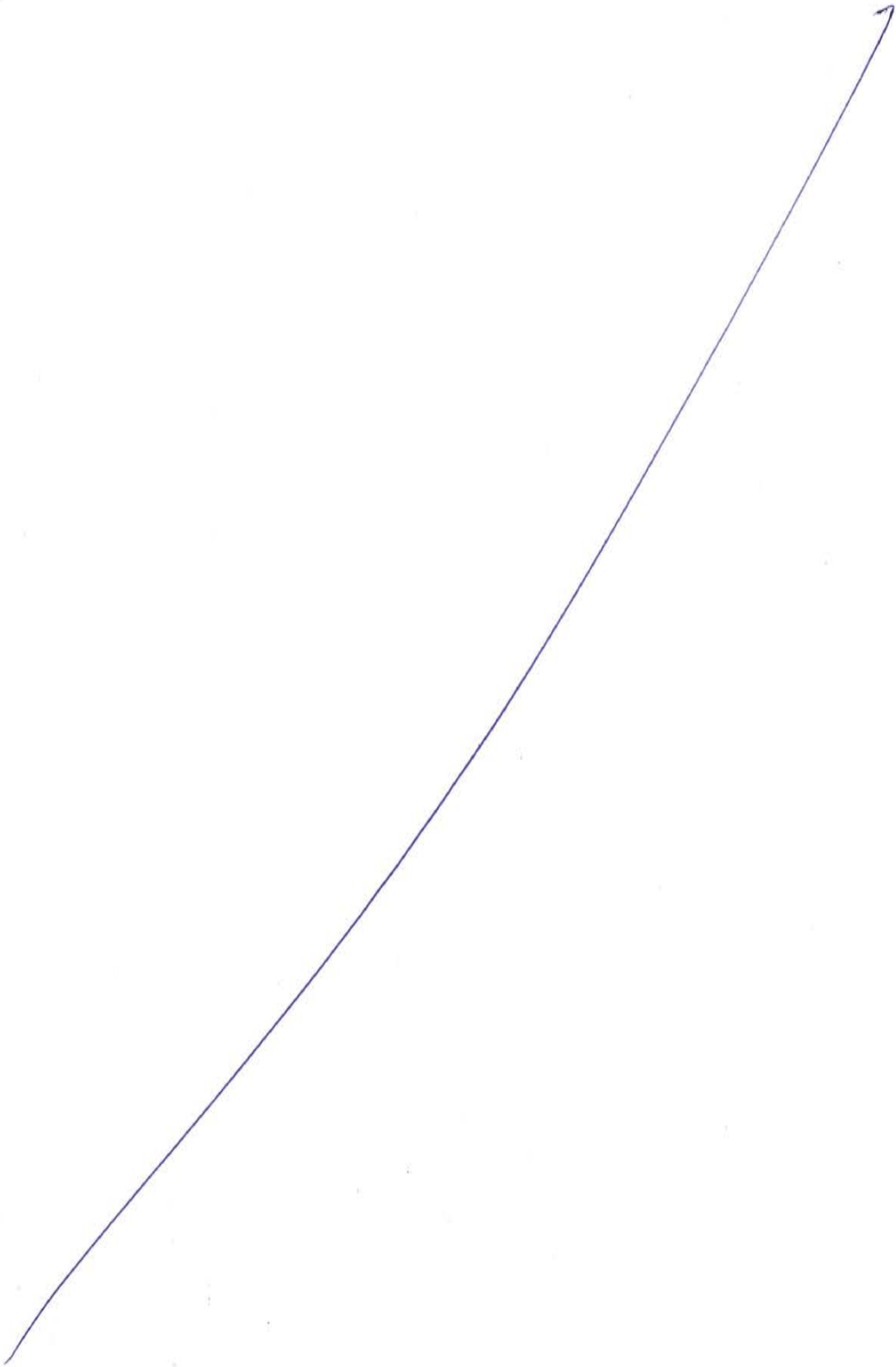
Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
701	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): structural steel materials	Lump sum	Lot	725,783,778	68,914,532	8,791,674,222	-
702	Fabrication of steel structural elements for bridges	Lump sum	Lot	483,855,852	44,841,127	4,216,836,716	-
703	Fabrication of steel structural elements for others	Lump sum	Lot	-	-	-	-
704	Transportation to and erection at the Site of fabricated steel structural elements for bridges	Lump sum	Lot	1,160,694,522	32,995,280	-	-
705	Transportation to and erection at the Site of fabricated steel structural elements for others	Lump sum	Lot	-	-	-	-
706	Surface anti-corrosion coating of erected steel structure for bridges	Lump sum	Lot	86,082,994	3,685,187	-	-
707	Surface anti-corrosion coating of erected steel structure for others	Lump sum	Lot	-	-	-	-
Total for Price Schedule No. 7 (To be carried forward to Grand Summary)				2,456,417,146	150,436,127	13,008,510,939	-

Country of Origin Declaration (ITB 14.1)

Item No.	Materia/Description	Code	Country of Origin
1	Steel Plates	JIS	Japan, Korea
2	Paint	JIS	Japan, Norway, India
3	Steel Structural elements for bridge	JRA	Japan, Thailand, Vietnam



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Schedule No. 8: Construction of Earthworks

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
801	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): steel reinforcing bars for retaining walls, etc.	Lump sum	Lot	275,666,223	-	-	-
802	Construction of reinforced concrete retaining walls	Lump sum	Lot	2,453,616,793	-	-	-
803	Construction of earthwork (fill, compaction, etc.)	Lump sum	Lot	877,531,247	-	-	-
Total for Price Schedule No. 8 (To be carried forward to Grand Summary)				3,606,814,262	-	-	-

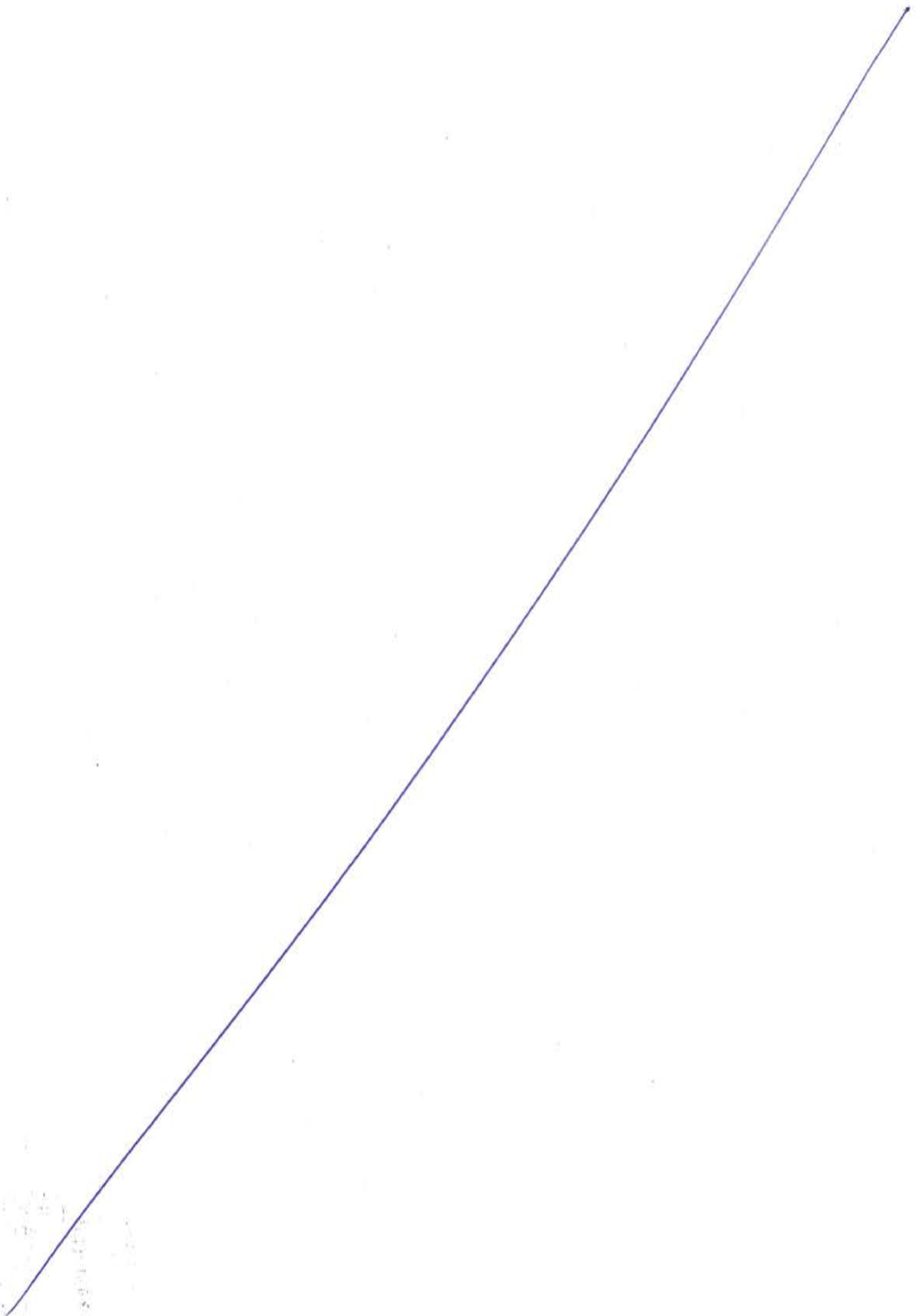
Country of Origin Declaration (ITB 14.1)

Item No.	Materia/Description	Code	Country of Origin
1	Reinforcement	IRC CODE	INDIA
2	Cement	IS CODE	INDIA

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Schedule No. 9: Construction of Dolphins and Fenders

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
901	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): steel reinforcing bars	Lump sum	Lot	-	-	-	-
902	Ditto: steel liner pipes	Lump sum	Lot	-	-	-	-
903	Construction of dolphin foundation piles including geotechnical investigation	Lump sum	Lot	-	-	-	-
904	Loading tests and test reports on dolphin foundation piles	Lump sum	Lot	-	-	-	-
905	Construction of concrete structure	Lump sum	Lot	-	-	-	-
906	Fenders including Materials	Lump sum	Lot	983,676,617	-	-	-
Total for Price Schedule No. 9 (To be carried forward to Grand Summary)				983,676,617	-	-	-

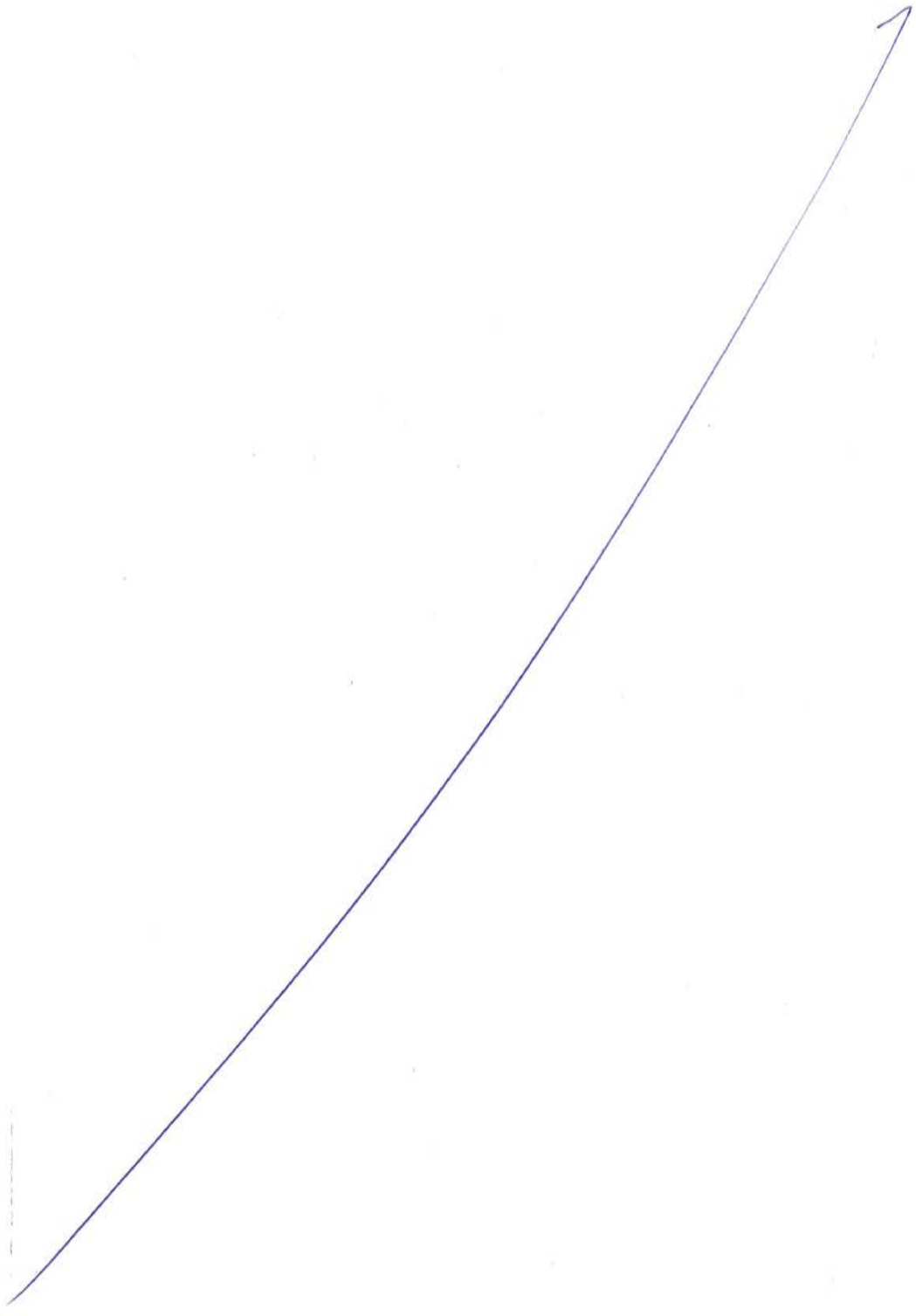
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Country of Origin Declaration (ITB 14.1)

Item No.	Material/Description	Code	Country of Origin
1	Fender Material	IS CODE	INDIAN



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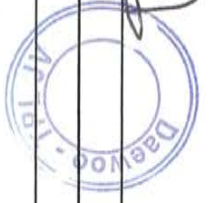
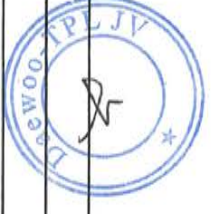


Schedule No. 10: Fabrication and Installation of Bridge Ancillaries

Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
1001	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): bridge bearings (shoes)	Lump sum	Lot	37,511,475	1,997,832	40,968,364	-
1002	Ditto: expansion joints	Lump sum	Lot	5,543,642	-	-	-
1003	Installation of bridge bearings (shoes)	Lump sum	Lot	1,279,381	-	-	-
1004	Installation of expansion joints	Lump sum	Lot	55,436,420	-	-	-
1005	Crash barriers including Materials	Lump sum	Lot	271,279,873	-	-	-
1006	Deck waterproofing including Materials	Lump sum	Lot	296,205,391	-	-	-
Total for Price Schedule No. 10 (To be carried forward to Grand Summary)				667,256,182	1,997,832	40,968,364	-

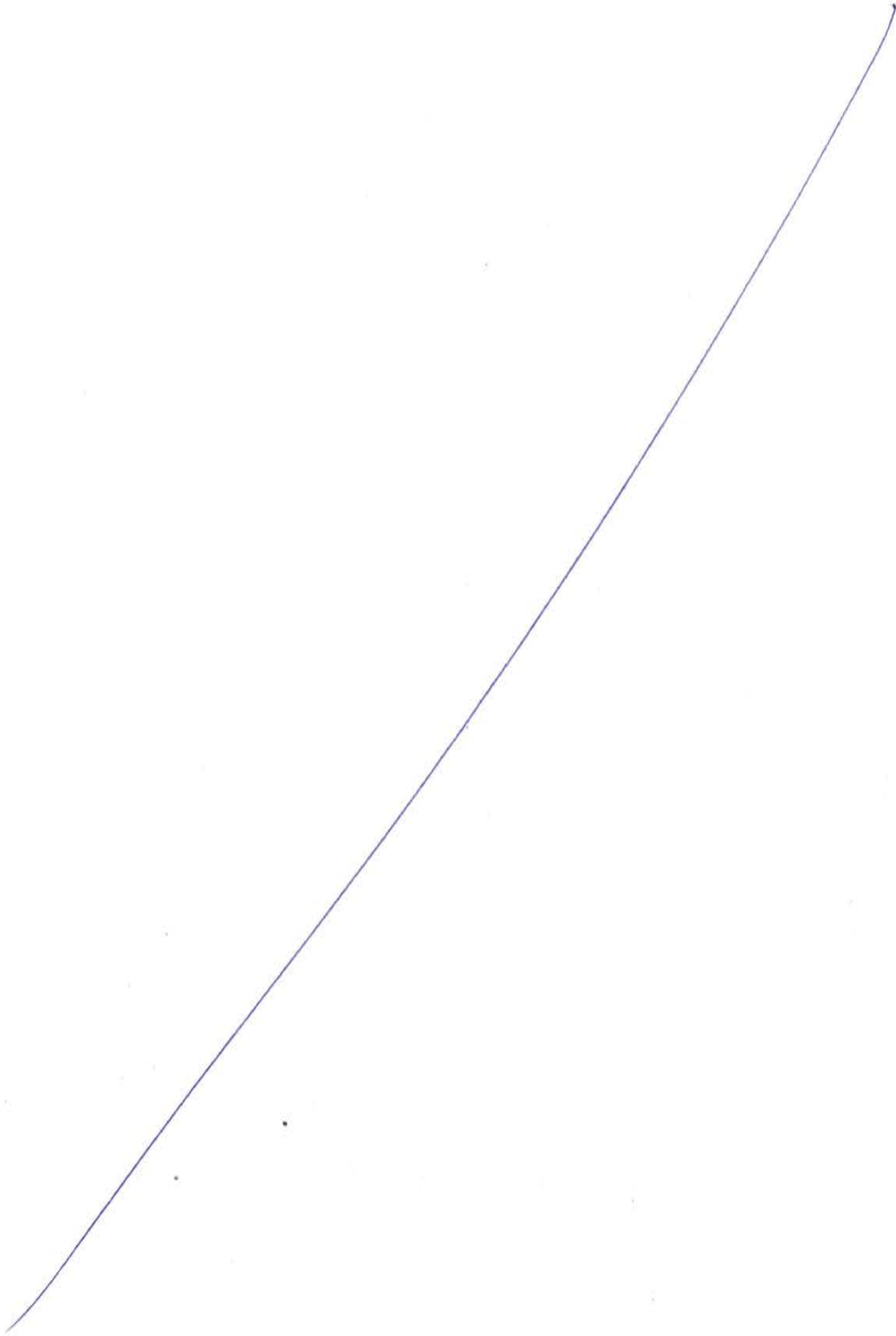
Country of Origin Declaration (ITB 14.1)

Item No.	Materia/Description	Code	Country of Origin
1	Bridge Bearing	JRA, IS code	India, Japan, Switzerland
2	Expansion Joints	IRC, AASHTO	India, Japan, Switzerland



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Schedule No. 11: Construction of Asphalt Pavement

Item No.	Item Description	Unit	Q'ty	Foreign			
				Local (Ind. Rs)	(US\$)	(J. Yen)	(Euro)
1101	Asphalt pavement including Materials	Lump sum	Lot	327,892,206	-	-	-
Total for Price Schedule No. 11 (To be carried forward to Grand Summary)				327,892,206	-	-	-

Country of Origin Declaration (ITB 14.1)

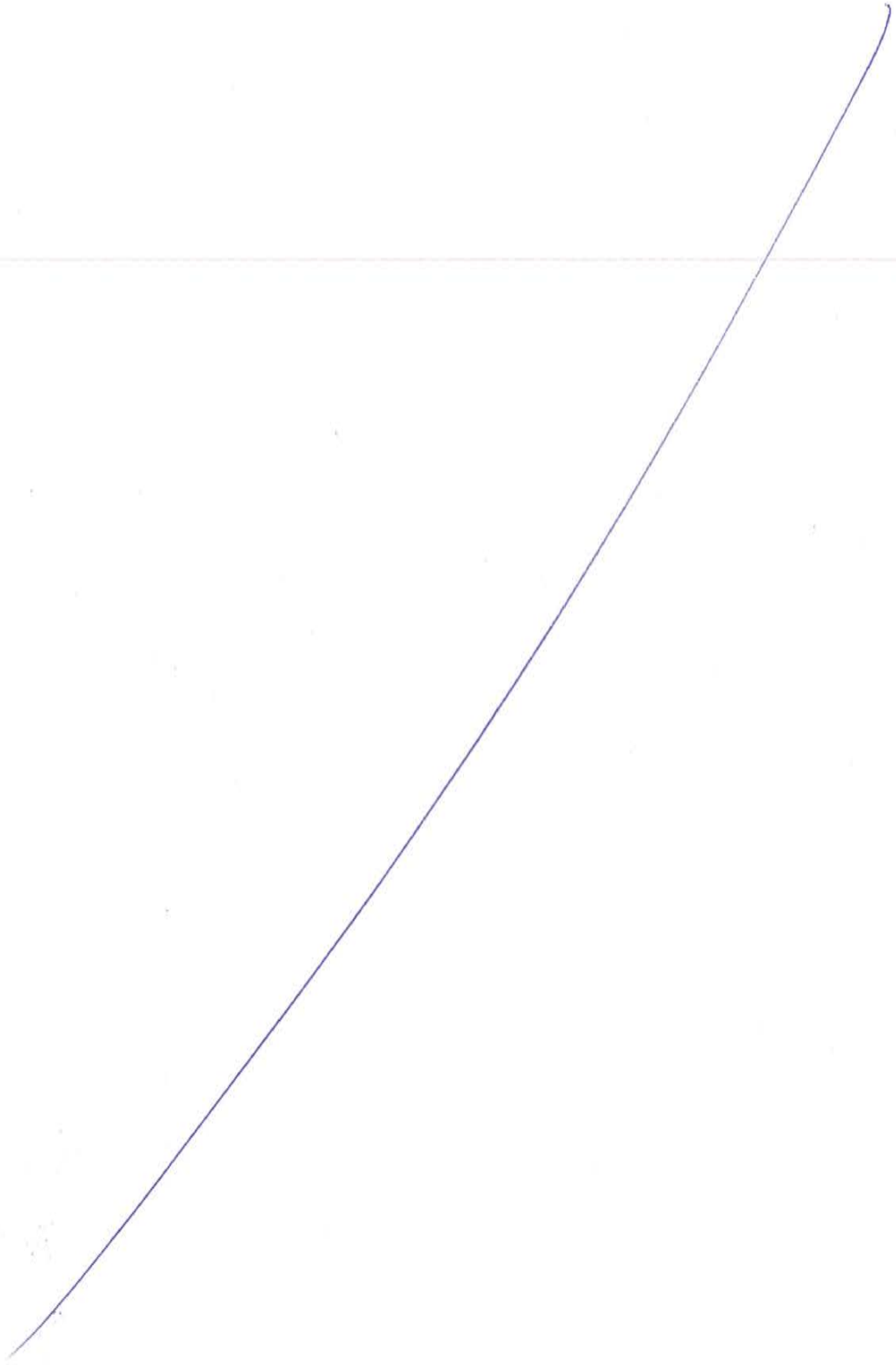
Item No.	Material/Description	Code	Country of Origin
1	Asphalt	IRC CODE	INDIA

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Schedule No. 12: Fabrication and Installation of Miscellaneous Items

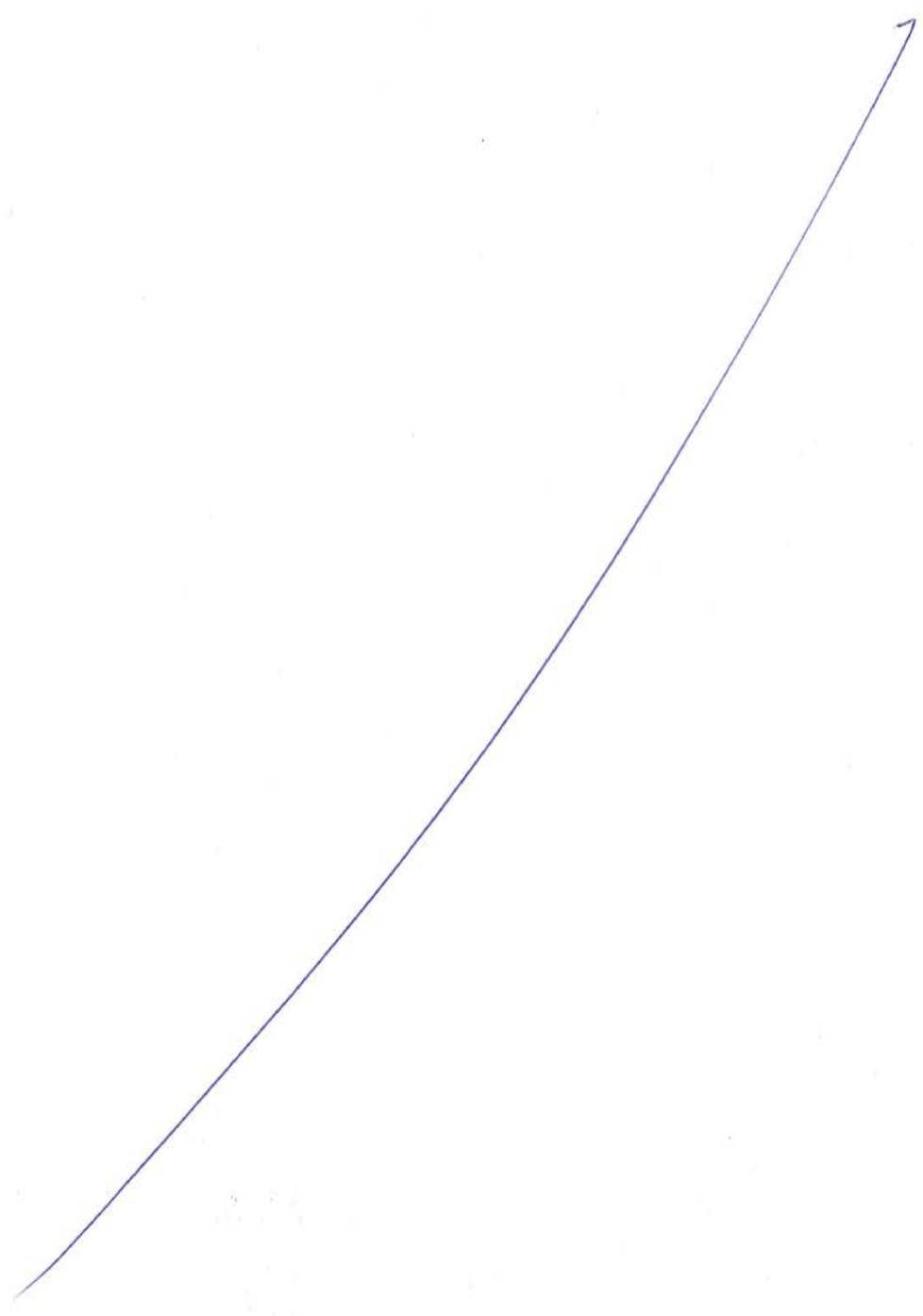
Item No.	Item Description	Unit	Q'ty	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
1201	Materials on the Site (refer to GC Sub-Clause 14.5 (c) (i)): noise barriers	Lump sum	Lot	24,781,795	-	-	-
1202	Installation of noise barriers	Lump sum	Lot	2,492,024	-	-	-
1203	Safety fences including Materials	Lump sum	Lot	3,973,107	-	-	-
1204	Drainage facility including Materials	Lump sum	Lot	131,369,848	-	210,596,173	-
1205	Kerbs including Materials	Lump sum	Lot	-	-	-	-
1206	Road furniture including Materials	Lump sum	Lot	13,963,455	-	-	-
1207	Pavement marking including Materials	Lump sum	Lot	4,314,675	-	-	-
1208	Road signage including Materials	Lump sum	Lot	1,021,634	-	-	-
1209	Gantry/overhang (cantilever)-type signage support structures including Materials	Lump sum	Lot	7,110,066	-	-	-
1210	Median openings including Materials	Lump sum	Lot	1,621,060	-	-	-



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Package-2

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Item No.	Materia/Description	Code	Country of Origin
1211	Traffic signals including Materials and testing	Lot	51
1212	Restoration of removed items	Lump sum	-
1213	Other miscellaneous items including Materials and testing as required	Lump sum	-
Total for Price Schedule No. 12 (To be carried forward to Grand Summary)			210,596,173

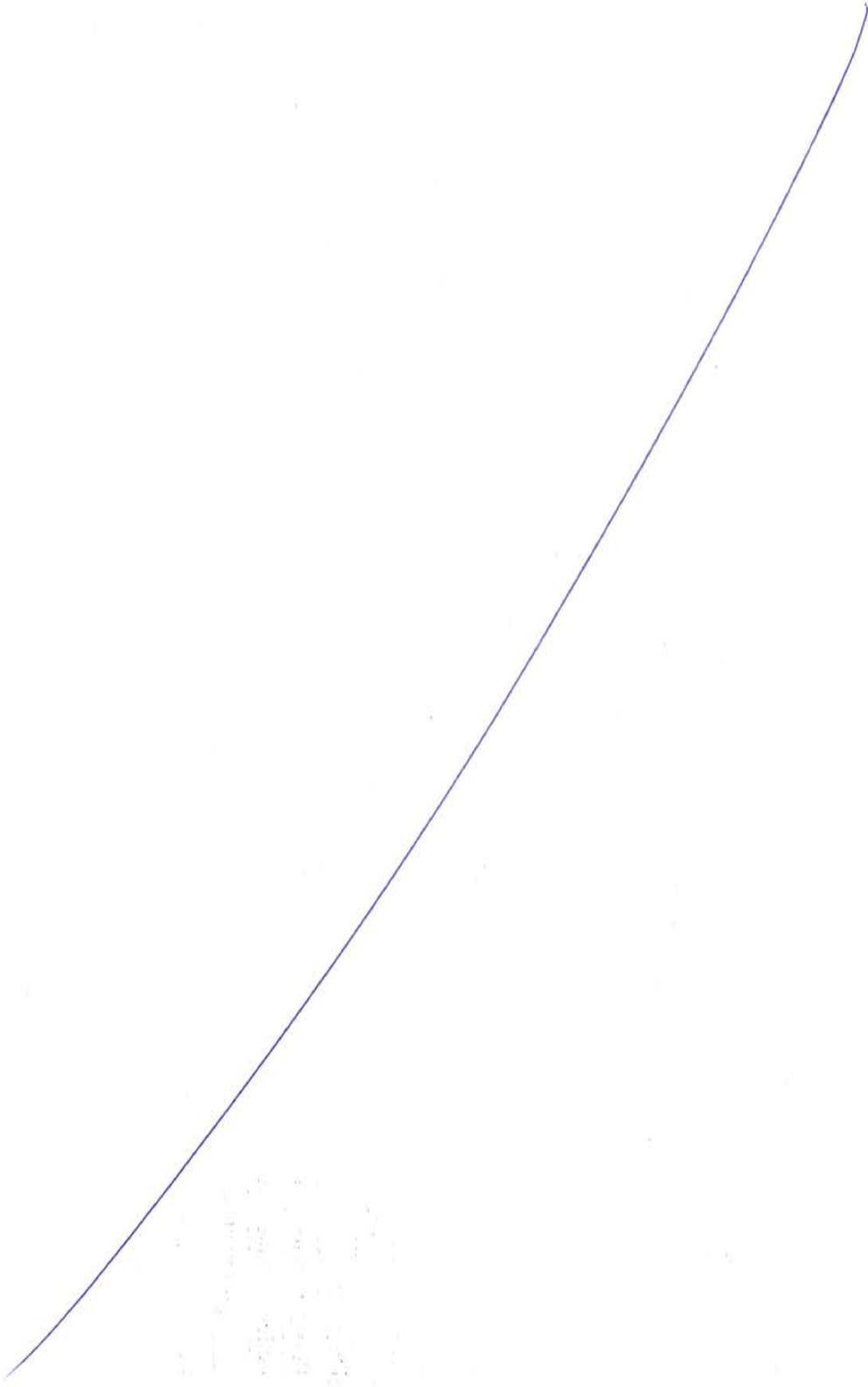
Country of Origin Declaration (ITB 14.1)

Item No.	Materia/Description	Code	Country of Origin
1	Noise Barrier	IS CODE-	INDIA
2	View Barrier	IS CODE	INDIA

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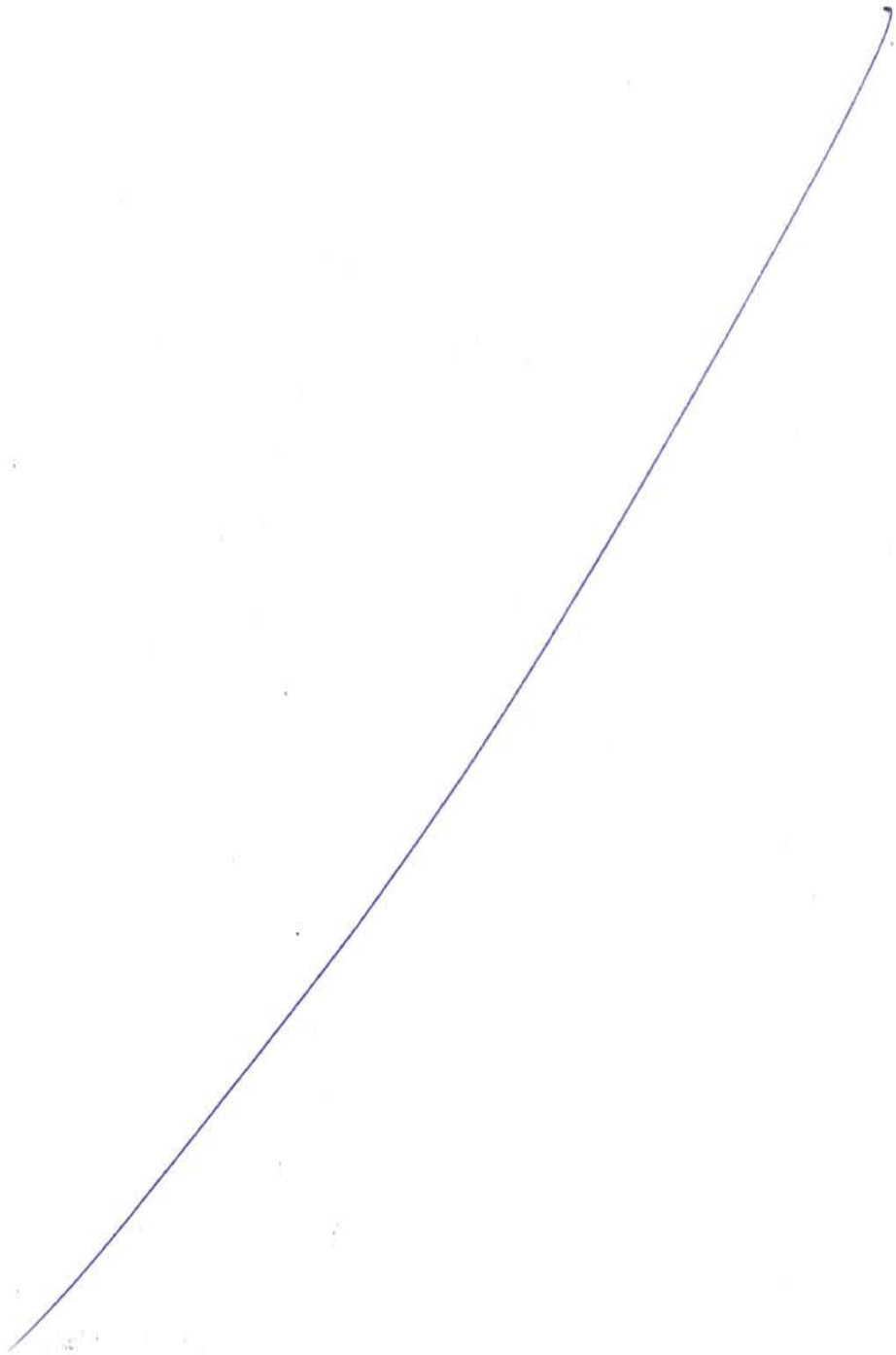
Schedule No. 13: Provisional Sums

Item No.	Item Description	Foreign (US\$)	
		Local (Ind. Rs)	Foreign (US\$)
1301	Factory/Shop Inspection Trips	5,000,000	300,000
1302	Underwater Utility Survey and Mapping	5,000,000	-
1303	Tree-cutting / Transplanting / Clearing / Compensatory Plantation	30,000,000	-
1304	Additional Environmental Mitigation Measures	100,000,000	200,000
1305	Bridge illumination and navigational Guidance System	200,000,000	50,000
1306	Landscaping/Beautification	100,000,000	-
1307	Additional Safety and Security Measures	150,000,000	-
1308	Utility Shifting/Relocation on Land Section	50,000,000	-
1309	Automated tests during construction and/or after Completion	50,000,000	-
1310	Seminars/Workshops	20,000,000	300,000
1311	Dispute-Board Cost and Expense*	20,000,000	200,000
1312	Additional Progress Recording	20,000,000	-
1313	Day works	50,000,000	-
1314	Public relations, awareness programs, exhibition rooms, etc.	200,000,000	150,000
1315	Pedestrian facilities	200,000,000	-
1316	Firefighting arrangement	100,000,000	-
1317	De-humidification arrangements	100,000,000	-
Total for Price Schedule No. 13 (To be carried forward to Grand Summary)		1,400,000,000	1,200,000



Provisional Sums included and so designated in the Price Schedules shall be expended in whole or in part at the direction of the Engineer, except for the provisional sum for the cost of the DB, which

[*One-half of the Employer's cost estimate of the Disputes Board is included in the Provisional Sums. Contractor's overheads and profits shall not be included in this amount.]



Number of Feet
1000
2000
3000
4000
5000
6000
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9000
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Grand Summary

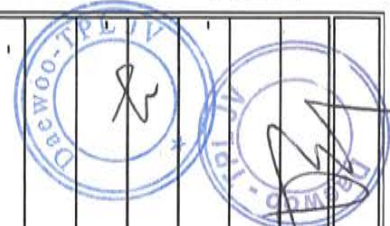
Contract Name: Package-2 of the Project (Construction of a 7.807 km long bridge section (CH 10+380 - CH 18+187) across the Mumbai Bay including Shivaji Nagar Interchange)

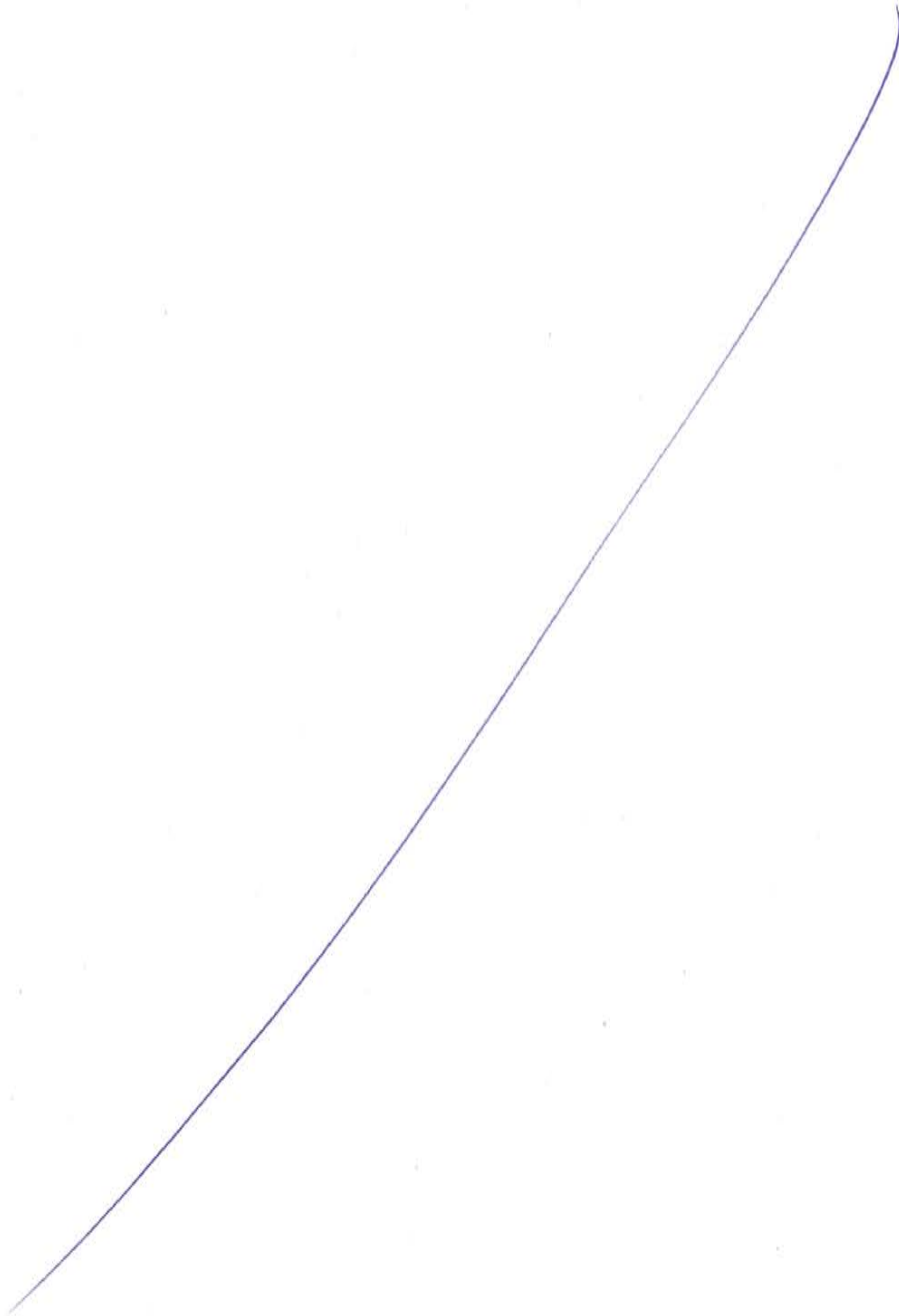
IFB No.: MMRDA/ENG1/000752

Grand Summary	Local (Ind. Rs)	Foreign (US\$)	Foreign (J. Yen)	Foreign (Euro)
Schedule No. 1: General Items	1,092,974,019	-	-	-
Schedule No. 2: Contractor's Documents	710,433,112	-	-	-
Schedule No. 3: Temporary Works	7,158,979,824	-	-	-
Schedule No. 4: Construction of Foundation Piles and Pile Caps for Piers and Abutments	6,011,357,104	-	-	-
Schedule No. 5: Construction of Piers and Abutments including Pier Caps	4,371,896,075	-	-	-
Schedule No. 6: Construction of Concrete Superstructure	9,163,350,443	-	692,339,485	-
Schedule No. 7: Fabrication and Erection of Steel Superstructure	2,456,417,146	150,436,127	13,008,510,939	-
Schedule No. 8: Construction of Earthworks	3,606,814,262	-	-	-
Schedule No. 9: Construction of Dolphins and Fenders	983,676,617	-	-	-
Schedule No. 10: Fabrication and Installation of Bridge Ancillaries	667,256,182	1,997,832	40,968,364	-
Schedule No. 11: Construction of Asphalt Pavement	327,892,206	-	-	-
Schedule No. 12: Fabrication and Installation of Miscellaneous	206,167,619	-	210,596,173	-
Subtotal of Schedules No. 1 - No. 12: (A)	36,757,214,609	152,433,958	13,952,414,961	
Schedule No. 13: Provisional Sums: (B)	1,400,000,000	1,200,000	-	-
Bid Price: (C=A + B) (Carried forward to Form of Price Bid)	38,157,214,609	153,633,958	13,952,414,961	



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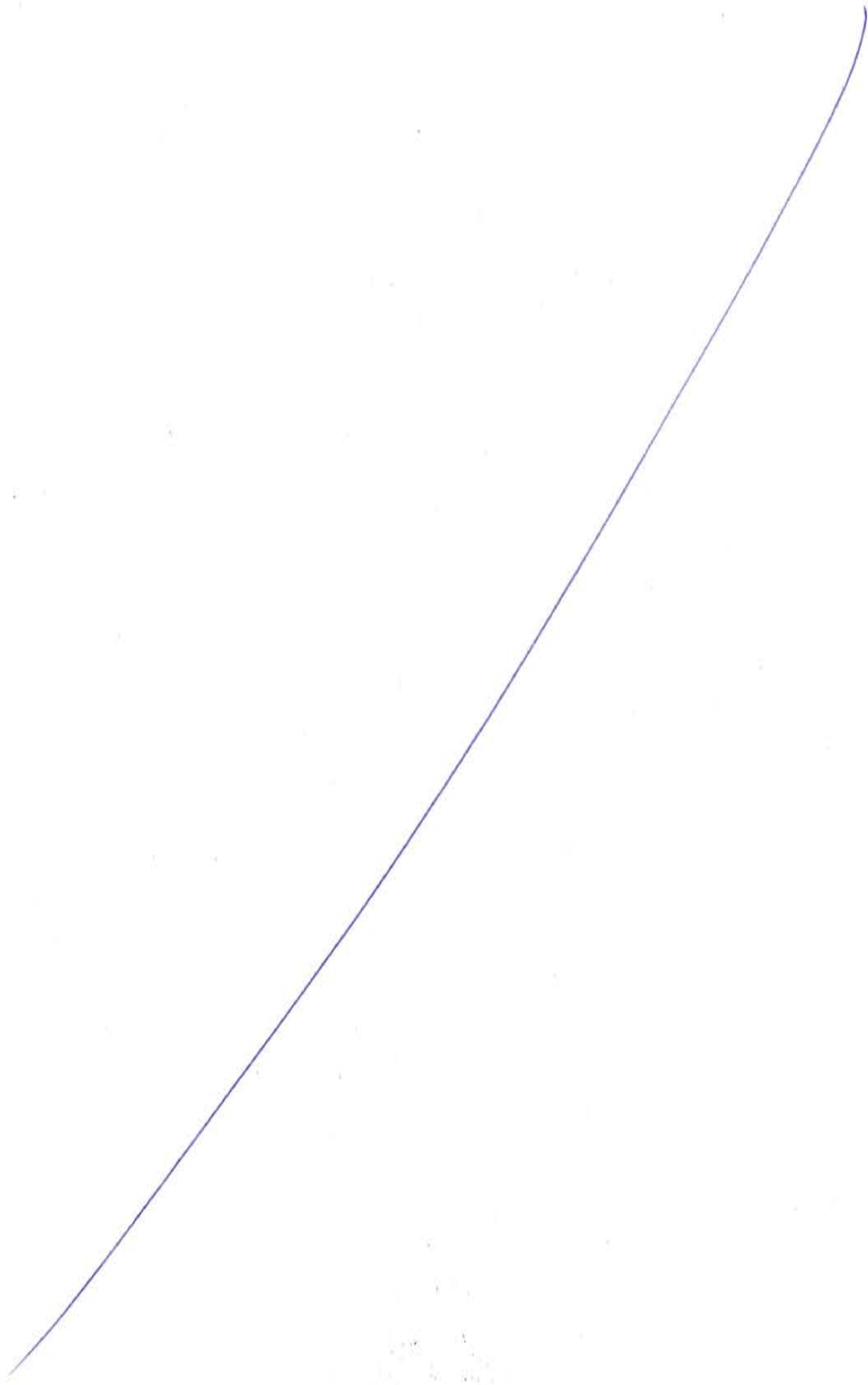
Proposed Schedule of Rates for Variation

The following rates will be taken into account by the Engineer when the Engineer values the relevant variations in accordance with GC Sub-Clause 13.3 [Variation Procedure].

Item No.	Description of Variation Item	Unit of Measurement	Rate		Remarks
			Local Currency Portion	Foreign Currency Portion	
1	Variation in the total length of cast-in-place foundation piles for abutments on ground,				
	a) diameter: 1200 mm	meter	28,600.00		Including steel liner/casing pipes
	b) diameter: 1500 mm	meter	35,800.00		
c) diameter: 2000 mm	meter	54,800.00			
2	Variation in the total length of cast-in-place foundation piles for piers in water,				
	a) diameter: 1200 mm	meter	2,27,059.00		Including steel liner/casing pipes
	b) diameter: 1500 mm	meter	2,41,459.00		
c) diameter: 2000 mm	meter	3,27,784.00			
3	Variation in the overall height of abutments,				
	a) Type 1 (Size 8.5m x 3.0 m)	meter	3,11,572.00		Height above top surface of pile cap
	b) Type 2	meter			
c) Type 3	meter				
4	Variation in the overall height of Piers,				
	a) Type 1 (Size 2.8m x 2.2 m)	meter	2,18,246.00		Height above top surface of pile cap
	b) Type 2 (Size 3.5m x 4.5 m)	meter	4,63,757.00		
c) Type 3 (Size 4.0m x 4.5 m)	meter	4,63,757.00			
5	Variation in the plan area of the bridge deck of viaduct-type concrete superstructure	Square meter	1,32,114.95		The rate shall include all foundations, substructures, superstructures, pavements, crash barriers, expansion joints and other relevant sundry items.
6	Variation in the plan area of the bridge deck of steel superstructure	Square meter	4,83,044.11		Ditto
7	Variation in area of view barriers	Square meter	13,615.00		Including anchors
8	Variation in area of noise barriers	Square meter	13,790.00		Ditto

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Item No.	Description of Variation Item	Unit of Measurement	Rate		Remarks
			Local Currency Portion	Foreign Currency Portion	
9	Variation in area of safety fences, a) Type 1 (3m height)	Square meter	7,140.00		Including foundations and anchors
10	Variation in area of boundary fences, a) Type 1 (Chainlink fence)	Square meter	950.00		Including foundations and anchors
	b) Type 2 (0.45mm thk. GI Sheet)	Square meter	2,800.00		

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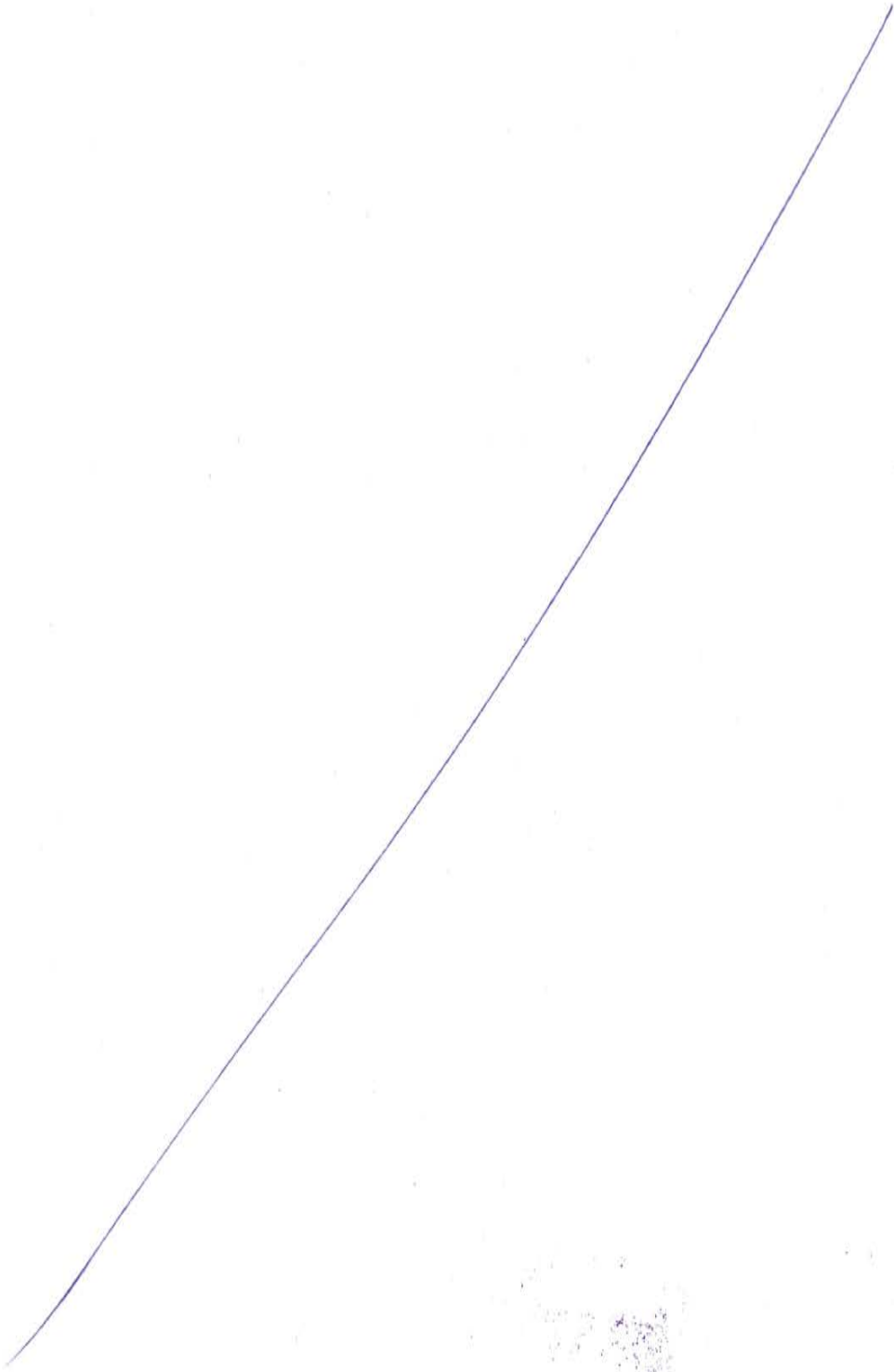
Note: The above rates for variation are subject to price adjustments using the price adjustment factors shown in the relevant "Schedule of Price Adjustment Data".



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Form CHK-2

Submission Check Sheet for Price Bid

[Bidder shall complete the following check sheet to ensure that all of the documents to be submitted by Bidder are included in the Price Bid

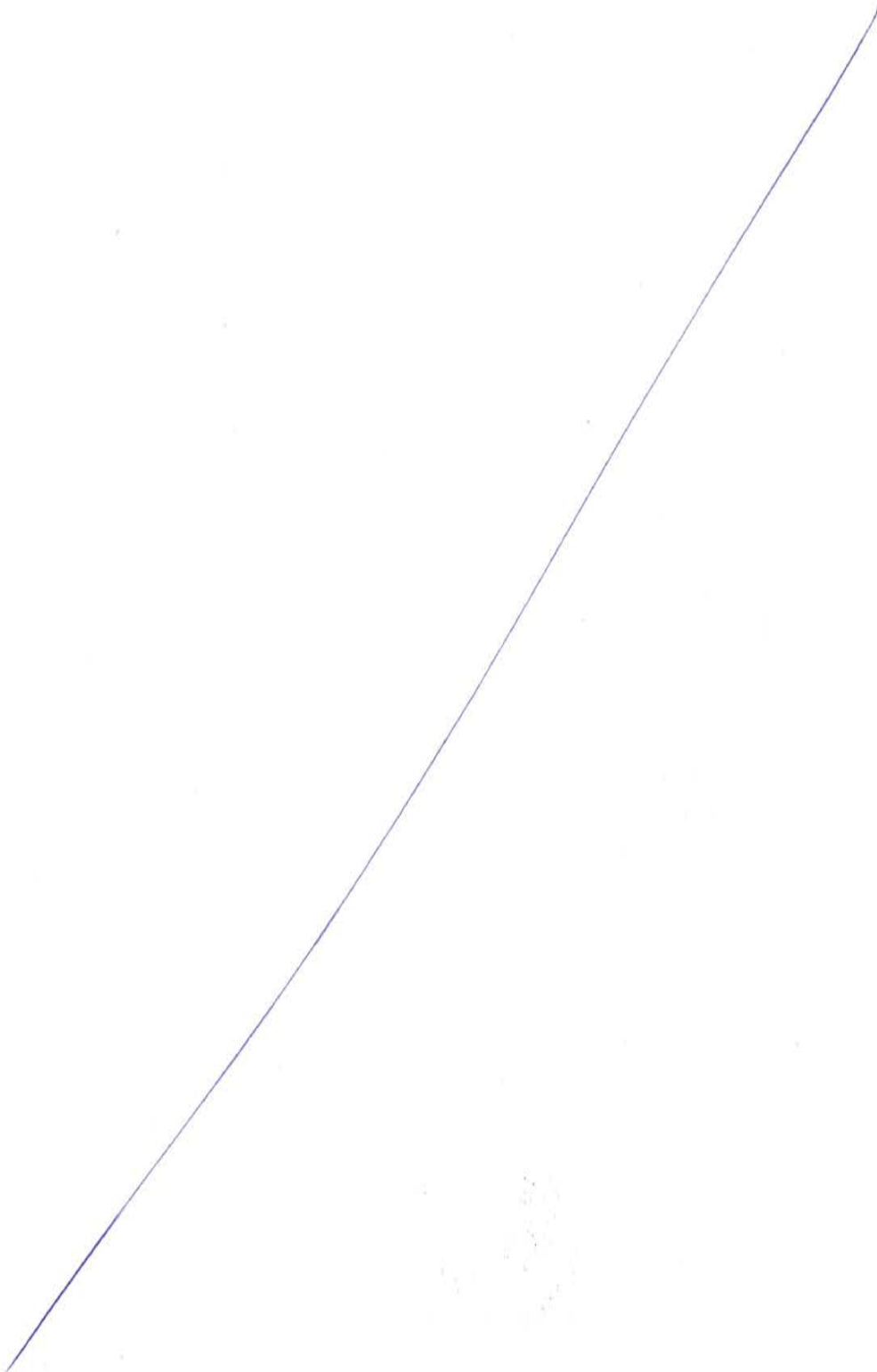
No.	For	Included in Technical Bid	Remarks
1	Letter of Price Bid	Included	
2	Schedule of Price Adjustment Data	Included	Tables A and B
3	Limit of Amounts Payable for Respective Price Schedule	Included	
4	Price Schedule No. 1	Included	
5	Price Schedule No. 2	Included	
6	Price Schedule No. 3	Included	[Country of Origin Declaration must be included.]
7	Price Schedule No. 4	Included	[Ditto]
8	Price Schedule No. 5	Included	[Ditto]
9	Price Schedule No. 6	Included	[Ditto]
10	Price Schedule No. 7	Included	[Ditto]
11	Price Schedule No. 8	Included	[Ditto]
12	Price Schedule No. 9	Included	[Ditto]
13	Price Schedule No. 10	Included	[Ditto]
14	Price Schedule No. 11	Included	[Ditto]
15	Price Schedule No. 12	Included	[Ditto]



**Mumbai Metropolitan
Region Development
Authority**



Form CHK-2



16	Price Schedule No. 13	Included	[Amounts fixed by the Employer shall not be altered]
17	Grand Summary	Included	
18	Proposed Schedule of Rates for Variation	Included	
19	Others (See ITB 11.3)	NA	If any
20	Form CHK (this sheet)	Included	



Authorized Signatory
Mr Byoung Hoi-Uhm
Deputy General Manager

For and on behalf of [Daewoo TPL JV]
Date [17th day of July 2017]



**Mumbai Metropolitan
Region Development
Authority**

DOCUMENT TITLE

Form CHK-2

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