

**Maharashtra State  
Road Development  
Corporation Limited**



**MSRDC/02/JMD(ENGG-I)/Revas-Reddi/Agardanda/  
Date :- 15.02.2024.**

**To,  
All Bidders**

**Sub :** RFP for construction of Two-Lane Bridge across Agardanda Creek with approaches Connecting Agardanda Tq. Murud and Dighi Tq. Shrivardhan In Raigad District on Revas-Redi Coastal Highway (Msh-04) In the State of Maharashtra on EPC Mode.

**Ref :** Pre Bid meeting held on 07.02.2024

Please find enclosed herewith CSC & CSD for the above subjected work.

Thanking you,

**Encl. : As above**

Issued as per the approval of VC&MD, MSRDC

**Yours Sincerely,  
-sd/-  
Executive Engineer  
MSRDC Ltd., Mumbai**

CIN: U45200MH1996SGC101586

GST: 27AAACM6833C1ZP

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**Registered Office:** Nepean Sea Road  
Besides Priyadarshini Park,  
Mumbai 400036

Tel: (022) 2368 5909

Tel: (022) 2361 3789

Tel: (022) 2369 1030

**Corporate Office:** Opp. Bandra  
Reclamation Bus Depot. Near  
Lilavati Hospital, K C Marg, Bandra  
(West), Mumbai 400050  
Tel: (022) 2640 0190 / 201  
Tel: (022) 2655 8175 / 76  
Fax: (022) 2641 7893

[www.msrdc.in](http://www.msrdc.in)



Sub: RFP for Construction of Two-Lane Bridge across Agardanda Creek with approaches Connecting Tokekhar Tq. Murud and Turumbadi Tq. Mhasala in Raigad District on Revas-Redi Coastal Highway (MSH-04) in the State of Maharashtra on EPC Mode  
E-Tender Notice No T-2722 (2023-24) dated 23/01/2024

**Common Set of Clarification**

Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification																		
1	Volume-I ITB	2.2.2.2 (ii) For normal Highway projects (including Major Bridges / ROB / Flyovers / Tunnels): Page No.21	<p>Provided that Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or Category 3 specified in Clause 2.2.2.5.</p> <p>Applicant should have completed one Creek bridge/ Perennial River bridge of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below –</p> <table><tr><td>Sr. No</td><td>No. of lanes for project for completed Bridge</td><td>Factor</td></tr><tr><td>1</td><td>Two lanes</td><td>1.00</td></tr><tr><td>2</td><td>Four lanes</td><td>2.00</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1.00	2	Four lanes	2.00	<p><b>Request authority to modify clause as under –</b></p> <p>Provided that Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or Category 3 specified in Clause 2.2.2.5.</p> <p>Applicant should have completed one Creek bridge/ <b>Sea bridge</b> of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last <b>10 years</b> updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below –</p> <table><tr><td>Sr. No</td><td>No. of lanes for project for completed Bridge</td><td>Factor</td></tr><tr><td>1</td><td>Two lanes</td><td>1.00</td></tr><tr><td>2</td><td>Four lanes</td><td>2.00</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1.00	2	Four lanes	2.00	Please Refer CSD
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2.	Volume-I ITB	2.2.2.3 (iii) Financial Capacity Page No.23	An Applicant shall, in the last three financial years i.e., 2020-2021, 2021-22 and 2022-2023 have neither been a loss-making company nor been in the list of Corporate Debt Restructuring (CDR) and / or Strategic Debt Restructuring (SDR) and / or having been declared Insolvent.	<p>Fundamentally, Financial soundness of the company cannot be measured by profit and loss as they are part of business cycle.</p> <p>As per the procurement guidelines of Central Government, only Net worth for preceding financial year and average annual Turnover of last three financial years of the company are considered to access the financial eligibility of the bidder.</p> <p>Hence, we request authority to delete profitability clause and modify clause as under –</p> <p>An Applicant shall, in the last three financial years i.e., 2020-2021, 2021-22 and 2022-2023 have not been in the list of Corporate Debt Restructuring (CDR) and / or Strategic Debt Restructuring (SDR) and / or having been declared Insolvent.</p>	Please refer CSD
3.	Volume-I ITB	APPENDIX - IA Letter comprising the Technical Bid	<p><b>Sr. no. 6</b></p> <p>I/ We certify that in the last two years, we have neither failed to perform for the works of Expressways, National Highways, ISC &amp;EI works, Major Bridges, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against us, nor been expelled or terminated by <u>Ministry of Road Transport &amp; Highways</u></p>	<p>Non-performance / termination of the party is defined under ITT <b>Cl. No. 2.1.17</b> through various parameters.</p> <p>We bring to your notice that the ITT clause <b>no 2.1.20</b> and Non-performance and termination related clauses mentioned in forms i.e. <b>APPENDIX – IA : Letter</b></p>	Please Refer CSD

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			or its implementing agencies for breach on our part.	<i>comprising the Technical Bid, APPENDIX – IB : Letter comprising the Financial BID and ANNEX-I Details of Bidder</i> are inconsistent with each other and not in line with the parameters of ITT Cl. No. 2.1.17.	
		APPENDIX – IB Letter comprising the Financial BID	<b>Sr. no. 6</b> I/ We certify that in the last two years, we/ any of the JV partners have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award, nor been expelled from any project or contract by <u>any public authority</u> nor have had any contract terminated by <u>any public authority</u> for breach on our part.	As such we request authority to remove inconsistency in the ITT clause & and above-mentioned forms and modify the clause as mentioned in “ <b>APPENDIX – IA: Letter comprising the Technical Bid</b> ”- Sr. no. 6. as below, which is in conformity with ITT <b>Cl. No. 2.1.17.</b>	Stipulation of RFP shall prevail.
		ANNEX-I Details of Bidder	<b>Sr. no. 6</b> (a) I/ We certify that in the last two years, we have neither failed to perform for the works of Expressways, National Highways, ISC & EI works, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitral award against us, nor been expelled or terminated by <u>Ministry of Road Transport &amp; Highways or its implementing agencies</u> for breach on our part.	<u>I/ We certify that in the last two years, we have neither failed to perform for the works of Expressways, National Highways, ISC &amp; EI works, Major Bridges, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against us, nor been expelled or terminated by Ministry of Road Transport &amp; Highways or its implementing agencies for breach on our part.</u>  Kindly consider and confirm the same	Please Refer CSD

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		cl.2.1.20 Page No. 18	The Bidder should, in the last 2 (two) years, have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder nor has been expelled from any project or contract by <u>any public entity</u> nor have had any contract terminated by <u>any public entity</u> for breach by such Bidder.		Stipulation of RFP shall prevail.
4	Volume III, Technical schedule	Schedule D, page no. 51 clause 9.3.1 [v]	Monopile not permitted	Pile bent & Monopile system have been successfully used recently in MTHL & Mumbai coastal road project. This reduces effective footprint and minimizes disturbance in mangroves & also to the ocean's flora and fauna. We therefore, request you to allow monopiles which would allow faster construction and also, in line with the requirements of SEIAA.	Stipulation of RFP shall prevail.
5	Volume III, Technical schedule	General arrangement drawing Page no....	Drawing no: Coastal Road Package II/ GAD/Agardanda creek bridge shows span arrangement 36 spans x 50m + 1 span x 65m + (75m+120m+120m+75m) + 1 span x 65m + 36 spans x 50m	We presume that the navigational span configuration of (75m+120m+120m+75m) is mandatory and the span length of 65m adjacent to navigation span is not mandatory. The min span length for non-navigation spans shall be not less than 50m. Please confirm if our understanding is correct.	The navigational span configuration of (75m+120m+120m+75m) is mandatory and the min span length for non-navigation spans shall be not less than 50m.

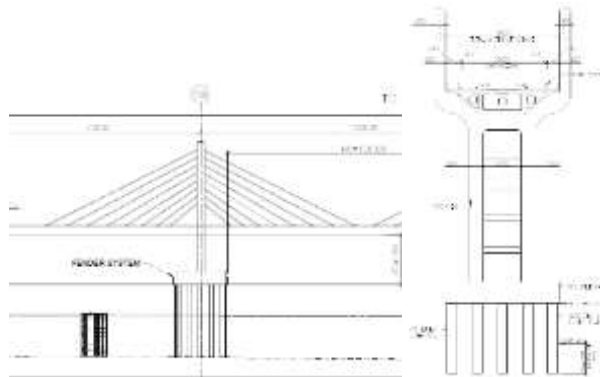
Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
6	Volume III, Technical schedule	Schedule B, page no. 32 clause 7.1.i [7]	Navigational spans shall be cable stayed superstructure	Since the main span of cable stayed portion is only 120m, we presume that the EPC contractor is allowed to use extradosed or cable stayed superstructure	Stipulation of RFP shall prevail.
7	Volume III, Technical schedule	, Schedule D, Annex -I, Page no. 95 Clause 5.5	Galvanizing to the wires shall be minimum of 300 g/m <sup>2</sup> , which shall be applied uniformly without drops of local thickening	Please clarify, whether can we follow the galvanization as per NF Code recommendation range of 190 ~ 350 g/m <sup>2</sup> .	Stipulation of RFP shall prevail.
8	Volume III, Technical schedule	Schedule D ,Annex -I, Page no. 104 Clause 5.13	Aero dynamic requirements: Damping arrangement for the stay cable shall be internal and positioned at a distance from the bearing plate equal to 1.5%~2.0 cable length.	Normally damper is planned above deck at the exit of Guide pipe and not feasible to place 1.5% to 2% of free length from Bearing Plate	Can be placed as per design requirements however it should satisfy all the codal provisions
	Volume III, Technical schedule	Schedule D ,Annex -I ,Page no. 104 Clause 5.13	Stay cable shall be installed with damping arrangements providing logarithmic decrement of 4% or greater on any cable	Please clarify if it is required to use friction damper in the project.	Contractor is allowed to provide the same as per design requirements.
10.	Volume III, Technical schedule	Schedule B, page no. 58 clause 9.6	Contractor shall provide an Under-Bridge Inspection Vehicle (UBIV) for this purpose.	Please provide details/ specifications of UBIV	Stipulation of RFP shall prevail.
11.	Volume III, Technical schedule	Schedule C, page no. 36 clause 2.3	The monthly electricity bill of Street light and decorative lights shall be Borne by the contractor till completion of Defect Liability Period and handing over of the project to the Authority	Please inform the location of nearest substation / power tapping point.	Bidders are requested to collect data from the concerned Authority

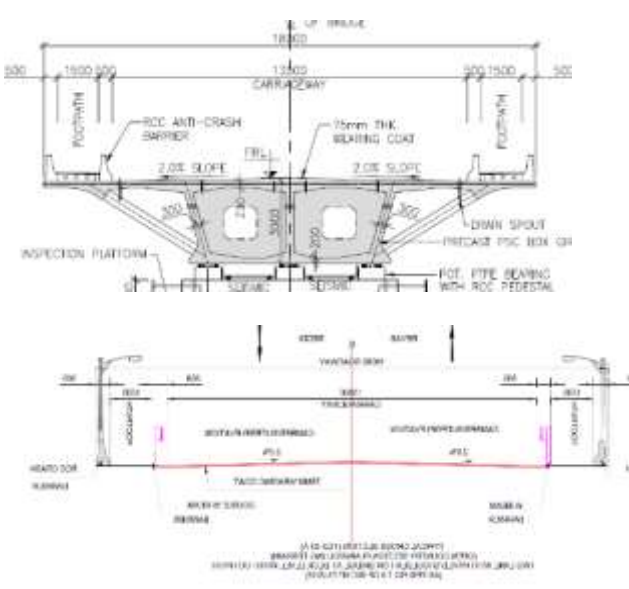
Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
12.	Volume III, Technical schedule	Schedule B, page no. 31 clause 7.1, Note no.2	Final alignment of Elevated Bridge Approaches shall be designed so that there shall be minimum disturbance to Existing Road and loss to mangroves	Please confirm if contractor can make changes in the horizontal alignment within the available ROW	Stipulation of RFP shall prevail.
13.	Volume III, Technical schedule	Schedule D, page no. 51 clause 9.3.1 [i]	Structures with steel concrete composite construction, except for deck slab is not permitted	As per Volume, III Schedule D Page no. 51 clause 9.3.1 [i] structures with steel concrete composite construction are not permitted and as per Schedule, page no. 125 Table 1.3.2 superstructure payment procedure is bifurcated for 30% for procurement of structural steel, 20% on Fabrication of structural steel and 35% on Launching, please review.	Please Refer CSD As superstructure proposed is Precast prestressed box girder hence this condition will not be applicable.
14.	Volume III, Technical schedule	Volume III, Schedule H Page no. 121	Schedule H: Contract price weightages	We noted that the specified contract price weightages are not reflective of the scope of work defined in Schedule B, C & D. We request you to review and provide the revised Schedule H.	Please Refer CSD
15.	Volume III, Technical schedule	Volume III, Schedule B, page no. 81 clause 22	Wearing Course – 75 mm thk. M-50 Grade Cement concrete covered by 6 mm thick Asphalt /Mastic as specified in Annexure -I	There is no separate specification provided in Annexure – I, we also request to change the wearing coat to 65 mm thk. (40 mm BC + 25 mm Mastic asphalt] which is using is most of the bridges	<b>Please Refer CSD</b>
16.	Volume I ITB	Volume, I ITB Clause 1.1.1 and Schedule J Page No. 131	Duration of work-30 Calendar months including monsoon	As per Volume, I ITB Clause 1.1.1 and as per Schedule J Page No. 131 it is 36 Months including Monsoon, please review and confirm the duration of construction.	Please Refer CSD



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17.	Volume III, Technical schedule	Volume III, Schedule D, page no. 56 clause 9.3.8.5	Reinforcement -Anticorrosive treatment shall be epoxy coating shall be used as a minimum protection against corrosion with the specified cover for only foundation and piers shown on the above table irrespective of the grade and exposure condition.	Table showing the grade and exposure condition is missing, please provide the same. As per Schedule D, Page no. 81 Clause 23, Suggested Anti corrosive treatment for steel is using of Inhibiting admixture and also as per Clause 23.2.4 page no. 82 Reinforcement steel shall be CRS steel or concrete Corrosion admixture shall be used. Please confirm what type of anticorrosive treatment is to be used for Foundation, Sub structure and superstructure. Fusion Bonded Epoxy coated reinforcement or CRS or Inhibiting admixture.	Please Refer CSD
18.	Volume III, Technical schedule	Volume III, Schedule C, page no. 56 clause 9.3.8.4	<b>Corrosion Inhibitor:</b> - For all bored piles, buried concrete and concrete in every part, bipolar, migrating non -nitrate based concrete penetrating corrosion inhibiting admixture dosage 3kg/cum	As per Clause 3.3.2.1.7 the corrosion inhibitor is to be added for concrete in every part. We presume the corrosion inhibitor should be added to the concrete which is in marine water i.e. in pile and Pile cap only, please confirm. The recommended dosage of corrosion inhibitor is 3kg/cum. Please confirm if the bidder can change the dosage as per the product requirement which is going to be used or the 3kg/cum is fixed, please confirm.	Please refer CSD
19.	Volume - I, ITB,	Volume -I, ITB, Page no. 56, Appendix -	Letter comprising the Financial BID – A per point no. 7 /We hereby submit our BID and offer a BID price Rs ..... for undertaking the aforesaid Project in	Please confirm if the price is to be submitted on line in excel file and also to be write in Appendix -IB. Please confirm.	Contractor need not to submit the financial offer



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		IB	accordance with the Bidding Document and the Agreement.		through excel sheet. It shall be submitted in Appendix –IB through online only.
20.	Volume III, Technical schedule 1	Volume II, EPC agreement, page no. 77 clause 19.2.1	The Authority shall make an interest-bearing @ SBI MCLR + 3% annual compounding rate advance payment, equal in amount to 10% of the Contract Price, exclusive for mobilisation expenses.	We request you to modify it as simple interest rate.	Stipulation of RFP shall prevail
21.	Volume III, Technical schedule 1	Volume III, Schedule A Annex -II Page no. 9	Dates for providing ROW - 90% on appointed date & Balance 10% of land within 365 days from appointed date	As the scope of work is mainly creek bridge, partial handing over will completely delay the project. Hence, we request you to provide 100% handing over on Appointed date or latest within 90 days from appointed date.	Stipulation of RFP shall prevail
22.		Volume III, Schedule B, page no. 32 clause 7.1[7]	Navigational Spans shall be Cable Stayed Superstructure 	<p>The navigational span indicated as cable stayed bridge in longitudinal elevation in Drawing no: Coastal Road Package II/ GAD/Agardanda creek bridge with the pylon's height about 30m. However, the section in transverse direction for navigational span shows the pylon's height is short about 12m above the roadway. So the inconsistency arises. The ITB reads: "7) Navigational spans shall be cable stayed superstructure."</p> <p>Since the main span of cable stayed portion is only 120m, we presume that the EPC contractor is allowed to use Extradosed or cable stayed superstructure</p>	Stipulation of RFP shall prevail

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23.		Volume III, Schedule B, page no. 24 TCS 03A	<p>The Bridge includes Approaches with 1.5 m wide protected Footpath on both sides separated by Metal beam Crash Barrier from Carriageway and RCC crash barrier on both side of roadway. TCS-03 A drawing.</p> 	As per TCS-03 A metal barrier is located between Footpath and Carriageway & Coastal Road Package II/ GAD/Agardanda creek bridge RCC Anti-Crash Barrier is located between Footpath and Carriageway. Please review and confirm which section is to be followed.	Please refer CSD
24.		Volume III, Scheduled D , Page no. 75 clause no. 15.1.3	For bidding and for the purpose of tender drawing, general foundation levels proposed for the pylons/piers & abutments, shall not be higher than those proposed in the GAD.	Drawings do not specified the founding levels for each pier and Pylon location, please provide the same.	Please refer CSD

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25.		Volume -III, Schedule B, Page no. 31 Clause 7.1	Barge impact shall be considered for Navigational span only.	Barge impact shall be considered for Navigational span (span length 120m) only. However, P37 and P41 appear to have been designed to withstand the impact of barges as they have a large pier cross section and multiple piles ( $\Phi 900 \sim 55EA$ ) on the GAD drawing. For P37 and P41, we cannot find any special regulations requiring the dimension to be applied like this, so we ask whether the appropriate dimension can be calculated through the proposed design.	Stipulation of RFP shall prevail
26.		Volume -III, Schedule C, Page no. 41 Clause 4	The span length of the Creek Bridge shall be designed with regular rhythm and span length shall be confirmed with GAD.	The 65m span bridge requires the use of steel bridges rather than concrete box girders to have the same girder height.  Can we reduce it to 50m to apply concrete box girders of the same material?	Stipulation of RFP shall prevail
27.		Volume III, Schedule D, Page no. 51 clause 9.3.1	For pile caps adjacent to navigation spans and sub-surface obstructions, the top surface of the pile cap shall be set out at as per GAD relative to MSL. The pile cap top level is always above the MHWS and always visible to vessels using the navigation channel. Bridge piers/foundations adjacent to navigation channels shall be designed to resist potential ship impact forces. The bottom of the pile cap should not be in the splashing zone of the high tide level. The reinforcement will be fusion bond epoxy coated (FBEC).	The reinforcement will be fusion bond epoxy coated (FBEC) for pile caps. However, in GAD NOTES, all reinforcement shall be TMT confirming to IS-1786 TMT 500 with anticorrosive treatment of FBEC.  Please confirm FBEC is to be use only for pile cap reinforcement or for all reinforcement.	Please refer CSD

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28.		Volume III, Schedule D, Page no. 59, Clause 9.5	Movement joint - For better riding quality, spacing of movement joints shall not be less than 200m for straight spans in main bridge.	As per Volume III, Schedule D page no. 59 clause 9.5 for better riding quality, spacing of movement joints shall not be less than 200m for straight spans in main bridge."  However, GAD indicates that the interval between movement joints is 150m, so it does not meet the regulations. Please review.	Please refer CSD												
29.		Volume III, Schedule D, Page 51, clause 9.3.1	The following types of structural arrangement are not permitted:  (i) Structures with steel concrete composite construction, except for Deck Slab.	The 65m span bridge is likely to be a composite bridge with the same height as a 50m concrete box girder. But the steel concrete composite is not permitted. We request to review and confirm the same.	Stipulation of RFP shall prevail												
30.		Volume III, Schedule D, Page 78, clause 17.1	The cantilever projection of the slab in transverse direction shall not be more than 1.80 m	When applying transverse tendons, the cantilever length can be increased, so please clarify whether it is necessary to follow this regulation.	Stipulation of RFP shall prevail												
31.		Volume III, Schedule D, Page no. 80 Clause 18	Bearings – Following type of Bearings shall be permitted, for the spans mentioned against each type <table><tr><td>1</td><td>Tar paper Bearings</td><td>For solid slabs simply supported spans less than or equal to 10 m</td></tr><tr><td>2</td><td>Elastomeric Bearings</td><td>For spans upto 25 m</td></tr><tr><td>3</td><td>POT-PTFE Bearings</td><td>For spans above 25m</td></tr><tr><td>4</td><td>Spherical bearings</td><td>For long span cable stayed.</td></tr></table>	1	Tar paper Bearings	For solid slabs simply supported spans less than or equal to 10 m	2	Elastomeric Bearings	For spans upto 25 m	3	POT-PTFE Bearings	For spans above 25m	4	Spherical bearings	For long span cable stayed.	Elastomeric Bearings are permitted for spans up to 25m, and POT-PTFE Bearings are permitted for spans above 25m, and Spherical Bearings are permitted for long span cable stayed. However, since there are various types of Elastomeric Bearings and seismic isolation bearings are also available,	Stipulation of RFP shall prevail
1	Tar paper Bearings	For solid slabs simply supported spans less than or equal to 10 m															
2	Elastomeric Bearings	For spans upto 25 m															
3	POT-PTFE Bearings	For spans above 25m															
4	Spherical bearings	For long span cable stayed.															

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				please allow use of Elastomeric bearings also.	
32.		Volume III, Schedule D, Annex-I, Page no.99 , Clause 5.9	Anchorage – Cable anchorages shall meet the acceptance criteria as specified in fib 30	As there is latest standard of fib 89, which supersedes fib 30, we request to please review and confirm which fib standard is to be followed for cable anchorages.	Contractor shall design as per latest code
33.		Volume III, Schedule D, Annex-I, Page no.100 , Clause 5.10	Cable saddle shall meet the acceptance criteria as specified in fib 30	As per tender saddle with fib 30 mentioned, please confirm if we can use link in place of saddles as per bib 89-2019.	Contractor shall design as per latest code
34.		Volume III, Schedule D, Annex-I, Page no.104 , Clause 5.13	Aerodynamic Requirements Stay cables shall be installed with damping arrangements providing a logarithmic decrement of 4% or greater on any cable. The damping arrangement shall be places at deck level only and shall be easily replaceable. Damping arrangement for stay cables shall be internal and be positioned at a distance from the bearing plate equal to 1.5% - 2.0% of the free cable length. Internal dampers shall work from very small vibrations (amplitude less than 10mm of cable movement) to large vibrations. The damper proposed shall be a proven solution	The span of Stay cable span is 120 m, considering the bridge span and length of cable dampers are preferably not required, please review and confirm.	Stipulation of RFP shall prevail

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35.		Volume III, Schedule A, Annex IV ,Page no. 12 Environmental clearance	CRZ Clearance from MCZMA – Minutes of the 168 <sup>th</sup> meeting – 1. MSRDC to ensure that construction is not proposed in Turtle breeding sites 2. Noise barrier will be placed between construction area and turtle nesting sites.	Please provide us the locations and the total length of noise barrier to be provided.	Please refer CSD
			3. Adequate noise barrier along the road are provided	Please clarity what is mean by noise barrier to be provided along the road.	Please refer CSD
			5. Construction work will not be carried out during the turtle nesting /breeding season [ October to March]	Considering the nature and volume of work, contractor needs to do the construction work day and night to achieve the progress. We presume that there is no time restriction on working hours and working season. Please confirm	Stipulation of RFP shall prevail
36.		Volume III, Schedule A ,Annex-II	Date of providing Right of way – 90% of land on appointed date and balance of land within 365 days form appointed date.	We understand from our site visit that, land acquisition process is not initiated yet. We request you to give us the current status of Land Acquisition: 3A,3D,3G etc. We also request to give us the chainage wise handover schedule , example handing over of Tokekhar side stretch or Turumbadi side stretch dates ,which will help us with planning of the project.	Stipulation of RFP shall prevail

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37.		Volume -III, Schedule D, Page no. 41, Clause 4.15	Crushed sand shall not be used, The natural river sand shall be used for construction of this cable stayed bridge.	As the extraction of natural sand is banned in Mumbai and nearby Mumbai regions, it will be difficult to get the natural sand, hence we request to allow using crushed sand for the construction.Please confirm .	Please refer CSD
38.	Volume I - ITB	Technical capacity- Eligibility and qualification requirements of Bidder Clause 2.2.2.2 (v) Page no 22	There should not be history of collapse due to failure of superstructure / substructure of any bridge / flyover / viaduct/metro line work during construction in last 5 years. Undertaking in this regard shall be submitted along with bid document.	The bidder request to kindly delete this requirement	Please refer CSD
39.	Volume I - ITB	Eligibility and qualification requirements of Bidder 2.2.2.2 (ii) Page no 21, 22 Technical capacity	Applicant should have completed one Creek bridge/ Perennial River bridge of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.	Since the project has only one navigational span of 120m which can be provided with any suitable structure arrangement meeting the Employer's Requirement, we suggest to modify the clause as below:  Applicant should have completed one bridge across Creek/Perennial River of minimum 3500 m length having 4 lane/ 2 lane carriageway consisting of minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.	Please refer CSD



Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
40.	Volume II - Contract Agreement	Article 19 - Payments Article 14 - Maintenance Schedule H 14.1 - Volume II 19.1.1 - Volume II, 1.2 - Schedule-H - Volume III Page no 63, 77, 123 Definition of Contract Price and Maintenance Price	14.1.1 The Contractor shall maintain the Project for a period of 10 (ten) years commencing from the date of the Provisional Certificate (the "Maintenance Period"). For the performance of its Maintenance obligations, the contractor shall be paid 0.25% of the Contract Price for the first year and 0.5%, 0.75%, 1% of the Contract Price for the second, third and fourth year respectively in case of road projects. But in case of standalone Creek Bridge / structure work with approaches, VUP and at grade road, the contractor shall be paid 0.125% of the Contract Price each for the first five years and 0.25% of the Contract Price each year for the remaining period of five year respectively. Maintenance Cost shall be included in Contract Price. Amount shall be, inclusive of all taxes. .... 19.1.1 The Authority shall make payments to the Contractor for the Works on the basis of the lump sum price accepted by the Authority in consideration of the obligations specified in this Agreement for an amount of Rs ----- (the "Contract Price"), which shall be subject to adjustments in accordance with the provisions of this Agreement. For the avoidance of doubt, the Parties expressly agree that the Contract Price shall include the cost of Maintenance which shall be paid separately in accordance with the provisions of Clause 19.7. The Parties further agree that save and except as provided in this Agreement, the Contract Price shall be valid and effective until issue of Completion Certificate.	We would like bring the ambiguity in the clauses regarding payment for Maintenance works which is also contradictory and deviatory from Standard MoRTH RFP documents which states Clause 19.1(i) ".....Contract Price shall not include cost of Maintenance, which shall be paid separately in accordance with the provisions of Clause 19.7....."  In this RFP, the cost of Maintenance is paid separately, however a mention of including the Maintenance Cost into the Contract Price makes the process contradictory. If the Maintenance Cost is included in the Contract Price, how would the %age specified in Clause 14.1 will be applied on Contract Price?  Kindly clarify. A possible solution will be to retain the original clause of Standard MoRTH guidelines.	Stipulation of RFP shall prevail

Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification																																				
41.	Volume II Contract Agreement	Article 13 - Change of Scope Cl. 13.6 Page no 62 Schedule of Rates for Change of Scope	13.6.1 The variation in founding levels and Length of Bridge up to ± 20% as shown in GAD will not be considered for any change of scope	This clause will have unlimited risk and huge financial burden for the contractor in absence of complete Geotechnical data for the project. We suggest to modify this clause as below: 13.6.1 The variation in founding levels and Length of Bridge up to ± 2% as shown in GAD will not be considered for any change of scope	Stipulation of RFP shall prevail																																				
42.	Volume II Contract Agreement	Article 19 - Payments 19.10.4 Page no 85 Price Adjustment weightage	<table><thead><tr><th>Component</th><th>Bridge with Approaches</th></tr></thead><tbody><tr><td>Labour (PL)</td><td>16.07%</td></tr><tr><td>Cement (PC)</td><td>5.87%</td></tr><tr><td>Steel (PS) and Structural Steel</td><td>24.08</td></tr><tr><td>Bitumen (PB)</td><td>0.28%</td></tr><tr><td>Fuel and lubricants (PF)</td><td>4.80%</td></tr><tr><td>Other Materials (PM)</td><td>6.35%</td></tr><tr><td>Plant, machinery and spares. (PA)</td><td>42.54%</td></tr><tr><td>Total</td><td>100%</td></tr></tbody></table>	Component	Bridge with Approaches	Labour (PL)	16.07%	Cement (PC)	5.87%	Steel (PS) and Structural Steel	24.08	Bitumen (PB)	0.28%	Fuel and lubricants (PF)	4.80%	Other Materials (PM)	6.35%	Plant, machinery and spares. (PA)	42.54%	Total	100%	The proportion of "Plant, machinery and spares. (PA)" is significantly high for approaches and not balanced in other items. Hence request to modify the weightages as given below: <table><thead><tr><th>Item Description</th><th>Proposed</th></tr></thead><tbody><tr><td>Labour (PL)</td><td>28.15%</td></tr><tr><td>Cement (PC)</td><td>5.55%</td></tr><tr><td>Steel (PS) and Structural Steel</td><td>25.00%</td></tr><tr><td>Bitumen (Pb)</td><td>0.50%</td></tr><tr><td>Fuel and lubricants (PF)</td><td>10.00%</td></tr><tr><td>Other Materials (PM)</td><td>20.00%</td></tr><tr><td>Plant, machinery and spares (PA)</td><td>10.80%</td></tr><tr><td>Total</td><td>100.00%</td></tr></tbody></table>	Item Description	Proposed	Labour (PL)	28.15%	Cement (PC)	5.55%	Steel (PS) and Structural Steel	25.00%	Bitumen (Pb)	0.50%	Fuel and lubricants (PF)	10.00%	Other Materials (PM)	20.00%	Plant, machinery and spares (PA)	10.80%	Total	100.00%	Stipulation of RFP shall prevail
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43.	General	Kmz file		Bidder requests to kindly provide the KMZ file of the bridge alignment.	Please refer CSD																																				
44.	Volume II – Contract Agreement	Article 14 - Maintenance 14.1.1 Page no 63 Maintenance Period	The Contractor shall maintain the Project for a period of 10 (ten) years commencing from the date of the Provisional Certificate (the “Maintenance Period”).	Bidder requests to reduce the Maintenance Period to 5 years.	Stipulation of RFP shall prevail																																				

Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification																
45.	Volume III Technical Schedules	Schedule - J Project Completion Schedule 2 Page no 131 of Schedule J Project Milestone	2. Project Milestone-I Project Milestone-I shall occur on the date falling on the 380th (Three hundred and eighty) day from the Appointed Date (the “Project Milestone-I”). Prior to the occurrence of Project Milestone-I, the Contractor shall have commenced construction of the Project Road and submitted to the Authority duly and validly prepared Stage Payment Statements for an amount not less than 10% (ten per cent) of the Contract Price.	It is to be noted that during 1st year of the project, the maximum time goes into Geotechnical Investigation and Design works. It is suggested that: (1) There should be 8-10% payment towards Geotechnical works, design works and site establishment work which are actual physical works at site and has financial outgo for the contractor then this milestone will be achievable. (2) The financial progress %age for Milestone-I shall be reduced to 5% of Contract Price.	Stipulation of RFP shall prevail																
46.	Volume III Technical Schedules	Schedule H - Contract price weightages 1.2 Page no 121-122 Weightage in percentage of the Contract price	<table><tr><td colspan="2">The summation of %age weightage of Major bridge works category is coming out to be more than 100%</td></tr><tr><td>Foundation</td><td>31.75%</td></tr><tr><td>Sub-structure</td><td>3.96%</td></tr><tr><td>Super-structure</td><td>58.24%</td></tr><tr><td>Wearing coats including expansion joints</td><td>1.61%</td></tr><tr><td>Miscellaneous items</td><td>4.09%</td></tr><tr><td>Approaches</td><td>0.52%</td></tr><tr><td>Total</td><td>100.17%</td></tr></table>	The summation of %age weightage of Major bridge works category is coming out to be more than 100%		Foundation	31.75%	Sub-structure	3.96%	Super-structure	58.24%	Wearing coats including expansion joints	1.61%	Miscellaneous items	4.09%	Approaches	0.52%	Total	100.17%	The bidder request to kindly make the summation of weightage as 100%.	Please refer CSD
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47.	Volume III Technical Schedules	Schedule H - Contract price weightages 1.3.2 Page no 125 Payment procedure - Major Bridge works	(iii) Super-structure: Payment shall be made as below: 30% on Procurement of structural steel on Pro-rata basis 20% on Fabrication of structural steel on Pro-rata basis 35% on erection/ Launching of structure on Pro-rata basis	Type of bridge superstructure for the main bridge and approaches will consist of precast concrete box girders as shown in the drawings. Hence, the weightages for activities in super-structure category should be given as per activities involved in construction of PSC superstructure.	Please refer CSD																

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			10% after final coat of paint on structural steel members on Pro-rata basis 5% on completion of Deck Slab including all required test	The bidder request to modify the payment process for superstructure as below: 20% on procurement of material steel materials 60% on pre-casting of all segments for each span 20% on complete erection of superstructure for each span	
48.	Volume III Technical Schedules	Schedule H 1.3.2 Page no 124-125 Procedure of estimating the value of work done	B- New Major Creek Bridge  (i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridge. Payment against foundation shall be made on pro-rata basis on completion of per foundation.  In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.	Bidder requests to modify the clause as below: i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridge. Payment against foundation shall be made on pro-rata basis in two parts for each foundation of the major bridge (a) On completion of each pile of the foundation (b) On completion of each pile cap In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.	Stipulation of RFP shall prevail
49.	Volume III Technical Schedules	Schedule H 1.3.2 Page no 124-125 Procedure of estimating the value of work done	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of per substructure upto abutment/pier cap level of the major bridge.	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of a minimum linear length of 10m against the total aggregate liner length of the substructure.	Stipulation of RFP shall prevail

Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification																
50.	General	General - Financial bid document	<div>Covers Information, No. Of Covers - 2</div> <table><thead><tr><th>Cover No</th><th>Cover Type</th><th>Description</th><th>Document Type</th></tr></thead><tbody><tr><td>1</td><td>Fee/PreQual/Technical</td><td>Technical</td><td>.rar</td></tr><tr><td>2</td><td>Finance</td><td>Financial</td><td>.xls</td></tr><tr><td></td><td></td><td>Financial</td><td>.rar</td></tr></tbody></table>	Cover No	Cover Type	Description	Document Type	1	Fee/PreQual/Technical	Technical	.rar	2	Finance	Financial	.xls			Financial	.rar	As per the mahatenders.gov.in portal, the bidder has to upload the financial bid in .xls and .rar format. However, the .xls format is not provided in the tender documents. Hence, the bidder request to either provide the .xls format for uploading the financial bid or delete the provision.  Kindly clarify	Contractor need not to submit the financial offer through excel sheet. It shall be submitted in Appendix –IB through online only
Cover No	Cover Type	Description	Document Type																		
1	Fee/PreQual/Technical	Technical	.rar																		
2	Finance	Financial	.xls																		
		Financial	.rar																		
51.	Volume I - ITB	Appendix - II , Appendix - II , Page no 79-81, Bank Guarantee for bid security	16. Notwithstanding any contained herein;  (i) Our liability under this guarantee shall not exceed INR ..... (ii) This bank guarantee shall be valid upto ..... and en-cashable within further claim of 12 months i.e. .... (iii) We are liable to pay the guarantee amount or any part of this bank guarantee only & only if you serve upon us a written claim or demand only through email/fax/post.	As per clause 2.20 of the RFP, the validity period of the EMD BG shall be 180 days form the bid due date, exclusive of a claim period of 60 days. Whereas as per point no 16 of EMD BG format, the bank guarantee shall be en-cashable within further claim of 12 months. Bidder request to kindly clarify the same.	Please Refer CSD																
52.	Volume I - ITB	Section - I Introduction, Clause 1.1.3 (B), Page no 7, Salient Features of the Project	The salient features of the project are as under: <table><tbody><tr><td>1</td><td>Total Length</td><td>4.310 km</td></tr><tr><td>2</td><td>Width of Bridge as per IRC: SP -73</td><td>18.00 m</td></tr><tr><td>3</td><td>Design Speed</td><td>80 kmph</td></tr><tr><td>4</td><td>ROW and Carriageway</td><td>As shown in TCS drawings and given in TCS Schedule given below</td></tr></tbody></table>	1	Total Length	4.310 km	2	Width of Bridge as per IRC: SP -73	18.00 m	3	Design Speed	80 kmph	4	ROW and Carriageway	As shown in TCS drawings and given in TCS Schedule given below	Kindly confirm if the salient features provided in table shall be followed as such or contractor can propose any alternate arrangement or type based on their detailed assessment (Structure type, Bearing types, etc.,)	Stipulation of RFP shall prevail				
1	Total Length	4.310 km																			
2	Width of Bridge as per IRC: SP -73	18.00 m																			
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4	ROW and Carriageway	As shown in TCS drawings and given in TCS Schedule given below																			

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			<table><tr><td>5</td><td>Central Median</td><td>Nil</td></tr><tr><td>6</td><td>Footpath</td><td>1.50m on both sides of carriageway</td></tr><tr><td>7</td><td>Provisions of utility</td><td>Additional Load of 0.11/m shall be considered on each side of footpath and necessary arrangement shall be provided as per site requirements.</td></tr><tr><td>8</td><td>Brackets for Utility</td><td>As per Detailed Design</td></tr><tr><td>9</td><td>Decorative Bridge Lighting</td><td>As per Detailed Design</td></tr><tr><td>10</td><td>Decorative Street Lighting</td><td>As per Detailed Design</td></tr><tr><td>11</td><td>Navigation Span</td><td>2 nos.</td></tr><tr><td>12</td><td>Minimum Clear Horizontal Clearance for Navigation Span</td><td>100.00 m</td></tr><tr><td>13</td><td>Minimum Clear Vertical Clearance for Navigation Span</td><td>15.00 m</td></tr><tr><td>14</td><td>Type of Foundation</td><td>Pile Foundation</td></tr><tr><td>15</td><td>Type of Sub Structure</td><td>RCC/ PSC Structure</td></tr><tr><td>16</td><td>Type of Superstructure</td><td>Cable stayed bridge for Navigational span and PSC structure for remaining length of bridge and approaches</td></tr><tr><td>17</td><td>Inspection Gallery</td><td>At each Pier cap with proper railing as per GAD</td></tr><tr><td>18</td><td>Fender arrangement</td><td>for Navigational span</td></tr><tr><td>19</td><td>Expansion Joint</td><td>Strip Seal expansion joint</td></tr><tr><td>20</td><td>Type of Bearing</td><td>POT – PTFE</td></tr><tr><td>21</td><td>Total No. of Districts</td><td>01 (Raigad)</td></tr><tr><td>22</td><td>Total No. of Tahukas</td><td>02 (Murud , Mhasak)</td></tr><tr><td>23</td><td>Total No. of Villages</td><td>03 (Tokekhar, Wasah, Tumbadi )</td></tr></table>	5	Central Median	Nil	6	Footpath	1.50m on both sides of carriageway	7	Provisions of utility	Additional Load of 0.11/m shall be considered on each side of footpath and necessary arrangement shall be provided as per site requirements.	8	Brackets for Utility	As per Detailed Design	9	Decorative Bridge Lighting	As per Detailed Design	10	Decorative Street Lighting	As per Detailed Design	11	Navigation Span	2 nos.	12	Minimum Clear Horizontal Clearance for Navigation Span	100.00 m	13	Minimum Clear Vertical Clearance for Navigation Span	15.00 m	14	Type of Foundation	Pile Foundation	15	Type of Sub Structure	RCC/ PSC Structure	16	Type of Superstructure	Cable stayed bridge for Navigational span and PSC structure for remaining length of bridge and approaches	17	Inspection Gallery	At each Pier cap with proper railing as per GAD	18	Fender arrangement	for Navigational span	19	Expansion Joint	Strip Seal expansion joint	20	Type of Bearing	POT – PTFE	21	Total No. of Districts	01 (Raigad)	22	Total No. of Tahukas	02 (Murud , Mhasak)	23	Total No. of Villages	03 (Tokekhar, Wasah, Tumbadi )		
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53.	Volume II Contract Agreement	Article - 1 Definitions and Interpretations Clause 10.2, 10.2.2, 10.2.3, 10.2.4 Page no 39 Design and Drawings	The Contractor shall appoint a proof check consultant (the “Proof Consultant”) after proposing to the Authority a panel of three names of qualified and experienced firms having similar type of work experience from whom the Authority may choose one to be the Proof Consultant.	As clause 10.2.2 & 10.2.3 states Proof Consultant need to be appointed from Contractor side. However, clause 10.2.4 states that all designs need to be vetted from IIT before submitting to Engineer. Whether IIT can be employed as Proof Consultant or in addition to Proof consultant all designs need to be additionally checked and approved from IIT. Please confirm.	IIT can be employed as Proof Consultant by MSRDC in addition to Proof consultant appointed by the contractor. all designs need to be additionally checked and approved from IIT.																																																									

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
54.	Volume III Technical Schedules	Schedule-A Clause 1.4, 1 , Alignment plans	The alignment plans of the Project Creek Bridge and Approaches are specified in Annex-III. The proposed horizontal alignment of the project bridge shall be followed by the Contractor. The proposed profile of the Project Bridge shall be followed by the Contractor with minimum soffit level and FRL as indicated in general arrangement drawing of bridge and approaches. The Contractor, however improve/ upgrade the road/approaches and bridge profile as indicated in Annexure III of this schedule-A based on site/ design requirement and prior approval of Authority Engineer or Engineer- in-Charge	Kindly provide the drawings in cad format along with the KMZ file	Attached with CSD
55.	Volume III Technical Schedules	Schedule-A Clause 7.1 (4) , 30 , Design of Structures - General	Bridge Approaches and Creek Bridge shall be designed to carry required utility services like fire hydrant, electricity, water supply lines and cables etc. as per the requirement of the site/Authority. The provision of cast-in-situ brackets/ steel brackets shall be made on either side of the structures to carry the utility services in accordance with the manual requirement with approval from the Authority's Engineer. Any change shall not be constituted as a change of scope.	Kindly confirm the dimensions and load requirement of all the cables (Fire hydrant, electricity, water supply lines) etc.,	Refer Note no. 16 of Revised GAD. Its arrangement shall be finalized in consultation with Authority Engineer and Competent Authority at the time of execution.
56.	Volume III Technical Schedules	Schedule-A Clause 7.1 (6) 30 Design of Structures - General	Creek Bridge shall be designed in Symmetrical Geometry and Minimum Span length as shown in GAD.	Please confirm if the Contractor can propose their own span arrangement for cable stayed bridge such that minimum span arrangement of 120m is maintained.	Please refer CSD
57.	Volume III Technical Schedules	Schedule-D Clause 4.16 42 Specifications and Standards	Minimum diameter of main bar in R.C.C. piers and abutments shall be 20mm if it is designed as a column. If structure like closed box abutment/pier or is provided then minimum bar diameter of 16 mm	Whether the contractor can perform the designs based on approved standards or minimum diameter requirements provided are mandatory to be adopted.	Stipulation of RFP shall prevail



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			shall be accepted. In deck slab with girders or box, the minimum diameter of main reinforcement may be 12 mm. The minimum diameter of reinforcement for any structural member shall not be less than 10 mm. However, minimum diameter of vertical reinforcement in R.C.C. abutments and piers shall be 12/20/16/25/32 mm but spacing shall not be more than 200 mm. In deck slab with girders or box, maximum spacing of main steel shall not be more than 150 mm and secondary reinforcement (distribution) shall not be more than 200mm.		
58.	Volume III Technical Schedules	Schedule-D Clause 9.3 Page no 50,51	For pile caps adjacent to navigation spans and sub-surface obstructions, the top surface of the pile cap shall be set out at as per GAD relative to MSL. The pile cap top level is always above the MHWS and always visible to vessels using the navigation channel. Bridge piers/foundations adjacent to navigation channels shall be designed to resist potential ship impact forces. The bottom of the pile cap should not be in the splashing zone of the high tide level. The reinforcement will be fusion bond epoxy coated (FBEC).	Do Fusion bond epoxy coated reinforcement considered for pile caps only. Please confirm.	Please refer CSD.
59.	Volume III Technical Schedules	Schedule-D Clause 9.3.8.7 Page no 57 Proof consultant & Authority Engineer sequence of approval	The sequence of Approval of drawing for bridge shall be as follows: i) The Contractor shall submit detailed design through Proof and safety consultant to Authority Engineer for approval. ii) Approved design from Authority Engineer shall be submitted to IIT for Approval and then Authority Engineer will finally issue the GFC drawing.	The provided sequence contradicts with Clause 10.2, 10.2.2, 10.2.3, 10.2.4 provided as part of Article - 1 Definitions and Interpretations where it states "The design shall be got vetted through IIT before submitting the final drawings to the Authority by the contractor at his own cost". Kindly confirm at what stage IIT needs to	Please refer CSD.

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				be involved and who will bear the expenses towards IIT.	
60.	Volume III Technical Schedules	Schedule-D Clause 12.2 Page no 67 Design Loads	Deck wearing surface (75mm), DW: 1.40 kPa, (2.0 kPa future allowance to be taken)	The deck wearing surface thickness is mentioned as 75mm. Kindly confirm the type of pavement to be used.	Please Refer CSD
61.	General	CAD Drawings Plan & Profile	N. A	Please provide the CAD versions of the drawings.	Attached with CSD
62.	General	Topo Drawings	N.A	Please provide the CAD copy of Topographic data of the project location	Attached with CSD
63.	Volume III Technical Schedules	Schedule D 15.3.1 Page no 76 Pile Foundations	While deciding the depth of foundation as per IRC-78 the embedment of pile foundation into rock shall be maximum 3xDia of pile	We understand that this has to be "...embedment of pile foundation into rock shall be minimum 3xDia of pile.", as this depends upon pile capacity requirement, etc,.. Kindly confirm.	Minimum Embedment is 3D however it can be increased as per design requirement.
64.	Volume III Technical Schedules	Schedule D 15.3.2 Page no 76 Pile Foundations	Only end bearing bored cast in situ piles drilled with rotary rig will be accepted	Does this mean that skin friction offered by soil (which is above rock) should not be considered?	Stipulation of RFP shall prevail
65.	Volume III Technical Schedules	Schedule D 15.3.2 Page no 76 Pile Foundations	Only end bearing bored cast in situ piles drilled with rotary rig will be accepted	We believe that socket friction offered by rock will be considered as a part of end bearing resistance. Kindly confirm.	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
66.	Volume III Technical Schedules	Cl. 9.3 Page no 50 (iv) Super structure	The following types of structural arrangement are not permitted: ..... (iv) A design in which stability of one or more spans is endangered due to failure of another span or spans.	Does this mean superstructures with diaphragm continuity or monolithic connection to piers are not allowed? Kindly confirm.	Stipulation of RFP shall prevail
67.	Volume III Technical Schedules	Cl. 12.2.6 Page no 69 Congestion factor	e) Congestion factor shall be considered as per IRC-6-2017 with impact without any reduction as per codal provision in longitudinal moment. f) The bridge shall also be designed for IRC loadings with assumption that the footpath provided, if any, will be removed in future and carriageway widened upto outer kerbs or railings and shall be designed for corresponding vehicular loading.	As it is mentioned in point f), the bridge shall be designed considering footpath as a part of carriageway, with that carriageway will be $13+1.5*2+0.5*2 = 17\text{m}$ . As per Table 6, of IRC:6-2017, carriage way of 17m need to be designed for 5 lanes of live load and as per table 8 of IRC:6-2017, for five or more than five lanes 20% of reduction factor can be considered for longitudinal moments and hence congestion factor will be applied considering this reduction factor only. Request to modify the clause "Congestion factor shall be considered as per IRC:6-2018 with impact as per codal provisions".	Stipulation of RFP shall prevail
68.	Volume III Technical Schedules	Cl 12.2.7 Page no 69 Wind forces	Wind loads on stay cables shall be based on PTI recommendations or any by any finalized codal provisions for stay cable design, testing and installation and the results of the aeroelastic modelling. For static modelling during the preliminary design phase, a drag coefficient (CD) of 1.2 will be adopted as per clause C 5.1.5.	Please clarify if drag coefficient CD of 1.2 to be adopted for stay cables or deck as well?	As per IRC-6 provisions

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
69.	Volume III Technical Schedules	Cl. 12.2.7 Page no 69 Wind forces	The IRC:6-2017 is not applicable to spans longer than 150 m and to cable-stayed bridges, and the assumptions of this code will only be adopted during the preliminary design phase. The site-specific wind loading and aerodynamic behavior of the bridge is proposed to be assessed by CFD analysis of the terrain and wind tunnel testing carried out through numerical simulations undertaken by an approved specialized laboratory to ensure the dynamic response of the structure is accurately accounted for. The cost of wind tunnelling shall be borne by contractor.	Please note that the main span of cable stay bridge is 120m which is less than 150m, hence provisions in IRC:6 can be adopted and further site-specific wind loading and aerodynamic behaviour of bridge assessment by CFD analysis is not applicable. Request to modify the clause accordingly.	Stipulation of RFP shall prevail
70.	Volume III Technical Schedules	Cl.1.1.3 B) Page no 8 Salient Features of the Project	Type of superstructure it is mentioned as cable stay bridge for navigational span and PSC structure for remaining length	It is understood that navigational span shall be designed considering the span arrangement and satisfying the navigational requirement. Please confirm whether contractor can propose Extradosed bridge as the main span is 120m only.	Please refer CSD
71.	Volume III Technical Schedules	Cl. 12.2.20 Page no 73 Special requirements for main pylons	It is mentioned as wall type pylon shall be adopted.	It is understood that Contractor can propose pylon satisfying the design requirements. Request to modify the clause as pylon shall be provided satisfying codal provisions.	Stipulation of RFP shall prevail
72.	Volume III Technical Schedules	Cl. 13 73 P Page no 73 restressing steel (Post tensioning and stay cables)	-	Please specify the reference code to be followed for stay cables as IRC is silent of stay cable provisions. In general, all the stay cables / Extradosed bridge follow FIB bulletin 89. Kindly confirm whether contractor can follow FIB bulletin 89 for stay cables	As per design requirements

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
73.	Volume III Technical Schedules	Clause 16.13, 16.14 page no 76 to 78, Substructure		Please specify the relevancy of the clause to the project	Please refer CSD
74.	Volume III Technical Schedules	Cl.17-page no. 78, Superstructure	The cantilever projection of the slab in transverse direction shall not be more than 1.80 m	As the minimum deck width requirement is 18m, cantilever projection of slab will be more than 1.8m. Hence request to delete the clause or modify to maximum of 3.0m	Stipulation of RFP shall prevail
75.	Volume III Technical Schedules	Cl. 17 Page no 79 Superstructure	17.12) The entire box shall be a single unit without any construction joint in longitudinal direction.	It is unclear. Request to clarify	Stipulation of RFP shall prevail
76.	Volume III Technical Schedules	Cl. 17 Page no 80 Superstructure	17.14) (vi) In the absence of rigorous analysis (a) for the torsion moment (b) for forces due to restraints of warping torsion at ends, the design live load moments & shear force in the longitudinal direction shall be increased by 20% & transverse reinforcement steel be increased by 5%	Please note that considering 20% additional effects due to live load in longitudinal direction due to warping is quite high. In general, 5% additional is considered. Request to modify the clause.	Stipulation of RFP shall prevail
77.	Volume III Technical Schedules	Cl. 22 Page no 81 Wearing coat	A wearing coat of uniform thickness shall be provided for riding surface. It shall consist of 75 mm thick M-50 grade Cement Concrete covered by 6 mm thick Asphaltic Concrete /Mastic Asphalt as specified in Annexure-1.	Provided wearing coat is not in line with standard MORTH requirements. Kindly confirm if the contractor should adopt MORTH specifications or Employer requirements.	<b>Please Refer CSD</b>

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification																														
78.	Volume III Technical Schedules	Cl 27 Page no 84 Table 5 Durability Recommendations	<p>Table 5 - Durability Recommendations</p> <table border="1"> <thead> <tr> <th>Element</th><th>Exposure Condition</th><th>Minimum water / cement ratio</th><th>Minimum cement content, kg/m<sup>3</sup></th><th>Minimum grade of concrete</th><th>Minimum Cover to reinforcement (mm)</th></tr> </thead> <tbody> <tr> <td>Concrete Deck</td><td>Severe</td><td>0.45</td><td>360</td><td>M60<sup>(1)</sup></td><td>45<sup>(2)</sup></td></tr> <tr> <td>Concrete Piers / Pylons</td><td>Severe</td><td>0.45</td><td>360</td><td>M45<sup>(1)</sup></td><td>45</td></tr> <tr> <td>Pier Caps / Boxed Piers / Abutment / Open Foundations / Walls</td><td>Severe</td><td>0.45</td><td>360</td><td>M45<sup>(1)</sup></td><td>75</td></tr> <tr> <td>Parapets</td><td>Severe</td><td>0.45</td><td>360</td><td>M45<sup>(1)</sup></td><td>45</td></tr> </tbody> </table>	Element	Exposure Condition	Minimum water / cement ratio	Minimum cement content, kg/m <sup>3</sup>	Minimum grade of concrete	Minimum Cover to reinforcement (mm)	Concrete Deck	Severe	0.45	360	M60 <sup>(1)</sup>	45 <sup>(2)</sup>	Concrete Piers / Pylons	Severe	0.45	360	M45 <sup>(1)</sup>	45	Pier Caps / Boxed Piers / Abutment / Open Foundations / Walls	Severe	0.45	360	M45 <sup>(1)</sup>	75	Parapets	Severe	0.45	360	M45 <sup>(1)</sup>	45	Please note that minimum grade of concrete for concrete deck is M60 is high. Whether contractor can propose with minimum grade of M50 or M55 based on design requirements	Stipulation of RFP shall prevail
Element	Exposure Condition	Minimum water / cement ratio	Minimum cement content, kg/m <sup>3</sup>	Minimum grade of concrete	Minimum Cover to reinforcement (mm)																														
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79.	Volume III Technical Schedules	Cl. 5.14 , Page no 105 References for stay cables	<p><b>References</b></p> <p>(1) PCI recommendations for Stay Cable design, testing and installation, fifth edition, 2007.</p> <p>(2) NFA 35-035 (Edition 2001): Hot Dip Zinc or Zinc-aluminum Coated Prestressing Smooth Wires and 7 Wire Strands.</p> <p>(3) ASTM D3350 (Edition 2010): Standard Specification for Polyethylene Plastics Pipes and Fittings Materials</p> <p>(4) fib bulletin 30/2005, Recommendation, Acceptance of stay cable systems using prestressing steel.</p> <p>Cable Stays Recommendations of French Interministerial Commission on Prestressing (Edition November 2001 in French, June 2002 in English)</p>	Please note that fib bulletin 30 is now replaced with fib bulletin 89. Hence Contractor will follow as per provisions in fib bulletin 89 for stay cable provisions.	Latest provisions can be followed																														
80.	Volume I - ITB	NIT. Vol 1 & RFP Vol-1 NIT Vol-1 Page no 1 RFP 1.1.1 Page no 6 Maintenance period	Maintenance Period:10 years from the date of completion	Request to reduce the Maintenance Period to 5 years.	Stipulation of RFP shall prevail																														
81.	Volume I - ITB	Cl 1.1.6, Page no 9	The statements and explanations contained in this RFP are intended to provide a better understanding to the Bidders about the subject matter of this RFP and should not be construed or interpreted as limiting in any way or manner the scope of services and obligations of the Contractor set forth in the	It is requested to delete Clause 1.16 of Section 1 of RFP. It may be difficult for any prudent Bidder to examine and verify such vast tender documents provided by the Authority and examine the Site of works in such short	Stipulation of RFP shall prevail																														

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			Agreement or the Authority 's rights to amend, alter, change, supplement or clarify the scope of work, the work to be awarded pursuant to this RFP or the terms thereof or herein contained. Consequently, any omissions, conflicts or contradictions in the Bidding Documents including this RFP are to be noted, interpreted and applied appropriately to give effect to this intent, and no claims on that account shall be entertained by the Authority.	period of time and heavy reliance shall be placed on the data as provided in the RFP. Any alteration shall be dealt with in accordance with the variation and claims procedures prescribed under the Contract.	
82.	Volume I - ITB	Section 2 Cl. 2.5.2- and 2.5.3-Page no 28 & 29	2.5.2 It shall be deemed that by submitting a BID, the Bidder has: (a) made a complete and careful examination of the Bidding Documents; Schedules annexed to EPC agreement Document; (b) received all relevant information requested from the Authority; (c) accepted the risk of inadequacy, error or mistake in the information provided in the Bidding Documents or furnished by or on behalf of the Authority relating to any of the matters referred to in Clause 2.5.1 above. No claim shall be admissible at any stage on this account. (d) satisfied himself about all matters, things and information including matters referred to in Clause 2.5.1 herein above necessary and required for submitting an informed BID, execution of the Project in accordance with the Bidding Documents and performance of all of its obligations there under; (e) acknowledged and agreed that inadequacy, lack of completeness or incorrectness of information provided in the Bidding Documents or ignorance of	It may be difficult for any prudent Bidder to examine and verify such vast tender documents provided by the Authority and examine the Site of works in such short period of time. It is requested to delete Cl. 2.5.2 and 2.5.3 and its reference in the Bidding Document and Contract.	Stipulation of RFP shall prevail



Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			<p>any of the matters referred to in Clause 2.5.1 hereinabove shall not be a basis for any claim for compensation, damages, extension of time for performance of its obligations, loss of profits etc. from the Authority, or a ground for termination of the Agreement by the Contractor;</p> <p>(f) acknowledged that it does not have a Conflict of Interest; and</p> <p>(g) agreed to be bound by the undertakings provided by it under and in terms hereof.</p> <p>2.5.3 The Authority shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to RFP, including any error or mistake therein or in any information or data given by the Authority.</p>		
83.	Volume I - ITB	Section 2 Cl. 2.21.2 Page no 40 Performance Security	The Performance Security shall be valid until 60 (sixty) days after the Defects Liability Period. The Additional Performance Security shall be valid until 28 (twenty-eight) days after Project Completion Date.	It is requested to release Performance Security to the Contractor upon issuance of the Completion Certificate.	Stipulation of RFP shall prevail
84.	Volume I - ITB	Section 6 Cl. 6.3 Page no 48	It shall be deemed that by submitting the Bid, the Bidder agrees and releases the Authority, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection with the Bidding Process and waives, to the fullest extent permitted by applicable laws, any	It is requested to delete Clause 6.3 of Section 6 of RFP.	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or in future.		
85.	Volume II Contract Agreement	Article 1 Cl. 1.2.1 (w) Page no 6	1.2.1 In this Agreement, unless the context otherwise requires, ..... (w) The damages payable by either Party to the other of them, as set forth in this Agreement, whether on per diem basis or otherwise, are mutually agreed genuine pre-estimated loss and damage likely to be suffered and incurred by the Party entitled to receive the same and are not by way of penalty (the "Damages"); and....	Bidder request to make provision for entitling the damages incurred by the bidder as actuals, as it is not possible for the proposed bidder to pre-estimate the loss and damages at this juncture without knowing the impact.	Stipulation of RFP shall prevail
86.	Volume II Contract Agreement	Article 3 Cl. 3.8 Page no 14 Unforeseen difficulties	Except as otherwise stated in the Agreement: (a) the Contractor accepts complete responsibility for having foreseen all difficulties and costs of successfully completing the Works; (b) the Contract Price shall not be adjusted to take account of any unforeseen difficulties or costs; and (c) The Scheduled Completion Date shall not be adjusted to take account of any unforeseen difficulties or costs.	Bidder requests to delete this provision.	Stipulation of RFP shall prevail
87.	Volume II Contract Agreement	Article 3 Cl. 3.9 i Page no 15 Co-ordination of the Works	The Contractor acknowledges that in addition to the Agreement, it is also aware of terms of the other Project contracts and other agreements the Authority has negotiated and entered into for performance of its obligations under the Agreement. ...	It may be difficult for any prudent Bidder to examine and verify and understand the terms and conditions of contracts entered or to be entered by Authority with other contractors for other Projects in such short period of time. It is requested to provide copies of the terms of the other	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				Project contracts and other agreements the Authority has negotiated and entered into or likely to enter, to understand the consequences and provide reasonable time to give its concurrence.	
88.	Volume II Contract Agreement	Article 3 Cl. 3.9 ii Page no 15 Co-ordination of the Works	The Contractor shall be responsible for the co-ordination and proper provision of the Works, including co-ordination of other Contractors or Sub contractors for the Project. The Contractor shall cooperate with the Authority in the co-ordination of the Works with the works under the other Project contracts. The Contractor shall provide all reasonable support for carrying out their work to: (a) any other contractors employed by the Authority;.....	The Contractor should be entitled for reasonable time and cost in case of any delay and damages on account of such works by contractors, workmen or persons as mentioned in the Clause 3.9. ii. The Bidder requests suitable modification to Clause accordingly.	Stipulation of RFP shall prevail
89.	Volume II Contract Agreement	Article 3 Page no 16	The Contractor shall be deemed to have inspected and examined the Site and its surroundings and to have satisfied himself before entering into the Agreement in all material respects including but not limited to: i) the form and nature of the Site (including, inter-alia, the water surface and adjacent land subsurface / subsurface conditions and geo-technical factors, Topography);	It may be difficult for any prudent Bidder to examine the Site of works and other factors in such short period of time. It is requested to delete Cl. 3.11.	Stipulation of RFP shall prevail
90.	Volume II Contract Agreement	Article 4 Cl. 4.1.4 Page no 17	Delay in providing the Right of Way or approval of GAD by competent authorities, as the case may be, in accordance with the provisions of Clause, 4.1.3, the Contractor shall not be entitled for Damages in a sum calculated in accordance with the provisions of Clause 8.3 of this Agreement however entitle for Time Extension in accordance with the provisions of	The Contractor should be entitled for reasonable extension of time and actual cost in case of any delay in providing the Right of Way or approval of GAD by competent authorities.	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			Clause 10.5 of this Agreement.		
91.	Volume II Contract Agreement	Article 6 Cl 6.1 Page no 23	6.1 Disclaimer 6.1.1 The Contractor acknowledges that prior to the execution of this Agreement, the Contractor has, after a complete and careful examination, made an independent evaluation of the Request for Proposal, Scope of the Project, Specifications and Standards of design, construction and maintenance, Site, local conditions, services to be shifted, physical qualities of ground, subsoil and geology, traffic volumes, diversions, suitability and availability of access routes to the Site and all information provided by the Authority or ....	It may be difficult for any prudent Bidder to examine the Site of works and other factors in such short period of time. It is requested to delete Article 6.	Stipulation of RFP shall prevail
92.	Volume II Contract Agreement	Article 7 Cl. 7.1.1 Page no 25 Performance Security	The Contractor shall, for the performance of its obligations hereunder during the Construction Period, provide to the Authority, within 30 (thirty) days of receipt of Letter of Acceptance, an irrevocable and unconditional guarantee from a Bank in the form set forth in Schedule-G (the "Performance Security") for an amount equal to 5% (five percent) of the Contract Price. The Performance Security shall be valid until 60 (sixty) days after the Maintenance Period or the Defects Liability Period. Until.....	It is requested the validity of Performance Security to be up to issuance of the Completion Certificate.	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
93.	Volume II Contract Agreement	Article 7 Cl. 7.3.1 Page no 26 (Appropriation of Performance Security	Upon occurrence of a Contractor's Default, the Authority shall, without prejudice to its other rights and remedies hereunder or in law, be entitled to encash and appropriate the relevant amounts from the Performance Security as Damages for such Contractor's Default.	Bidder requests to delete this provision.	Stipulation of RFP shall prevail
94.	Volume II Contract Agreement	Article 7 Cl. 7.4.1 Page no 27 Performance Security	The Authority shall return the Performance Security to the Contractor within 60 (sixty) days of the later of the expiry of the Maintenance Period or the Defects Liability Period under this Agreement. Notwithstanding the aforesaid, the Parties agree that the Authority shall not be obliged to release the Performance Security until all Defects identified during the Defects Liability Period have been rectified.....	It is requested to release Performance Security to the Contractor upon issuance of the Completion Certificate.	Stipulation of RFP shall prevail
95.	Volume II Contract Agreement	Article 7 Cl. 7.5.5 Page no 28 Retention Money	The Parties agree that in the event of Termination of this Agreement, the Retention Money and the bank guarantees specified in this Clause 7.5 shall be treated as if they are Performance Security and shall be reckoned as such for the purposes of Termination Payment under Clause 23.6.	Bidder requests to delete this provision.	Stipulation of RFP shall prevail
96.	Volume II Contract Agreement	Article 8 Cl. 8.2.1 Page no 29 Procurement of the Site	The Authority Representative and the Contractor shall, within 30 (thirty) days of the date of this Agreement, inspect the Site and prepare a Handover Memorandum containing an inventory of the Site including the vacant and unencumbered land, buildings, structures, road works, trees and any other immovable property on or attached to the Site.	Bidder requests to provide current status of land under the possession of the Authority.	90% land of bridge proper is in possession of the Authority. Land acquisition for land for approaches is under process.

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
97.	Volume II Contract Agreement	Article 8 Cl. 8.2.2 Page no 29 Procurement of the Site	<p>Whenever the Authority is ready to hand over any part or parts of the Site .....</p> <p>If the contractor fails to join for site inspection or disputes the parts of the site available for work, the Authority's Engineer shall decide the parts of the site where work can be executed and notify to both the parties within 3 days of the proposed date of inspection. The parties agree that such notification of the Authority's Engineer as mentioned hereinabove shall be final and binding on the parties.</p>	<p>Bidder requests to delete the concluding para of this provision i.e.,</p> <p>"If the contractor fails to join for site inspection or disputes the parts of the site available for work, the Authority's Engineer shall decide the parts of the site where work can be executed and notify to both the parties within 3 days of the proposed date of inspection. The parties agree that such notification of the Authority's Engineer as mentioned hereinabove shall be final and binding on the parties."</p>	Stipulation of RFP shall prevail
98.	Volume II Contract Agreement	Article 8 Cl. 8.2.3 Page no 30	The Authority shall provide the Right of Way to the Contractor in respect of all land included in the Appendix by the date specified in Schedule-A for those parts of the Site referred to therein, and in the event of delay for any reason other than Force Majeure or breach of this Agreement by the Contractor, it shall pay to the Contractor, Damages in a sum calculated in accordance with Clause 8.3. The Contractor agrees that it shall not be entitled to claim any other damages on account of any such delay by the Authority	Bidder request to provide damages as per actuals since the consequences for delay caused by action of one party cannot be imposed on other.	Stipulation of RFP shall prevail
99.	Volume II Contract Agreement	Article 8 Cl. 8.3.1 Page no 30 Damages for delay in handing over the Site	In the event the Right of Way to any part of the Site is not provided by the Authority on or before the date(s) specified in Clause 8.2 for any reason other than Force Majeure or breach of this Agreement by the Contractor, the Authority shall pay Damages to the Contractor in a sum calculated in accordance	Bidder request to provide damages as per actuals since the consequences for delay caused by action of one party cannot be imposed on other.	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			with the following formula for and in .....		
100.	Volume II Contract Agreement	Article 8 Cl. 8.4 Page no 31 & 32	Subject to the provisions of Clause 8.2, the Site shall be made available by the Authority to the Contractor pursuant hereto free from all Encumbrances and occupations and without the Contractor being required to make any payment to the Authority on account of any costs, compensation, expenses and charges for the acquisition and use of such Site for the duration of the Project Completion Schedule. For the avoidance of doubt, it is agreed that the existing rights of way, easements, privileges, liberties and appurtenances to the Site shall not be deemed to be Encumbrances. It is further agreed that, unless otherwise specified in this Agreement, the Contractor accepts and undertakes to bear any and all risks arising out of the inadequacy or physical condition of the Site.	Bidder requests to delete the concluding para of this provision i.e.,  “It is further agreed that, unless otherwise specified in this Agreement, the Contractor accepts and undertakes to bear any and all risks arising out of the inadequacy or physical condition of the Site	Stipulation of RFP shall prevail
101.	Volume II Contract Agreement	Article 9 Cl. 9.2 Page no 34 Shifting of obstructing utilities)	The Contractor shall, in accordance with Applicable Laws and with assistance of the Authority, cause shifting of any utility (including electric lines, water pipes and telephone cables) to an appropriate location or alignment, if such utility or obstruction adversely affects the execution of Works or Maintenance of the Project in accordance with this Agreement. The actual cost of such shifting, as approved and communicated by the entity owning the utility, shall be paid by the Contractor and	Bidder request to provide the status of sanction of utility shifting estimates by the competent authority of the Authority and also the status of deposition of the supervision charges.	Stipulation of RFP shall prevail



Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			reimbursed by the Authority to the Contractor. In the event of any delay in such shifting by the entity owning the utility beyond a period of 365 (three hundred and sixty five) days from the date of notice by the Contractor to the entity owning the utility and to the Authority, the Contractor shall be entitled to Time Extension in accordance with Clause 10.5 for and in respect of the part(s) of the Works affected by such delay; provided that if the delays involve any time overlaps, the overlaps shall not be additive.		
102.	Volume II Contract Agreement	Article 9 Cl. 9.4 Page no 35 Felling of trees	..... For the avoidance of doubt, the Parties agree that if any felling of trees hereunder is in a forest area, the Applicable Permit thereof shall be procured by the Contractor within the time specified in the Agreement.	Request to provide details and number of trees identified by Authority and the status of Applicable Permits for felling of trees and also the status of deposition of demand amount by the concerned departments. Further, Bidder request to specify the time limit in the Agreement by which the Authority will procure the necessary applicable permits required for felling of trees. Bidder request to confirm the modality of reimbursement of the cost incurred by the Contractor for felling of the trees.	
103.	Volume II Contract Agreement	Article 9 Cl. 9.6 Page no 36 Development Period	The Contractor may commence pre-construction activities like site investigations, design approvals, utility shifting, data collection or any other activity and required approval assigned to the Contractor by the Authority to enable construction of the Proposed Bridge immediately after signing of the Agreement, to the extent that such work is ready for execution.	It is understood that Authority must have acquired sufficient land and shall provide complete details along with applicable permit for felling of trees latest by the date of signing of Agreement so that dismantling of structures, shifting of utilities, felling of trees, etc. could be	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			The Parties agree that these works may be taken up and completed to the extent feasible by the Contractor, before declaration of the Appointed Date, but no claim against the Authority for delay shall survive during this period and that the undertaking of these works by the Contractor shall not count towards the Scheduled Construction Period of the project which starts counting only from the Appointed Date. No construction activity of the Proposed Bridge shall be undertaken during the development period.	taken-up by the Contractor at the earliest convenience.	
104.	Volume II Contract Agreement	Article 10 Cl 10.2.5 (c) Page no 40 Design and Drawings	within 15 (fifteen) days of the receipt of the Drawings, the Authority's Engineer shall review the same and convey its observations to the Contractor with particular reference to their conformity or otherwise with the Scope of the Project and the Specifications and Standards. The Contractor shall not be obliged to await the observations of the Authority's Engineer on the Drawings submitted pursuant hereto beyond the said period of 15 (fifteen) days and may begin or continue Works at its own discretion and risk; Provided Major Bridge or Structure, the aforesaid period of 15 (fifteen) days may be extended upto 30 (thirty) days;	Any changes proposed or instructed after the prescribed period of review or after the Contractor continues the work as outlined under this clause, any time and cost impact arising out of such revision or change instruction of the drawings; shall be construed as Authority's risk and the Contractor shall be suitably compensated for it.	Stipulation of RFP shall prevail
105.	Volume II Contract Agreement	Article 10 Cl 10.2.5 (h) Page no 40 Design and Drawings	.....  (h) the Contractor shall ensure that all the designs and drawings shall be approved from the Authority's Engineer within 90 days (ninety) from the Appointed Date.	The Bidder understands, before declaring the Appointed Date, 90% of ROW shall be made available to the Contractor, subject to its consent with regard to receipt of the same, as per the process prescribed in Article 3 and 8 of this Agreement. This may facilitate the	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				Contractor to plan and design the Project works without any ambiguity and get the design and drawings approved from the Authority's Engineer within 90 days.	
106.	Volume II Contract Agreement	Article 10 10.2.6 Page no 41 Design and Drawings	Any cost or delay in construction arising from review by the Authority's Engineer shall be borne by the Contractor.	Bidder request for deletion of this condition. The delay caused by actions of one party cannot be imposed on other party.	Stipulation of RFP shall prevail
107.	Volume II Contract Agreement	Article 10 Cl. 10.3.2 (t) Page no 42 Construction of the Project	The Contractor shall construct the Project in accordance with the Project Completion Schedule set forth in Schedule-J. In the event that the Contractor fails to achieve any Project Milestone or the Scheduled Completion Date within a period of 30 (thirty) days from the date set forth in Schedule-J, unless such failure has occurred due to Force Majeure or for reasons solely attributable to the Authority, it shall pay Damages to the Authority of a sum calculated at the rate of 0.05% (zero point zero five percent) of the Contract Price for delay of each day reckoned from the date specified in Schedule –J and until such Project Milestone is achieved or the Works .....	The Bidder understands that damages levied in case of slippage of any intermediate milestone shall be refunded immediately once the Contractor achieves the succeeding milestone within approved date.	Stipulation of RFP shall prevail
108.	Volume II Contract Agreement	Article 10 Cl. 10.5.4 Page no 44 Extension of time for completion	..... The Authority's Engineer shall, within a period of 60 (sixty) days from the date of receipt of such clarifications, forward in writing to the Contractor its determination of Time Extension.	Bidder understand that pending the determination of Contractor's request for extension of time, no deduction of damages and/ or no restriction on price adjustment shall be affected by the Authority.	Stipulation of RFP shall prevail
109.	Volume II Contract	Article 10 Cl. 10.6 Page no 44	In the event the Contractor fails to complete the Works in accordance with the Project Completion	The Bidder understand, the Contractor shall be liable to pay damages only in	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
	Agreement	& 45 Incomplete Works	Schedule, including any Time Extension granted under this Agreement, the Contractor shall endeavour to complete the balance work expeditiously and shall pay Damages to the Authority in accordance with the provisions of Clause 10.3.2 for delay of each day until the Works are completed in accordance with the provisions of this Agreement. Recovery of Damages under this Clause shall be without prejudice to the rights of the Authority under this Agreement including the right to termination under Clause 23.1.	case if the delays are due to Contractor's defaults.	
110.	Volume II Contract Agreement	Article 12 Cl. 12.2.1 Page no 55 Provisional Certificate	Subject to the provisions of Clause 12.2.5, upon completion of all Works forming part of the Project, save and except the Works for which Time Extension has been granted under Clause 10.5, the Authority's Engineer shall, at the request of the Contractor, issue a provisional certificate of completion substantially in the form set forth in Schedule-L (the "Provisional Certificate") if the Tests for and in respect of the completed Works are successful. The Provisional Certificate shall have appended thereto a list of outstanding items of work (the "Punch List") that need to be completed in accordance with the provisions of this Agreement. The Contractor undertakes to complete the minor outstanding items of works in respect of those Sections of the Project for which the Provisional Certificate has been issued, within a period of 30 (thirty) days of the date of Provisional Certificate, and those parts of the Works in respect of which Time Extension has been granted, within the	The Bidder requests the Authority to add provision for descoping the works listed in Punch List along with Provisional Certificate, without any negative cost to the Contractor, which are of such nature that are impossible or difficult to be complete in allowed time for reasons beyond the control of the parties.	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			extended period thereof. For the avoidance of doubt, the Parties agree that the Punch List shall include all Works for which Time Extension has been granted and shall also include any minor outstanding items of work forming part of the completed Sections if such works do not materially affect the use of the completed Sections for their intended purpose. The Parties further agree that Provisional Certificate shall not be issued if the completed Works cannot be safely and reliably placed in service of the Users thereof.		
111.	Volume II Contract Agreement	Cl. 13.1.2 Article 13 Page no 58 Change of Scope	Provided that any such Change of Scope, excluding major structures (e.g. Major Bridge/ ROB/ RUB/ Flyover/ elevated road of more than 50 m length) may be required and agreed to be executed between the parties beyond the period of six months of the Appointed Date but before expiry of 50% of the original Scheduled Construction Period of the Project expressway , subject to the condition that it shall not entail any claims (e.g. Extension of Time/ Prolongation related claims), against the Authority.	The Bidder requests to delete Clause 13.1.2. The Bidder requests to include provision for additional time and cost for an additional and Change of Scope works.	Stipulation of RFP shall prevail
112.	Volume II Contract Agreement	Article 13 Cl. 13.2.4 (a) Page no 59 Change of Scope	.....For works which are not included under Schedule of Rates for Change of Scope & not included in Schedule of Rates (SOR) of concerned circle of State's Public Works Department; .....  For the avoidance of doubt, in case the cost as determined by the Contractor and the Authority reveals a difference of more than 10% (ten per cent), the cost as determined by the Authority shall be considered as final and binding on the Contractor	The Bidder requests to delete the concluding para of the Clause 13.2.4 a i.e.,  “For the avoidance of doubt, in case the cost as determined by the Contractor and the Authority reveals a difference of more than 10% (ten per cent), the cost as determined by the Authority shall be considered as final and binding on the	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				Contractor.	
113.	Volume II Contract Agreement	Article 13 Cl. 13.6 Page no 62	Schedule of Rates for Change of Scope.	The Bidder requests to include provision to update the rates provided in the table as actual prevailing at the time of execution of Change of Scope works.	Stipulation of RFP shall prevail
114.	Volume II Contract Agreement	Article 14 Cl. 14.1.1 Page no 63 Maintenance Obligation of the Contractor	The Contractor shall maintain the Project for a period of 10 (ten) years commencing from the date of the Provisional Certificate (the "Maintenance Period"). For the performance of its Maintenance obligations, the contractor shall be paid 0.25% of the Contract Price for the first year and 0.5%, 0.75% , 1% of the Contract Price for the second, third and fourth year respectively in case of road projects. ....	Bidder request to reduce the Maintenance Period to 5 Years from the date of the Completion Certificate.	Stipulation of RFP shall prevail
115.	Volume II Contract Agreement	Article 14 Cl. 14.5.2 Page no 65 Lane Closure	Upon receiving the permission pursuant to Clause 14.5.1, the Contractor shall be entitled to close the designated lane for the period specified therein, and in the event of any delay in re-opening such lane, the Contractor shall, for every stretch of 250 (two hundred and fifty) metres, or part thereof, pay Damages to the Authority calculated at the rate of 0.1% (zero point one per cent) of the monthly maintenance payment for each day of delay until the lane has been re-opened for traffic.	The Bidder request to delete the Damages provision in the clause.	Stipulation of RFP shall prevail
116.	Volume II Contract Agreement	Article 14 Cl. 14.7 Page no 65 & 66	In the event the Contractor does not maintain and/or repair the Project expressway or any part thereof in conformity with the Maintenance Requirements, the	The Bidder understands the Contractor shall be liable to pay cost and damages only in case of Contractor's defaults and	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
	t		Maintenance Manual or the Maintenance Programme, as the case may be, and fails to commence remedial works within 15 (fifteen) days of receipt of the Maintenance Inspection Report under Clause 15.2 or a notice in this behalf from the Authority or the Authority's Engineer, as the case may be, the Authority shall, without prejudice to its rights under this Agreement including Termination thereof, be entitled to undertake such remedial measures at the cost of the Contractor, and to recover its cost from the Contractor. In addition to recovery of the aforesaid cost, a sum equal to 20% (twenty per cent) of such cost shall be paid by the Contractor to the Authority as Damages.	not the reasons which are beyond its control and responsibility.	
117.	Volume II Contract Agreement t	Article 17 Cl. 17.1.1 Page no 71 Defects Liability Period	The Contractor shall be responsible for all the Defects and deficiencies in the Project or any Section thereof, till the expiry of a period of 10 (Ten) years commencing from the date of Provisional Certificate (the "Defects Liability Period"). Provided that the Defects Liability Period shall in no case be less than 120 (one hundred twenty) months from the date of Completion Certificate for and in respect of works for which Time Extension was granted.	Bidder request to reduce the Defects Liability Period to 3 years from the Completion Certificate.	Stipulation of RFP shall prevail
118.	Volume II Contract Agreement t	Article 17 Cl. 17.5.2 Page no 72 (Defects Liability Period)	In the event any Defect identified under Clause 17.5.1 is attributable to the Contractor, the Contractor shall rectify such Defect within the period specified by the Authority's Engineer, and shall bear the cost of the examination and rectification of such Defect.	The Bidder understands in case such Defect is not attributable to the Contractor, the Authority's Engineer shall, after due consultation with the Authority and the Contractor, determine the costs incurred by the Contractor on such examination and notify the same to the	Stipulation of RFP shall prevail



Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				Contractor, with a copy to the Authority, and the Contractor shall be entitled to payment of such costs by the Authority.	
119.	Volume II Contract Agreement	Article 18 Cl. 18.2 Page no 73 (Duties and authority of the Authority's Engineer)	The Authority's Engineer shall perform the duties and exercise the authority in accordance with the provisions of this Agreement, and substantially in accordance with the terms of reference ("Terms of Reference" or "TOR") set forth in Annex 1 of Schedule N, but subject to obtaining prior written approval of the Authority before determining: (a) any Time Extension; (b) .....	Bidder request prior approval of the Authority to determination of Authority's Engineer as required under this provision may be issued by Authority in reasonable time and within 15 days from such determination of Authority's Engineer.	Stipulation of RFP shall prevail
120.	Volume II Contract Agreement	Article 19 Cl. 19.1.2 Page no 77	The Contract Price includes all duties, taxes (excluding GST), royalty and fees that may be levied in accordance with the laws and regulations in force as on the Base Date on the Contractor's equipment, Plant, Materials and supplies acquired for the purpose of this Agreement and on the services performed under this Agreement. Nothing in this Agreement shall relieve the Contractor from its responsibility to pay any tax including any tax that may be levied in India on profits made by it in respect of this Agreement.	The Bidder requests to pass on the benefits of exemption of statutory taxes / charges (such as royalty), if any to the Contractor.	Stipulation of RFP shall prevail
121.	Volume II Contract Agreement	Article 19 Cl. 19.2.1 & Cl. 19.2.6 Page no 77 & 78 Advance Payment	Cl 19.2.1: The Authority shall make an interest-bearing @ SBI MCLR + 3% annual compounding rate advance payment (the "Advance Payment"), equal in amount to 10 (ten) percent of the Contract Price, exclusive for mobilisation expenses. The Advance Payment for mobilisation expenses shall be	Bidder requests to make advance payment as an interest free advance and the recovery of advance to be linked pro-rata with invoicing and recovery to start after 20% invoicing is achieved and completes when 90% invoicing is	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			<p>made in two instalments each equal to 5% (five percent) of the Contract Price. The second 5% (five percent) mobilisation advance would be released after submission of utilization certificate by the Contractor for the first 5% advance already released earlier.....</p> <p>Cl 19.2.6: The advance payment shall be repaid through percentage deductions from the stage payments determined by the Authority's Engineer in accordance with Sub-Clause 19.5, as follows: (a) Deductions shall be made at the rate of 30% (thirty percent) of each Stage Payment Statement until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the time when 80% (80 percent) of the Contract Price has been certified for payment.</p>	achieved.	
122.	Volume II Contract Agreement	Article 19 19.2.3 Page no 78 Advance Payment	The Contractor may apply to the Authority for the first instalment of the Advance Payment at any time after the Appointed Date, along with an irrevocable and unconditional guarantee from a Bank for an amount equivalent to 110% (one hundred and ten per cent) of such instalment, substantially in the form provided at Annex-III of Schedule-G, to remain effective till the complete and full repayment thereof.	Bidder request to reduce the value of guarantee to 100% of value of each instalment of advance payment.	Stipulation of RFP shall prevail
123.	Volume II Contract Agreement	Article 19 19.2.4 Page no 78 Advance Payment	At any time, after 60 (sixty) days from the Appointed Date, the Contractor may apply to the Authority for the second instalment of the Advance Payment along with an irrevocable and	Bidder request to reduce the value of guarantee to 100% of value of each instalment of advance payment.	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			unconditional guarantee from a Bank for an amount equivalent to 110% (one hundred and ten per cent) of such instalment, substantially in the form provided at Annex-III of Schedule-G, to remain effective till the complete and full repayment thereof.		
124.	Volume II Contract Agreement	Article 19 Cl 19.11 Page no 85 Restrictions on price adjustment	Price adjustment shall be due and payable only in respect of the stages of Works for which the Stage Payment Statement has been submitted by the Contractor no later than 30 (thirty) days from the date of the applicable Project Milestone or the Scheduled Completion Date, as the case may be, including any Time Extension granted therefor in accordance with the provisions of this Agreement.....	Bidder understand that this condition will not apply in case the Contractor's application for Time Extension is under review and determination is awaited.	Stipulation of RFP shall prevail
125.	Volume II Contract Agreement	Article 26 Cl 26.3 Page no 116 Arbitration	Any Dispute which is not resolved amicably by conciliation, as provided in Clause 26.2, shall be finally settled by with the rules of Arbitration and Conciliation Act, 1996.	The Bidder understand Arbitration to be carried by a board of Arbitrators comprising of three members. Each party shall nominate one Arbitrator and the nominated Arbitrators shall appoint the Presiding Arbitrator. The seat and venue of the Arbitration shall be Mumbai.	Stipulation of RFP shall prevail
126.	Volume II Contract Agreement	General (proposed addition of this clause to RFP)	Interim Payment against Award	It is requested to incorporate the following provision under Article 26 in accordance with Standard EPC Agreement approved by MoRTH.  In the event the Arbitral Tribunal adjudicate the dispute in favour of the Contractor and if the Authority challenges the Award for any reason in a court of	Stipulation of RFP shall prevail

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				law, it shall make an interim payment to the Contractor for an amount equal to 75% (seventy-five per cent) of the Award, pending final settlement of the Dispute. The aforesaid amount shall be paid forthwith upon furnishing an irrevocable Bank Guarantee for a sum equal to 100 % of the aforesaid amount. Upon final settlement of the Dispute, the aforesaid interim payment shall be adjusted and any balance amount due to be paid or returned, as the case may be, shall be paid or returned with interest calculated at the rate of interest specified in the Contract per annum from the date of interim payment to the date of final settlement of such balance.	
127.	Volume II Contract Agreement	General		It is requested to incorporate a suitable provision for suspension upon Authority's Default under Article 22.	
128.	Volume II Contract Agreement	Cl. 28.1 Page no 126 & 127 Definitions, Appointed Date	"Appointed Date" means that date which is later of the date on which the Contractor has delivered the Performance Security in accordance with the provisions of Article 7 and the date on which the Authority has provided the working front not less than 80% (Ninety per cent) of the total length of Project;	Bidder requests the Authority to modify the Clause as under: "Appointed Date" means the date declared by the Authority as the project commencement date after providing 90% of ROW to the Contractor and subsequent consent of the Contractor with regard to receipt of the same, as per the process prescribed in Article 4 and 8 of this Agreement;	Refer CSD

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
129.	Volume III Technical Schedules	Schedule-D Cl. 11.2 Page no 62	Authority Engineer will decide the locations of initial and routine horizontal and vertical load test. One no. initial load test is to be performed in each km for each diameter of pile being used in viaduct. The contractor shall undertake test piles required for initial pile load test in the initial stages of work using the same methodology and equipment's which will be subsequently used for working piles. These tests shall be undertaken well in advance of working pile. No working pile would be allowed to undertaken till initial satisfactory initial pile load tests have been completed. Non-granting of permission for pile/ pile cap by Engineer in such respect will not be considered as reason for delay or any claim thereof. The test arrangement to be employed shall be of nature which is quick to install and remove and easily transferable. At every one KM initial load tests both vertical and horizontal is to be performed by the contractor.	Bidder requests to delete this clause. The Authority Engineer shall give instructions/ approval in timely manner, any delay on delivering AE's obligations as mentioned under this clause, the Contractor shall be suitably compensated for additional cost and time as the case may be.	Stipulation of RFP shall prevail
130.	Volume III Technical Schedules	Schedule-A , 11 , Annexure IV: Environmental clearance,	MSRDC shall provide Necessary assistance to the EPC contractor for obtaining necessary clearances..... However, the responsibility of obtaining necessary clearances shall be with EPC contractor. No payments shall be paid by Authority for idling resources due to delay in such case.	Bidder requests that all the approvals and clearances necessary for the projects shall be obtained by the Authority.  The Contractor should be entitled for reasonable extension of time and actual cost in case of any delay in obtaining approval/ clearances from the respective Government Authorities.	Stipulation of RFP shall prevail
131.	Volume I - ITB	<b>2.2.2.2 (ii) For normal Highway</b>	Applicant should have completed one Creek bridge/ Perennial River bridge of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed	We request you to modify the criteria given below. It will enable more bidders to bid for the project leading to healthy	Please refer CSD

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
		<b>projects (including Major Bridges / ROB / Flyovers / Tunnels):</b> Page No.21	Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.	competition.  Applicant should have completed one Creek bridge/ Perennial River bridge/Railway Bridge of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.  <u>AND</u> Applicant should have experience of one Creek bridge/ Perennial River bridge having 4 lane/ 2 lane carriageway in last 7 years updated to CSR.	
132.	<b>Volume-I ITB</b>	<b>General terms of bidding Cl.2.2.1 page no 13</b>	“Joint Venture bidding is not allowed for implementing the project.”	Considering the specialised prequalification criteria mentioned in the tender, department shall allow joint venture bidding for this tender. This will allow competent bidder bidders to participate and submit competitive bids.	Stipulation of RFP shall prevail.
133.	<b>Volume-I ITB</b>	Technical Capacity 2.2.2.2 (ii) Page no 21	<b>For normal Highway projects (including Major Bridges / ROB / Flyovers / Tunnels):</b> Provided that Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or Category 3 specified in Clause 2.2.2.5.	<b>For normal Highway projects (including Major Bridges / ROB / Flyovers / Tunnels):</b> Provided that Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or	Please Refer CSD

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			<p>Applicant should have completed one Creek bridge/ Perennial River bridge of minimum <b>3500 m length</b> having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of <b>120m</b> amounting not less than <b>Rs 650 Cr. (INR. Six hundred Fifty Crore)</b> in last 5 years updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below</p>	<p>Category 3 specified in Clause 2.2.2.5.</p> <p>Applicant should have completed one Creek bridge/ Perennial River bridge of minimum <b>3500 m length</b> having 4 lane/ 2 lane carriageway with <b>Cable stayed Bridge/Extra dosed bridge span</b> consisting of Minimum obligatory span of <b>110m</b> amounting not less than <b>Rs 650 Cr. (INR. Six hundred Fifty Crore)</b> in last 5 years updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below</p>	
134.	<b>Volume-I ITB</b>	Technical Capacity 2.2.2.3 (i) Page no 22	The Bidder shall have a minimum Net Worth (the <b>“Financial Capacity”</b> ) of <b>INR. 203 Cr (INR Two Hundred Three Crore)</b> at the close of the preceding financial year.	The Bidder shall have a minimum Net Worth (the <b>“Financial Capacity”</b> ) exceeding <b>INR. 100 Cr</b> (at the close of the preceding financial year.	Stipulation of RFP shall prevail.
135.	<b>Volume-I ITB</b>	Technical Capacity 2.2.2.2 (iii) Page no 22	For this purpose, a project shall be considered to be completed, if more than 90% of the value of work has been completed and such completed value of work is equal to or more than 20% of the estimated project cost.	For this purpose, a project shall be considered to be completed, if more than <b>80%</b> of the value of work has been completed and such completed value of work is equal to or more than 20% of the estimated project cost.	Stipulation of RFP shall prevail.
136.			<b>Bridge configuration &amp; structure type</b>	Bidder can adopt any type of superstructure & configuration for the bridge, kindly confirm.	Please Refer CSD
137.				It is understood that the EPC contractor can change the span lengths except for the navigational spans of 120 m. Kindly	Please Refer CSD



Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				Confirm.	
138.				Bidder can adopt structurally continues girders, kindly confirm.	Please Refer CSD
139.				Bidder can adopt any type, configuration & dimension of substructure & foundation for bridges, kindly confirm.	Please Refer CSD
140.				for navigational span pylon shape can be selected based on the actual design & behaviour, kindly confirm.	Please Refer CSD
141.				For navigational span, fender system can be selected based on actual design & behaviour, kindly confirm.	Please Refer CSD
142.			Bearings	Pot-PTFE bearings are mentioned. Please confirm if elastomeric and/or spherical bearings can be provided.	Stipulation of RFP shall prevail.
143.			Congestion factor	Congestion factor shall not be used as per IRC 06-2017, kindly confirm.	Stipulation of RFP shall prevail.
144.			SV Loading	Special vehicle as per IRC 06-2017 shall be considered for the design, kindly confirm.	Stipulation of RFP shall prevail.
145.			Reference reports of various studies	Kindly provide following data for the project: -Topographical Survey data for the complete stretch -Native/CAD files of drawings -Native/CAD files of the alignment, plan & profile drawings -KMZ file	Attached with CSD

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
146.			Crash barrier	Kindly confirm the type of crash barrier required i.e. "Normal containment" or "High containment" crash barrier required for the main carriageway.	Stipulation of RFP shall prevail.
147.			Crash barrier	Metallic railing can be provided for footpath, kindly confirm.	Stipulation of RFP shall prevail.
148.			Foundation	Kindly confirm use of liners for pile foundation is not mandatory & can be selected based on the site conditions.	Stipulation of RFP shall prevail.
149.			Reinforcement & concrete grade	Grade of concrete, reinforcement & structural steel can be adopted based on the design requirement, kindly confirm.	Stipulation of RFP shall prevail.
150.			Seismic design	Importance factor shall be 1.2. Kindly confirm.	Stipulation of RFP shall prevail.
151.			Capacity design	Capacity design shall be carried out for structures as per IRC-SP-114-2018, kindly confirm.	Stipulation of RFP shall prevail.
152.			Approaches	Reinforced earth wall can be used at approaches, kindly confirm.	Stipulation of RFP shall prevail.
153.	Vol III Drawings	Drawings	Plan & Profile drawings	Request you to provide the road plan & profile drawings in CAD format along with the topography survey data.	Attached with CSD
154.	Vol III Drawings	Drawings		Kindly confirm, if any impact on the quantities arising due to correction of geometry will be treated as change of scope.	Stipulation of RFP shall prevail.

Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification									
155.	Vol III Technica 1 Schedule	Technical Schedule- A	Annex IV-Environment Clearances, CRZ Clearance, Navigational Clearance, Forest clearance for mangrove cutting	We understand that authority has obtained all Environmental permissions related to the project from respective authorities. All the necessary environmental permissions for the project throughout the project shall be obtained by authority. Kindly Confirm.	Stipulation of RFP shall prevail.									
156.	Vol III Technica 1 Schedule	Technical Schedule- A	Forest clearance and Mangrove cutting	Kindly confirm that department has obtained clearance from forest authorities and permissions for required mangrove cutting in this project.	Refer CSD									
157.	Vol-I ITB	NIT, Page - 4	No. of Years for completion of work- 30 calendar months including Monsoon	There is contradiction in these two statements. We request you to clarify the same.	Please refer CSD									
	Vol-I ITB	Section 1, Introduction Page - 9	No. of Years for completion of work- 36 calendar months including Monsoon											
158.	Vol-I ITB	Cl. 2.2.2 (ii), Page- 21	<p>Applicant should have completed one Creek bridge/ Perennial River bridge of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below:</p> <table><tr><th>Sr. No</th><th>No. of lanes for project for completed Bridge</th><th>Factor</th></tr><tr><td>1</td><td>Two lanes</td><td>1.00</td></tr><tr><td>2</td><td>Four lanes</td><td>2.00</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1.00	2	Four lanes	2.00	<p>We request you to modify the said clause as- Applicant should have executed one Creek bridge/ Perennial River bridge/Elevated road of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 600 Cr. (INR. Six hundred Crore) in last 5 years updated to CSR.</p> <p style="text-align: center;"><b>OR</b></p> <p>We request you to modify the said clause as- Applicant should have executed one Creek bridge/ Perennial River</p>	Please refer CSD
Sr. No	No. of lanes for project for completed Bridge	Factor												
1	Two lanes	1.00												
2	Four lanes	2.00												

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
				bridge/Elevated road of minimum 3500 m length having 4 lane/ 2 lane carriageway amounting not less than Rs 650 Cr. (INR. Eight hundred Crore) in last 5 years updated to CSR. AND Applicant should have completed one project of Cable stayed Bridge span consisting of Minimum obligatory span of 200m amounting not less than Rs 600 Cr in last 5 years updated to CSR.	
159.	Volume-I ITB	Cl. 2.2.2 (iii), Page- 22	For this purpose, a project shall be considered to be completed, if more than 90% of the value of work has been completed and such completed value of work is equal to or more than 20% of the estimated project cost.	We request you to amend the said clause as- For this purpose, a project shall be considered to be completed, if more than 85% of the value of work has been completed and such completed value of work is equal to or more than 20% of the estimated project cost.	Stipulation of RFP shall prevail.
160.	Volume-I ITB	Cl. 2.21.1, Page-39	Performance Security- Within 30 (thirty) days of receipt of Letter of Acceptance, the selected Bidder shall furnish to the Authority an irrevocable and unconditional guarantee from a Bank in the form set forth in Annex-I of Schedule-G (the "Performance Security") for an amount equal to 5% (Five percent) of its Bid Price.	We request you to reduce Performance security to the tune of 3% of its Bid Price.	Stipulation of RFP shall prevail.
161.	Volume-II EPC Agreement	Article- 7, 7.5, Page-27	Retention Money- From every payment for Works due to the Contractor in accordance with the provisions of Clause 19.5, the Authority shall deduct 5% (five per cent) thereof as guarantee money for performance of the obligations of the Contractor	We request you to reduce the amount of retention money to the tune of 2% of contract price.	Stipulation of RFP shall prevail.

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			during the Construction Period (the “Retention Money”) subject to the condition that the maximum amount of Retention Money shall not exceed 5% of the contract price.		
162.	Volume-II EPC Agreement	Article-19, 19.2.1,Page-77	Advance Payment- The Authority shall make an interest-bearing @ SBI MCLR + 3% annual compounding rate advance payment (the “Advance Payment”), equal in amount to 10 (ten) percent of the Contract Price, exclusive for mobilisation expenses.	We request you to allow 10% interest free mobilization advance or at current RBI rate to maintain cash flow.	Refer CSD
163.		Mahatender Portal	Uploading-Finance- xls	BOQ (In excel) for quote of financial bid is not uploaded. Please upload the same.	Contractor need not to submit the financial offer through excel sheet. It shall be submitted in Appendix –IB through online only.
164.	Vol-I ITB	Clause 2.2.2.2, (ii), Pg. 21  Technical Capacity,	Provided that Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or Category 3 specified in Clause 2.2.2.5. Applicant should have completed one Creek bridge/ Perennial River bridge of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.	Provided that Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or Category 3 specified in Clause 2.2.2.5. Applicant should have completed one Creek bridge/ Perennial River bridge of minimum <del>3500 m</del> <b>2500 m length</b> having 4 lane/ 2 lane carriageway / <b>Railway Bridge</b> with Cable stayed Bridge / <b>Steel Arch Bridge</b> span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.	Please refer CSD

Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification																								
165.	Vol-I ITB		<p>The length of bridge shall be calculated as per the factor given below</p> <table><tr><th>Sr. No</th><th>No. of lanes for project for completed Bridge</th><th>Factor</th></tr><tr><td>1</td><td>Two lanes</td><td>1.00</td></tr><tr><td>2</td><td>Four lanes</td><td>2.00</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1.00	2	Four lanes	2.00	<p>The length of bridge shall be calculated as per the factor given below</p> <table><tr><th>Sr. No</th><th>No. of lanes for project for completed Bridge</th><th>Factor</th></tr><tr><td>1</td><td>Two lanes</td><td>1</td></tr><tr><td>2</td><td>Four lanes</td><td>2</td></tr><tr><td>3</td><td>Single Track Railway Bridge</td><td>1</td></tr><tr><td>4</td><td>Double Track Railway Bridge</td><td>2</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1	2	Four lanes	2	3	Single Track Railway Bridge	1	4	Double Track Railway Bridge	2	Please refer CSD
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Sr. No	No. of lanes for project for completed Bridge	Factor																											
1	Two lanes	1																											
2	Four lanes	2																											
3	Single Track Railway Bridge	1																											
4	Double Track Railway Bridge	2																											
166.	Vol-I ITB	RFP clause no. 2.2.2.2 (v) Page 22 Technical Capacity	There should not be history of collapse due to failure of superstructure /substructure of any bridge / flyover / viaduct/metro line work during constructionin last 5 years. Undertaking in this regard shall be submitted along with biddocument.	There should not be history of collapse due to failure of superstructure / substructure of any bridge / flyover / viaduct/metro line work during construction in last <del>5 years</del> <b>2 Years i.e. from 1st January 2022</b> undertaking in this regard shall be submitted along with bid document.	Please refer CSD																								
167.	Vol-I ITB	Technical Capacity 2.2.2.2 Page no 21	<p><b>(ii) For normal Highway projects (including Major Bridges / ROB / Flyovers / Tunnels):</b></p> <p>Applicant should have completed one Creek bridge/ Perennial River bridge of minimum <b>3500 m length</b> having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of <b>120m</b> amounting not less than <b>Rs 650 Cr. (INR. Six hundred Fifty Crore)</b> in last 5 years updated to</p>	<p><b>We request the Authority to kindly review the similar work requirement as mentioned below which will enable more bidders participation in the bid and create healthy competition resulting into very competitive quotes to the Authority.</b></p> <p>Applicant should have completed one bridge work amounting not less than Rs.</p>	Please refer CSD																								

Sr. No.	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification
			CSR.	300 Cr.in a single project in the last 5years updated to CSR.  Please do the needful as required.	
168.		General	<b>Due Date extension</b>	We are keenly interested to participate in the above bid, but looking into the clarity required for participation in bid as requested above and looking into the size and complexity of project, we request the Authority to please extend the bid Due date of the Project by one month from date of reply from your end for submitting a comprehensive bid.	Stipulation of RFP shall prevail.
169.	<b>Volume-I ITB Section-2</b>	<b>General terms of bidding Cl.2.2.1 page no 13</b>	2.1.1 "No Contractor shall submit more than one Bid for the Project. A Contractor shall not be entitled to submit another bid. Joint Venture bidding is not allowed for implementing the project. Any reference to the Joint Venture will not have any inferences under the contract.	Considering the specialised nature of the project with specialized prequalification criteria mentioned in the tender, we request you to allow the joint venture bidding for this tender. This will allow competent bidders to participate and submit competitive bids.	Stipulation of RFP shall prevail.
170.	Volume-I ITB	2.2.2.2 (ii) Page No.21	For normal Highway projects (including Major Bridges / ROB / Flyovers / Tunnels):  Provided that Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or Category 3 specified in Clause 2.2.2.5.  Applicant should have completed one Creek bridge/	We would like to bring your attention that very few bidders in India have specialized qualification as mentioned in this clause. Hence for more competitiveness in the bidding process we would like to request you to consider similar work experience of project from 10  <b>(Ten) years and modify/ relax the criteria as follows:</b>	Please refer CSD



Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder	Reply/ Clarification												
			<p>Perennial River bridge of minimum 3500 m length having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of 120m amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last 5 years updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below –</p> <table><tr><td>Sr. No</td><td>No. of lanes for project for completed Bridge</td><td>Factor</td></tr><tr><td>1</td><td>Two lanes</td><td>1.00</td></tr><tr><td>2</td><td>Four lanes</td><td>2.00</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1.00	2	Four lanes	2.00	<p>For normal Highway projects (including Major Bridges / ROB / Flyovers / Tunnels):</p> <p>Applicant should have completed work mentioned under from the Eligible Projects in Category 1 and/or Category 3 specified in Clause 2.2.2.5.</p> <p>Applicant should have completed one Creek bridge/ <b>perennial River bridge</b> of minimum 3500 m length having 4 lane/ 2 lane carriageway amounting not less than Rs 650 Cr. (INR. Six hundred Fifty Crore) in last <b>10 years</b> updated to CSR.</p> <p>and</p> <p>Any one cable stayed Bridge with minimum Obligatory span of 120 m in last 10 years.</p> <p>The above both criteria can be meet as single project or from the two different projects.</p> <p>The length of bridge shall be calculated as per the factor given below –</p> <table><tr><td>Sr. No</td><td>No. of lanes for project</td><td>Factor</td></tr></table>	Sr. No	No. of lanes for project	Factor	
Sr. No	No. of lanes for project for completed Bridge	Factor															
1	Two lanes	1.00															
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Sr. No .	Volume No.	Document / Section/ Article and Clause /Sr. No, Page no.	Clause Description	Queries Raised by bidder			Reply/ Clarification
					completed Bridge		
				1	Two lanes	1.00	
				2	Four lanes	2.00	
171.	Volume-I ITB	Technical Capacity 2.2.2.3 (i)	The Bidder shall have a minimum Net Worth (the “Financial Capacity”) of INR. 203 Cr (INR Two Hundred Three Crore) at the close of the preceding financial year.	Due to pandemic in last few years civil industry facing financial constraints and by considering the MoRTH / NHIDCL/ NHPC has relaxed qualification criterias by issuing fresh guidelines. This is allowing more bidders to be part of the tendering process and client is receiving competitive bidding. On similar lines we request you to kindly modify the financial capacity clauses as below:  The Bidder shall have a minimum Net Worth (the “Financial Capacity”) of INR. 40 Cr (INR Forty Crore) 5% of the estimated cost) at the close of the preceding financial year.			Stipulation of RFP shall prevail.
172.	Volume-I ITB	2.2.2.3 (iii) Financial Capacity	An Applicant shall, in the last three financial years i.e., 2020-2021, 2021-22 and 2022-2023 have neither been a loss-making company nor been in the list of Corporate Debt Restructuring (CDR) and / or Strategic Debt Restructuring (SDR) and / or having been declared Insolvent.	This clause may please be deleted			Please refer CSD



Construction of Two-Lane Bridge across Agardanda Creek with approaches Connecting Tokekhar Tq. Murud and Turumbadi Tq. Mhasala in Raigad District on Revas-Redi Coastal Highway (MSH-04) in the State of Maharashtra on EPC Mode

Common Set of Deviations

Sub: RFP for Construction of Two-Lane Bridge across Agardanda Creek with approaches Connecting Tokekhar Tq. Murud and Turumbadi Tq. Mhasala in Raigad District on Revas-Redi Coastal Highway (MSH-04) in the State of Maharashtra on EPC Mode Common Set of Deviation (CSD)

E-Tender Notice No T-2722 (2023-24) dated 23.01.2024

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be					To be read as				
1	Volume-I ITB	Clause 1.1.1 page no 6	Brief Description of the Project is as under:					Brief Description of the Project is as under:				
			Name of work	Length in Km	Estimated cost (Excluding GST)	No. of Years for completion of work	Maintenance period	Name of work	Length in Km	Estimated cost (Excluding GST)	No. of Years for completion of work	Maintenance period
			Construction of Two-Lane Bridge across Agardanda Creek with approaches Connecting Agardanda Tq. Murud and Dighi Tq.	4.31 km bridge including Approaches (Bridge Proper- 4.120 km Approaches on	INR 809.89 Cr	36 Calendar months including Monsoon	10 years from the date of completion	Construction of Two-Lane Bridge across Agardanda Creek with approaches Connecting Agardanda Tq. Murud and Dighi	4.31 km bridge including Approaches (Bridge Proper- 4.120 km Approach	INR 809.89 Cr	30 Calendar months including Monsoon	5 years from the date of completion

CONTRACTOR

Page 1

MSRDC



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be					To be read as				
			Shrivardhan In Raigad District on Revas-Reddi Coastal Highway (MSH-04) In the State of Maharashtra	Agardanda Side - 0.045 km and Approach es on Dighi Side- 0.145 km)				Tq. Shrivardhan In Raigad District on Revas-Reddi Coastal Highway (MSH-04) In the State of Maharashtra	es on Agardanda Side - 0.045 km and Approach es on Dighi Side- 0.145 km)			
2	Volume-I ITB	2.2.2 Qualification requirements of Bidders:	<b>2.2.2.1 BID Capacity</b> Bidders who <i>interalia</i> meet the minimum qualification criteria will be qualified only if their available BID capacity is more than the total BID value (value as per Clause 1.1.1). The available BID capacity will be calculated as per following, based on information mentioned at Annexure-VI of Appendix-IA: Assessed Available BID capacity = $(A*N*2.5 - B + C)$ ,					<b>2.2.2.1 BID Capacity</b> Bidders who <i>interalia</i> meet the minimum qualification criteria will be qualified only if their available BID capacity is more than the total BID value (value as per Clause 1.1.1). The available BID capacity will be calculated as per following, based on information mentioned at Annexure-VI of Appendix-IA: Assessed Available BID capacity = $(A*N*2.0) - B$ ,				

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			<p>Where,</p> <p>N= Number of years prescribed for completion of work for which Bid is invited.</p> <p>A =Maximum value of civil engineering works excluding the amount of bonus received, if any, in respect of EPC Projects executed in any one year during the last five years (updated to the price level of the year indicated in table at Note-3 below) taking into account the completed as well as works in progress. The <b><u>EPC projects</u></b> include turnkey project/ Item rate contract/ Construction works.</p> <p>B = Value (updated to the price level of the year indicated in table at Note-3 below) of existing commitments, works for which the bidder has emerged as the winner of the bids or on-going works to be completed during the period of completion of the works for which BID is invited. For the sake of clarification, it is mentioned that works for which bidder has emerged as the winner of the bids but LOA has</p>	<p>Where,</p> <p>N= Number of years prescribed for completion of work for which Bid is invited.</p> <p>A =Maximum value of civil engineering works excluding the amount of bonus received and GST, if any, in respect of EPC Projects executed in any one year during the last five years (updated to the price level of the year indicated in table at Note-3 below) taking into account the completed as well as works in progress. The <b><u>EPC projects</u></b> include turnkey project/ Item rate contract/ Construction works.</p> <p>B =Value (updated to the price level of the year indicated in table at Note-3 below) of existing commitments, works for which the bidder has emerged as the winner of the bids or on-going works to be completed during the period of completion of the works for which BID is invited. For the sake of clarification, it</p>



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			not been issued as on the day before opening the financial bids shall also be considered while calculating value of B. C =The amount of bonus received, if any, in EPC Projects during the last 5 years (updated to the price level of the year indicated in table at Note-3 below).	is mentioned that works for which bidder has emerged as the winner of the bids but LOA has not been issued as on the day before opening the financial bids shall also be considered while calculating value of B
3	Volume-I ITB	2.2.2.2 Technical Capacity (i) Page No.21	(i) For demonstrating technical capacity and experience (the “ <b>Technical Capacity</b> ”), the Bidder shall, over the past [5 (five)] financial years preceding the Bid Due Date, have received payments for construction of Eligible Project(s), or has undertaken construction works by itself in a PPP project, such that the sum total thereof, as further adjusted in accordance with clause 2.2.2.5 (i) & (ii), is more than <b>INR. 608.00 Cr (INR Six Hundred Eight Crore)</b> (the “ <b>Threshold Technical Capacity</b> ”).	(i) For demonstrating technical capacity and experience (the “ <b>Technical Capacity</b> ”), the Bidder shall, over the past [10 (Ten)] financial years preceding the Bid Due Date, have received payments for construction of Eligible Project(s), or has undertaken construction works by itself in a PPP project, such that the sum total thereof, as further adjusted in accordance with clause 2.2.2.5 (i) & (ii), is more than <b>INR. 608.00 Cr (INR Six Hundred Eight Crore)</b> (the “ <b>Threshold Technical Capacity</b> ”).

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as																								
4	Volume-I ITB	2.2.2.2 Technical Capacity (ii) Page No.21 For normal Highway projects (including Major Bridges / ROB / Flyovers / Tunnels):	<p>Applicant should have completed one Creek bridge/ Perennial River bridge of minimum <b>3500 m length</b> having 4 lane/ 2 lane carriageway with Cable stayed Bridge span consisting of Minimum obligatory span of <b>120m</b> amounting not less than <b>Rs 650 Cr. (INR. Six hundred Fifty Crore)</b> in last 5 years updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below</p> <table><tr><th>Sr. No</th><th>No. of lanes for project for completed Bridge</th><th>Factor</th></tr><tr><td>1</td><td>Two lanes</td><td>1.00</td></tr><tr><td>2</td><td>Four lanes</td><td>2.00</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1.00	2	Four lanes	2.00	<p>Applicant should have completed one Creek/Sea/Perennial River bridge of minimum <b>3500 m length</b> having 4 lane/ 2 lane carriageway/Railway with Cable stayed Bridge span consisting of Minimum obligatory span of <b>120m</b> amounting not less than <b>Rs 650 Cr. (INR. Six hundred Fifty Crore)</b> in last 10 years updated to CSR.</p> <p>The length of bridge shall be calculated as per the factor given below</p> <table><tr><th>Sr. No</th><th>No. of lanes for project for completed Bridge</th><th>Factor</th></tr><tr><td>1</td><td>Two lanes</td><td>1.00</td></tr><tr><td>2</td><td>Four lanes</td><td>2.00</td></tr><tr><td>3</td><td>Single Tack Railway Bridge</td><td>1.00</td></tr><tr><td>4</td><td>Double Track Railway Bridge</td><td>1.50</td></tr></table>	Sr. No	No. of lanes for project for completed Bridge	Factor	1	Two lanes	1.00	2	Four lanes	2.00	3	Single Tack Railway Bridge	1.00	4	Double Track Railway Bridge	1.50
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5	Volume-I ITB	2.2.2.2 (iv) Technical Capacity Page No.20	<p>(iv) The updation factor to update the price of the eligible projects for the year indicated in table below:</p> <table><tr><th>Sr. No</th><th>Project Completion Year</th><th>Updation Factor</th></tr><tr><td>1</td><td>Year 1 (2022-23)</td><td>1.00</td></tr><tr><td>2</td><td>Year 2 (2021-22)</td><td>1.05</td></tr></table>	Sr. No	Project Completion Year	Updation Factor	1	Year 1 (2022-23)	1.00	2	Year 2 (2021-22)	1.05	<p>iv) The updation factor to update the price of the eligible projects for the year indicated in table below:</p> <table><tr><th>Sr. No</th><th>Project Completion Year</th><th>Updation Factor</th></tr><tr><td>1</td><td>Year 1 (2022-23)</td><td>1.00</td></tr><tr><td>2</td><td>Year 2 (2021-22)</td><td>1.10</td></tr></table>	Sr. No	Project Completion Year	Updation Factor	1	Year 1 (2022-23)	1.00	2	Year 2 (2021-22)	1.10						
Sr. No	Project Completion Year	Updation Factor																										
1	Year 1 (2022-23)	1.00																										
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Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be			To be read as		
			3	Year 3 (2020-21)	1.10	3	Year 3 (2020-21)	1.21
			4	Year 4 (2019-20)	1.15	4	Year 4 (2019-20)	1.33
			5	Year 5 (2018-19)	1.20	5	Year 5 (2018-19)	1.46
						6	Year 6 (2017-18)	1.61
						7	Year 7 (2016-17)	1.77
						8	Year 8 (2015-16)	1.95
						9	Year 9 (2014-15)	2.15
						10	Year 10 (2013-14)	2.37
6	Volume-I ITB	2.2.2.2 (v) Technical Capacity Page No.22	There should not be history of collapse due to failure of superstructure / substructure of any bridge / flyover / viaduct/metro line work during construction in last 5 years. Undertaking in this regard shall be submitted along with bid document.			There should not be history of collapse due to failure of superstructure / substructure of any bridge / flyover / viaduct/metro line work during construction in last 2 (two) years i.e. from 01.01.2022 to 31.12.2023. Undertaking in this regard shall be submitted along with bid document.		
7	Volume-I ITB	2.2.2.3 (ii) Financial Capacity	The Bidder shall have a minimum Average Annual Turnover (updated to the price level of the year based on factors indicated in table below) of INR. <b>405.00 Cr (INR. Four Hundred Five Crore)</b> for the last 5 (five) financial years.			The Bidder shall have a minimum Average Annual Turnover (updated to the price level of the year based on factors indicated in table below) of INR. <b>405.00 Cr (INR. Four Hundred Five Crore)</b> for the last 10 (ten) financial years.		
			Sr. No	Project Completion Year	Updation Factor	Sr. No	Project Completion Year	Updation Factor
			1	Year 1 (2022-23)	1.00	1	Year 1 (2022-23)	1.00



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be			To be read as		
			2	Year 2 (2021-22)	1.05	2	Year 2 (2021-22)	1.10
			3	Year 3 (2020-21)	1.10	3	Year 3 (2020-21)	1.21
			4	Year 4 (2019-20)	1.15	4	Year 4 (2019-20)	1.33
			5	Year 5 (2018-19)	1.20	5	Year 5 (2018-19)	1.46
			(i)			6	Year 6 (2017-18)	1.61
						7	Year 7 (2016-17)	1.77
						8	Year 8 (2015-16)	1.95
						9	Year 9 (2014-15)	2.15
						10	Year 10 (2013-14)	2.37
8	Volume-I ITB	Section 2 - cl. 2.2.2.6 page no 25 Eligible Experience on Eligible Projects in respect of each category	(ii)d) the entity claiming experience shall, during the last 5 (five) financial years preceding the Bid Due Date, have itself undertaken the construction of the project for an amount equal to at least one half of the Project Cost of eligible projects, excluding any part of the project for which any contractor, sub-contractor or other agent was appointed for the purposes of construction			(i) d) the entity claiming experience shall, during the last 10 (Ten) financial years preceding the Bid Due Date, have itself undertaken the construction of the project for an amount equal to at least one half of the Project Cost of eligible projects, excluding any part of the project for which any contractor, sub-contractor or other agent was appointed for the purposes of construction		



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
9	Volume-I ITB	Section 2 - Clause no. 2.2.2.7 (i) Page No. 26 Submission in support of Technical Capacity	Deleted	The bidder shall submit the details of (on-going and completed projects) Eligible Experience for the last 10 financial years, preceding the year in which the bid is submitted in the prescribed format.
10	Volume I - ITB	Appendix - II, Appendix - II, Page no 79-81, Bank Guarantee for bid security	16. Notwithstanding any contained herein;  (i) Our liability under this guarantee shall not exceed INR ..... (ii) This bank guarantee shall be valid upto ..... and en-cashable within further claim of 12 months i.e. .... (iii) We are liable to pay the guarantee amount or any part of this bank guarantee only & only if you serve upon us a written claim or demand only through email/fax/post.	16. Notwithstanding any contained herein;  (i) Our liability under this guarantee shall not exceed INR ..... (ii) This bank guarantee shall be 365 days form the bid due date i.e. valid upto ..... and en-cashable within further claim of 180 days i.e. .... (iii) We are liable to pay the guarantee amount or any part of this bank guarantee only & only if you serve upon us a written claim or demand only through email/fax/post.



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
11	Vol II EPC Agreement	Payment Article 3 Clause 3.1.9 Pa	<p>The contractor.....Completion Certificate.</p> <p>The Contractor shall obtain and <b>maintain a project related bank account operational at site where all transactions</b> related to the payment of work will be done. The Contractor shall <b>submit a monthly account statement and a detailed report on utilization of funds transferred</b> to this project related bank account to Authority's Engineer. Notwithstanding anything contrary to this agreement, the authority, in the interest and to ensure timely completion of the work, <b>reserves the right to audit such bank accounts</b> to ensure that there is no diversion of funds from this project specific account to any other project being implemented by the Contractor.</p>	<p>The contractor.....Completion Certificate.</p> <p><b><u>Deleted</u></b></p>
12	Volume II, EPC agreement	Clause 14.1.1	<p>14.1.1 The Contractor shall maintain the Project for a period of 10 (ten) years commencing from the date of the Provisional Certificate (the "Maintenance Period"). For the performance of its Maintenance obligations, the contractor shall be paid 0.25% of the Contract Price for the first year and 0.5%, 0.75% , 1% of the Contract Price for the second, third and fourth year respectively in case of road projects. But in case of stand alone Creek Bridge with cable stayed spans / structure work with approaches, the contractor shall be paid 0.125% of the Contract Price each for the first five years and 0.25% of the Contract Price</p>	<p>The Contractor shall maintain the Project for a period of 5 (Five) years commencing from the date of the Provisional Certificate (the "Maintenance Period"). For the performance of its Maintenance obligations, the contractor shall be paid 0.25% of the Contract Price for the first year and 0.5%, 0.75% , 1% of the Contract Price for the second, third and fourth year respectively in case of road projects. But in case of standalone Creek Bridge / structure work with approaches, VUP and at grade road, the contractor shall be paid 0. 375% of the Contract Price each for the first five years. Maintenance Cost shall be included in Contract Price. Amount shall be, inclusive of</p>



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			each year for the remaining period of five year respectively. Maintenance Cost shall be included in Contract Price. Amount shall be, inclusive of all taxes. The amount payable for maintenance shall be adjusted to reflect any increase or decrease arising out of variation in WPI to be determined in accordance with the provisions of Clause 19.12. For the avoidance of doubt, it is agreed that in the event no Provisional Certificate is issued, the Maintenance Period shall commence from the date of the Completion Certificate. It is further agreed that the Contract Price hereunder shall be reckoned with reference to the amount specified in Clause 19.1.1, which shall be adjusted to the extent of Change of Scope and the works withdrawn under the provisions of Clause 8.3.3, but shall not include any price adjustments in pursuance of Clause 19.10.	all taxes. The amount payable for maintenance shall be adjusted to reflect any increase or decrease arising out of variation in WPI to be determined in accordance with the provisions of Clause 19.12. For the avoidance of doubt, it is agreed that in the event no Provisional Certificate is issued, the Maintenance Period shall commence from the date of the Completion Certificate. It is further agreed that the Contract Price hereunder shall be reckoned with reference
13	Volume II, EPC agreement	Article 19 Page no. 83 clause 19.2.1	The Authority shall make an interest-bearing @ SBI MCLR + 3% annual compounding rate advance payment (the “ <b>Advance Payment</b> ”), equal in amount to 10 (ten) percent of the Contract Price, exclusive for mobilization expenses. The Advance Payment for mobilization expenses shall be made in two installments each equal to 5% (five percent) of the Contract Price. The second 5% (five percent) mobilization advance would be	The Authority shall make an interest @12% annual compounding advance payment (the “ <b>Advance Payment</b> ”), equal in amount to 10 (ten) percent of the Contract Price, exclusive for mobilization expenses. This Advance Payment for mobilization expenses shall be released on signing the agreement and submission of BG.



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			released after submission of utilization certificate by the Contractor for the first 5% advance already released earlier.	
14	Volume II, EPC agreement	Article 28 Definitions	“ <b>Appointed Date</b> ” means that date which is later of the date on which the Contractor has delivered the Performance Security in accordance with the provisions of Article 7 and the date on which the Authority has provided the working front not less than 80% (Ninety per cent) of the total length of Project.	“ <b>Appointed Date</b> ” means that date which is later of the date on which the Contractor has delivered the Performance Security in accordance with the provisions of Article 7 and the date on which the Authority has provided the working front not less than 90% (Ninety per cent) of the total length of Project.
15	Vol. III Technical Schedules	Environment Clearances Annex-IV, Schedule-A, Pg. no. 10	<p><b><u>Forest Clearance and Permission for Mangrove cutting:</u></b></p> <p>As on date, this Phase of Agardanada creek Bridge and approaches partially passes through Mangroves area. Considering existence of mangroves in the project area during implementation of the project, Contractor shall provide necessary support to obtain the clearnces and permission of High court, Mumbai to MSRDC.</p> <p><b>9.3.8.4</b></p>	<p>Forest Clearance and Permission for Mangrove cutting:</p> <p>As on date, this Phase of Agardanada creek Bridge and approaches may partially passes through Mangroves area during implementation of the project. MSRDC will obtain and provide the necessary forest clearances and permissions for mangrove cutting in the ROW of bridge project.</p> <p>Also, in any case Delay in providing the Forest Clearance and Permission for Mangrove cutting by MSRDC, the Contractor shall not be entitled for Damages in a sum</p>

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
				calculated in accordance with the provisions of Clause 8.3 of this Agreement however entitle for Time Extension in accordance with the provisions of Clause 10.5 of this Agreement.
16	Volume III, Technical schedule	Schedule C, page no. 56 clause 9.3.8.4	<p><b>9.3.8.5 Corrosion Inhibitor</b></p> <p>For all foundations, buried concrete and concrete in every part, bipolar, migrating, non-nitrite based concrete penetrating corrosion inhibiting admixture shall be added at a dose of 3 kgs per cum of concrete. The admixture should be accredited by Indian Roads Congress, enlisted in Engineers India Limited list of approved products and have a 4-year track record of supply and use in the Gulf Region or areas having similar corrosive environments. The admixture shall also have evaluated test reports demonstrating a corrosion rate of zero coulombs after 45 test cycles as per ASTM G-109-2005 when tested from any one of the internationally ranked among the following top 4 research institutions in the world in Annual Survey conducted by Georgia Institute of Technology on Ranking of Research Institutions:</p> <ol style="list-style-type: none"> <li>1. Massachusetts Institute of Technology (MIT), USA</li> <li>2. Delaware University, USA</li> <li>3. Georgia Institute of Technology, USA</li> </ol>	<p><b>9.3.8.4 Traversing Type Corrosion Inhibiting (TTCI) powder additive</b></p> <p>All grades of Concrete shall be added with Traversing Type Corrosion Inhibiting (TTCI) powder additive at the dosage of 0.5 kg per cubic meter of concrete. The (TTCI) additive shall be confirm to the following specifications:</p> <ol style="list-style-type: none"> <li>1. The TTCI shall be tested as per ASTM G 109 for at least 20 cycles with negligible charge passed.</li> <li>2. Corrosion reduction by Tafel polarization (ASTM G59): At least 85% inhibition efficiency.</li> <li>3. The inhibitor shall form corrosion inhibitive, molecular film in vapour phase.</li> <li>4. The typical minimum bond energy of this film (analyzed by X-ray Photoelectron Spectroscopy (XPS)) shall be as follows: <ol style="list-style-type: none"> <li>a. (Fe-N): &gt;350 eV</li> </ol> </li> </ol>



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			<p>4. Institute of Chemical Technology, India</p> <p>Further, admixture must indicate significant reduction in corrosion after accelerated corrosion test based on JIS Z 1535 and must have undergone long term performance tests as per ASTM G1 and ASTM G3, indicating negligible rebar weight loss of less than 5 mpy (mils per year) for both tests. pH of admixture should be alkaline in nature, specific gravity of 0.99 – 1.1. Admixture must not have any adverse effect on concrete compressive strength. The Contractor must intimate the Engineer in charge prior to addition in concrete for recording. If the admixture is put in the concrete mix at the batching plant, a written record of the amount of admixture used and the total mixing time shall be supplied to the Engineer. The Engineer must ensure the specified dosage of admixture added in concrete mix.</p>	<p>b. (Fe-Ca): &gt;320 eV c. (Fe-O): &gt;450 eV</p> <p>5. It shall be of bipolar corrosion inhibition type.</p> <p>6. Vapour Inhibiting Ability Test (NACE TMO 208) result shall be Grade 4 (excellent corrosion protection effect)</p> <p>The TTCI additive powder shall be test from Institute of Chemical Technology- Mumbai or IIT Bombay for all above parameters</p> <p>TTCI additive shall not affect any physical parameter of concrete, namely compressive strength, permeability and ISAT to ensure durability parameters of project specifications are adhered to. These tests, related to physical parameters of concrete shall be carried once at any approved NABL accredited lab during the course of project.</p> <p>The contractor shall ensure the specified dosage of additive added in the concrete mix by reconciling the E-way bills with the concrete quantity executed.</p>

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
17	Volume III, Technical schedule	Volume III, Schedule C, page no. 56 clause 9.3.8.5	<p><b>9.3.8.6 Reinforcement</b></p> <p>The bridge Approaches and bridge is located in marine environment and suitable protection needs to be provided to reinforcement to prevent corrosion. The anticorrosive treatment shall be epoxy coating (factory coated) shall be used as a minimum protection against corrosion with the specified cover for only foundation and piers shown on the above table irrespective of the grade of concrete and exposure condition. Reinforcement shall comply with the requirements as per clause 1009.3.1 &amp; 1009.3.2.1 of MORT&amp;H specification (Fifth Revision 2013). Original source of the supply of the coated bars shall not have any lead limitations</p>	<p><b>9.3.8.5 Reinforcement</b></p> <p>The bridge Approaches and bridge is located in marine environment and suitable protection needs to be provided to reinforcement to prevent corrosion in addition to adding of corrosion inhibitor as specified in Cl.9.3.8.4 with the specified cover for all structural concrete irrespective of the grade of concrete and exposure condition. All reinforcement shall be TMT 500 confirming to IS-1786 with Anticorrosive treatment of FBEC.</p>
18	Volume III, Technical schedule	Volume III, Schedule D, page no. 81 clause 23	<p><b>ANTICORROSIVE TREATMENT TO CONCRETE AND REINFORCEMENT:</b></p> <p>23.1 Entire structure shall be given anticorrosive protection, which shall be got tested from approved laboratory and shall be of approved quality, colour and shade.</p> <p>23.2 The protection shall consist of:</p> <p>23.2.1 Over mild steel liner to piles: One coat of Zinc-rich Epoxy primer and two coats of Coal Tar Epoxy. (Total dry film thickness <math>50 + 80 + 80 = 210</math> microns) to outside surface.</p>	<p><b>ANTICORROSIVE TREATMENT TO CONCRETE AND REINFORCEMENT:</b></p> <p>23.1 Entire structure shall be provided with anticorrosive protection, which shall be got tested from approved laboratory and shall be of approved quality, colour and shade.</p> <p>23.2 The protection shall consist of:</p> <p>23.2.1 Over mild steel liner to piles: One coat of Zinc-rich Epoxy primer and two coats of Coal Tar</p>

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			<p>Aluminum based paints shall be prohibited as they have deleterious influence on the concrete surface.</p> <p>23.2.2 Part of Substructure in contact with earth and up to (H.T.L.+0.9m) /H.F.L. (whichever is higher) - One coat of primer and two coats of Coal Tar Epoxy. Part of Substructure exposed to atmosphere - water proof cement paint.</p> <p><b>Suggested Anti-corrosion treatment for Concrete &amp; Steel:</b></p> <p>For TMT bar – Provide bipolar concrete penetrating corrosion inhibiting admixture Polyalk CP 293 at dose of 3 kg per cum of concrete Inhibitor should have the ability to provide corrosion protection to both anodic &amp; cathodic sites on steel surfaces. It should protect from corrosion induced by Chloride ions &amp; Carbonation of concrete. It should form a unimolecular protective layer on the surface of steel there by inhibiting corrosion. Inhibitor test reports from accredited laboratory indicating significant reduction in corrosion after accelerated corrosion test based on JIS Z 1535, from manufacture shall be obtained.</p> <p>For Concrete – Provide high performance anti-carbonation protective coating for new surfaces of</p>	<p>Epoxy. (Total dry film thickness 50 + 80 + 80 = 210 microns) to outside surface. Aluminium based paints shall be prohibited as they have deleterious influence on the concrete surface.</p> <p>23.2.2 Part of Substructure in contact with earth and Main water up to (H.T.L.+0.9m) /H.F.L. (whichever is higher) - One coat of Zinc-rich Epoxy primer and two coats of Coal Tar Epoxy.</p> <p>23.2.3 Anti-corrosion treatment for Concrete &amp; reinforcement: Concrete Mix; - Provide traversing type corrosion Inhibiting (TTCI) powder additive as specified in clause 9.3.8.4 in all grade of concrete irrespective of exposure condition</p> <p>Reinforcement; - Anti corrosive treatment to reinforcement shall be as specified in clause</p> <p>23.2.4 For Exposed Concrete surface – Provide high performance anti-carbonation protective coating for new surfaces of concrete by cleaning the surface to remove dirt, loose particles etc. by wire</p>

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			<p>concrete by cleaning the surface to remove dirt, loose particles etc. by wire brush and applying a primer coat of SUNEXT 8 by mixing it with 500 ml of potable water. Apply by brush/roller/spray. After 24 hrs, apply two more coats of SUNEXT 8 at an interval of 24 hrs between each coat. It should form 100% acrylic, waterproof &amp; heat insulating layer on the surface of concrete. It should protect concrete surface against carbonation.</p> <p>23.2.3 All other parts of Substructure and superstructure exposed to atmosphere –Anti-carbonation paint. (Primer coat &amp; two coats of SUNEXT 8 or equivalent like RYSO/CIKA etc.).</p>	<p>brush with following anti-Carbonation protective coating meeting following specifications.</p> <p>23.2.5 Anti-Carbonation Protective coating of Engineered Aliphatic Acrylate type paint/coating Specifications:</p> <p>All exposed concrete surfaces above ground shall be coated with elastomeric anti-carbonation coating of Engineered Aliphatic Acrylate type. The coating shall be applied in 3 coats (Primer + Two coats).</p> <p>The Engineered Aliphatic Acrylate type coating shall conform to the following specifications:</p> <ol style="list-style-type: none"> <li>1. UV resistance (ASTM G 154): No Change in colour</li> <li>2. IR Spectrum (IR Spectrometer standards): Acrylic polymer with end OH groups shall be present.</li> <li>3. Adhesion (ASTM D 4541): &gt;3.25MPa</li> <li>4. Dry Film Thickness, (Primer + two coats) at a coverage of 6 sqm/ ltr (for Primer) and 5 sqm/ltr (for each of the two coats): ≥225 Microns</li> <li>5. Solid Content (By mass) as per IRC SP80 (IS-354): &gt;67%</li> <li>6. Water vapour permeability (ASTM D 1653): &lt;2.20</li> </ol>



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
				gm/sqm/day at 75% RH at 25°C 7. Flexibility (Standard Bend test) ¼ Inch Mandrel (ASTM D 522): No cracks shall develop. 8. Water Penetration test (DIN-1048): Shall pass. 9. AC Impedance test in 3% NaCl (ASTM G 106): Initial: >9.0x10 <sup>9</sup> ; After 30 days: >1.5x10 <sup>7</sup> 10. Diffusion Resistance against CO <sub>2</sub> (DIN 53122 Part 1): 2.28 g/m <sup>2</sup> xd (typical) 11. Diffusion equivalent air layer thickness (SD) (DIN 53122 Part 1): >100m 12. Diffusion resistance number (DIN 53122 Part 1): 43μ (typical) 13. Water proofing characteristics: >50 % reduction in flux 14. Electrochemical Polarization test (Accelerated corrosion test) a. Rebar weight loss method: Efficiency Factor – 20 (typical) b. Chloride penetration: Efficiency Factor – 14 (typical) 15. Resistance to alkali (IS 5411): Should have No blistering, No popping, No change in colour.



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
				16. Fungal Resistance (IS 5411): Should have No fungal growth, No blistering, No popping, No change in colour. 17. Elongation (ASTM D 2370): >100%.
19	Volume III- Technical Schedules	Schedule-D Clause 9.3.8.7-page no. 57 Proof consultant & Authority Engineer sequence of approval	The sequence of Approval of drawing for bridge shall be as follows: i) The Contractor shall submit detailed design through Proof and safety consultant to Authority Engineer for approval. ii) Approved design from Authority Engineer shall be submitted to IIT for Approval and then Authority Engineer will finally issue the GFC drawing.	The sequence of Approval of drawing for bridge shall be as follows: i) The Contractor shall submit detailed design through Proof and safety consultant to Authority Engineer for approval. ii) Approved design from Authority Engineer shall be submitted to IIT for Approval and on approval from IIT, Authority Engineer will finally issue the GFC drawing.

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as												
20	Volume III- Technical Schedules	Schedule-D Clause 16.13, 16.14 page no 76 to 78, Substructure	<div>16.13 Appropriate number of Dowel bars of minimum 25mm dia. Shall be provided in foundation of pier &amp; abutment.</div> <div>16.14 In case of flyover, for the piers, Protective Island of a minimum height of 1.5 m. and having a clear distance of 750 mm from the face of pier shall be provided. The gap between pier and the island wall shall be filled with sand. Suitably designed fencing made out of steel members and painted with protective paint shall be fitted on top of the wall of the island. The island wall shall be in M-20 R.C.C. with a thickness of 250 mm and buried below adjacent ground level by 750 mm.</div>	<div>16.13 deleted</div> <div>16.14 deleted</div>												
21	Volume III Schedule	Schedule H - Contract price weightages 1.3.2 page no 125 Payment procedure - Major	<div>Bridge works Procedure for estimating the value of Major Bridge works shall be as stated in table 1.3.2:</div> <div>Table 1.3.2</div> <table><tr><th>Stage of Payment</th><th>Percentage - weightage</th><th>Payment Procedure</th></tr><tr><td></td><td></td><td></td></tr></table>	Stage of Payment	Percentage - weightage	Payment Procedure				<div>Bridge works Procedure for estimating the value of Major Bridge works shall be as stated in table 1.3.2:</div> <div>Table 1.3.2</div> <table><tr><th>Stage of Payment</th><th>Percentage - weightage</th><th>Payment Procedure</th></tr><tr><td></td><td></td><td></td></tr></table>	Stage of Payment	Percentage - weightage	Payment Procedure			
Stage of Payment	Percentage - weightage	Payment Procedure														
Stage of Payment	Percentage - weightage	Payment Procedure														



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be			To be read as		
		Bridge works	<b>B-New Major Creek Bridge</b>			<b>B-New Major Creek Bridge</b>		
			(1) Foundation	31.57%	(i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridge. Payment against foundation shall be made on pro-rata basis on completion of per foundation.  In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.	(1) Foundation	31.57%	(i) Foundation: Cost of each Major Bridge shall be determined on pro rata basis with respect to the total linear length (m) of the Major Bridge. Payment against foundation shall be made on pro-rata basis on completion of per foundation.  In case where load testing is required for foundation, the trigger of first payment shall include load testing also where specified.
			(2) Sub-structure	3.96%	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of per sub-structure upto abutment/pier cap level of	(2) Sub-structure	3.96%	(ii) Sub-Structure: Payment against Sub-structure shall be made on pro-rata basis on completion of per sub-



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be			To be read as		
					the major bridge.			structure upto abutment/pier cap level of the major bridge.
			(3) Super-structure (including bearings)	61.24%	(iii) Super-structure: Payment shall be made as below:  30% on Procurement of structural steel on Pro-rata basis 20% on Fabrication of structural steel on Pro-rata basis 35% on erection/ Launching of structure on Pro-rata basis 10% after final coat of paint on structural steel members on Pro-rata basis 5% on completion of Deck Slab including all required test	(3) Super-structure (including bearings)	61.24%	(iii) Super-structure: Payment shall be made as below: i) 60 % on launching of girder on prorata basis ii) 20% on casting of deck slab on Pro-rata basis iii) 10% on completion of all component of superstore with final coat of paint on super structure on Pro-rata basis
			(4) Wearing Coat including expansion joints	1.61%	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.			iv) 10% on completion of testing of bridge and fixing of instrumentation



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be			To be read as		
			(5) Miscellaneous Items (like crash barrier, Road marking, Decorative Street Lighting and High Mast, cast-in-situ brackets/ steel brackets on either side of the structures to carry the utility services as per detail design, Road Signages, Compensatory Afforestation, Bridge Lighting, Maintenance and Inspection	1.09%	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respects as specified.			equipment for monitoring of bridge structure.
						(4) Wearing Coat including expansion joints	1.61%	(iv) Wearing Coat: Payment shall be made on completion of wearing coat including expansion joints complete in all respects as specified.
						(5) Miscellaneous Items (like crash barrier, Road marking, Decorative Street Lighting and High Mast, cast-in-situ brackets/ steel brackets on	1.10%	(v) Miscellaneous: Payments shall be made on completion of all miscellaneous works like hand rails, crash barriers, road markings etc. complete in all respects as specified.



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be			To be read as		
			Gallery, Plantation, Gantry, Painting of structure			either side of the structures to carry the utility services as per detail design, Road Signages, Compensatory Afforestation, Bridge Lighting, Maintenance and Inspection Gallery, Plantation, Gantry, Painting of structure		
			(6) Approaches	0.52%	vi) Approaches: Payment shall be made on completion of approaches in all respects as specified.			
						(6) Approaches	0.52%	vi) Approaches: Payment shall be made on completion of approaches in all respects as specified.



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as		
				Total	100	
22	Volume-III Technical Schedule	Schedule J Page No. 131	<p align="center"><b>SCHEDULE - J</b> (See Clause 10.3.2) <b>PROJECT COMPLETION SCHEDULE</b></p> <p><b>1. Project Completion Schedule</b></p> <p>During Construction period, the Contractor shall comply with the requirements set forth in this Schedule-J for each of the Project Milestones and the <b>Scheduled Completion Date</b>. Within 15 (fifteen) days of the date of each Project Milestone, the Contractor shall notify the Authority of such compliance along with necessary particulars thereof.</p> <p><b>2. Project Milestone-I</b></p> <p>Project Milestone-I shall occur on the date falling on the <b>380<sup>th</sup> (Three hundred and Eighty)</b> day from the Appointed Date (the “<b>Project Milestone-I</b>”).</p>	<p align="center"><b>SCHEDULE - J</b> (See Clause 10.3.2) <b>PROJECT COMPLETION SCHEDULE</b></p> <p><b>1. Project Completion Schedule</b></p> <p>During Construction period, the Contractor shall comply with the requirements set forth in this Schedule-J for each of the Project Milestones and the <b>Scheduled Completion Date</b>. Within 15 (fifteen) days of the date of each Project Milestone, the Contractor shall notify the Authority of such compliance along with necessary particulars thereof.</p> <p><b>2. Project Milestone-I</b></p> <p>Project Milestone-I shall occur on the date falling on the <b>228<sup>th</sup> (two hundred and Twenty Eigjt)</b></p>		



Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			<p>Prior to the occurrence of Project Milestone-I, the Contractor shall have commenced construction of the Project Road and submitted to the Authority duly and validly prepared Stage Payment Statements for an amount not less than 10% (ten per cent) of the Contract Price.</p> <p><b>3. Project Milestone-II</b></p> <p>Project Milestone-II shall occur on the date falling on the <b>660<sup>th</sup> (Six hundred and Sixty)</b> day from the Appointed Date (the “<b>Project Milestone-II</b>”).</p> <p>Prior to the occurrence of Project Milestone-II, the Contractor shall have continued with construction of the Project Bridge and Approaches and Project Road and submitted to the Authority duly and validly prepared Stage Payment Statements for an amount not less than 30% (thirty per cent) of the Contract Price.</p> <p><b>4. Project Milestone-III</b></p>	<p>day from the Appointed Date (the “<b>Project Milestone-I</b>”).</p> <p>Prior to the occurrence of Project Milestone-I, the Contractor shall have commenced construction of the Project Road and submitted to the Authority duly and validly prepared Stage Payment Statements for an amount not less than 10% (ten per cent) of the Contract Price.</p> <p><b>3. Project Milestone-II</b></p> <p>Project Milestone-II shall occur on the date falling on the <b>456<sup>h</sup> (Four hundred and Fifty Six)</b> day from the Appointed Date (the “<b>Project Milestone-II</b>”).</p> <p>Prior to the occurrence of Project Milestone-II, the Contractor shall have continued with construction of the Project Bridge and Approaches and Project Road and submitted to the Authority duly and validly prepared Stage</p>




Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			<p>Project Milestone-III shall occur on the date falling on the <b>880<sup>th</sup> (Eight hundred and Eighty)</b> day from the Appointed Date (the “<b>Project Milestone- III</b>”).</p> <p>Prior to the occurrence of Project Milestone-III, the Contractor shall have continued with construction of the Project Bridge and Approaches and Project Road and submitted to the Authority duly and validly prepared Stage Payment Statements for an amount not less than 60% (sixty per cent) of the Contract Price.</p> <p><b>5. Scheduled Completion Date</b></p> <p><b>5.1</b> The Scheduled Completion Date shall occur on the <b>1095<sup>th</sup> (One thousand Ninety Five)</b> day from the Appointed Date.</p> <p><b>5.2</b> On or before the Scheduled Completion Date, the Contractor shall have completed construction in</p>	<p>Payment Statements for an amount not less than 30% (thirty per cent) of the Contract Price.</p> <p><b>4. Project Milestone-III</b></p> <p>Project Milestone-III shall occur on the date falling on the <b>684<sup>h</sup> (Six hundred and Eighty Four)</b> day from the Appointed Date (the “<b>Project Milestone- III</b>”).</p> <p>Prior to the occurrence of Project Milestone-III, the Contractor shall have continued with construction of the Project Bridge and Approaches and Project Road and submitted to the Authority duly and validly prepared Stage Payment Statements for an amount not less than 60% (sixty per cent) of the Contract Price.</p> <p><b>5. Scheduled Completion Date</b></p>





Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
			<p>accordance with this Agreement.</p> <p><b>6. Extension of time</b></p> <p>Upon extension of any or all of the aforesaid Project Milestones or the Scheduled Completion Date, as the case may be, under and in accordance with the provisions of this Agreement, the Project Completion Schedule shall be deemed to have been amended accordingly.</p>	<p><b>5.3</b> The Scheduled Completion Date shall occur on the <b>913<sup>th</sup> (Nine Hundred Thirteen)</b> day from the Appointed Date.</p> <p><b>5.4</b> On or before the Scheduled Completion Date, the Contractor shall have completed construction in accordance with this Agreement.</p> <p><b>6. Extension of time</b></p> <p>Upon extension of any or all of the aforesaid Project Milestones or the Scheduled Completion Date, as the case may be, under and in accordance with the provisions of this Agreement, the Project Completion Schedule shall be deemed to have been amended accordingly.</p>

Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
23			<p>TCS</p> 	TCS R1 is enclosed with CSD.
24	Volume III, Technical Schedule	Scheduled D, Page no. 75 clause no. 15.1.3	For bidding and for the purpose of tender drawing, general foundation levels proposed for the pylons/piers & abutments, shall not be higher than those proposed in the GAD.	Revised GAD showing founding levels for each pylon is enclosed with CSD.
25	Volume III, Technical Schedule	Schedule D, Page no. 59, Clause 9.5	Movement joint - For better riding quality, spacing of movement joints shall not be less than 200m for straight spans in main bridge.	Movement joint - For better riding quality, spacing of movement joints shall not be less than 150m for straight spans in main bridge.
26			<p>CRZ Clearance from MCZMA – Minutes of the 168<sup>th</sup> meeting – 1. MSRDC to ensure that construction is not proposed in Turtle breeding sites</p> <p>2. Noise barrier will be placed between construction area and turtle nesting sites.</p>	<p>CRZ Clearance from MCZMA – Minutes of the 168<sup>th</sup> meeting –</p> <p>1. MSRDC to ensure that construction is not proposed in Turtle breeding sites</p> <p>2. Noise barrier shall be placed between construction area and turtle nesting sites.</p>

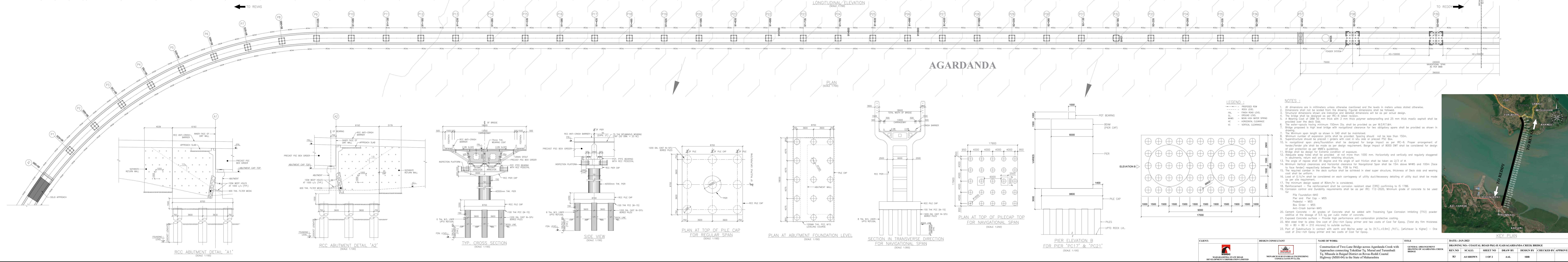
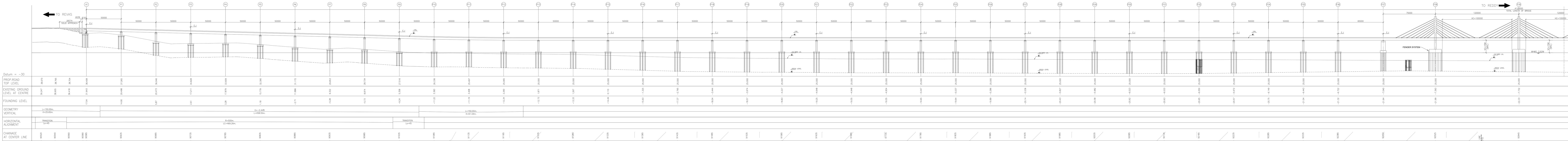


Sr. No.	Document/ Volume Name	Section/ Article	Existing Para/Clause Written as to be	To be read as
				3. Noise barrier shall be provided on both sides in km 93+825 to km 91+300 and 93+500 to 94+850.
27	Volume III, Technical Schedule	Volume - III, Schedule D, Page no. 41, Clause 4.15	Crushed sand shall not be used, The natural river sand shall be used for construction of this cable stayed bridge.	Crushed sand may be used, The natural river sand shall be used for construction of this cable stayed bridge.
28	Volume I, ITB	2.2.2.3 (iii) Financial Capacity	An Applicant shall, in the last three financial years i.e., 2020-2021, 2021-22 and 2022-2023 have neither been a loss-making company nor been in the list of Corporate Debt Restructuring (CDR) and / or Strategic Debt Restructuring (SDR) and / or having been declared Insolvent.	An Applicant shall, in the last three financial years i.e., 2020-2021, 2021-22 and 2022-2023 have not been in the list of Corporate Debt Restructuring (CDR) and / or Strategic Debt Restructuring (SDR) and / or having been declared Insolvent
29	Volume III Technical Schedules	Schedule D Cl. 22 Page no 81	<b>WEARING COAT:</b> A wearing coat of uniform thickness shall be provided for riding surface. It shall consist of 75 mm thick M-50 grade Cement Concrete covered by 6 mm thick Asphaltic Concrete /Mastic Asphalt as specified in Annexure-1.	<b>WEARING COAT:</b> A Wearing Coat of DBM 50 mm thick with 3 mm thick polymer waterproofing and 25 mm thick mastic asphalt shall be provided over the deck Slab.

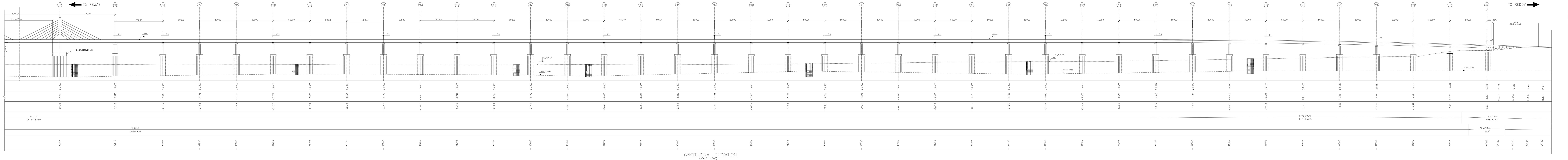
Documents Enclosed

- i) KMZ file
- ii) CAD copy of GAD of Bridge
- iii) Revised TCS R1





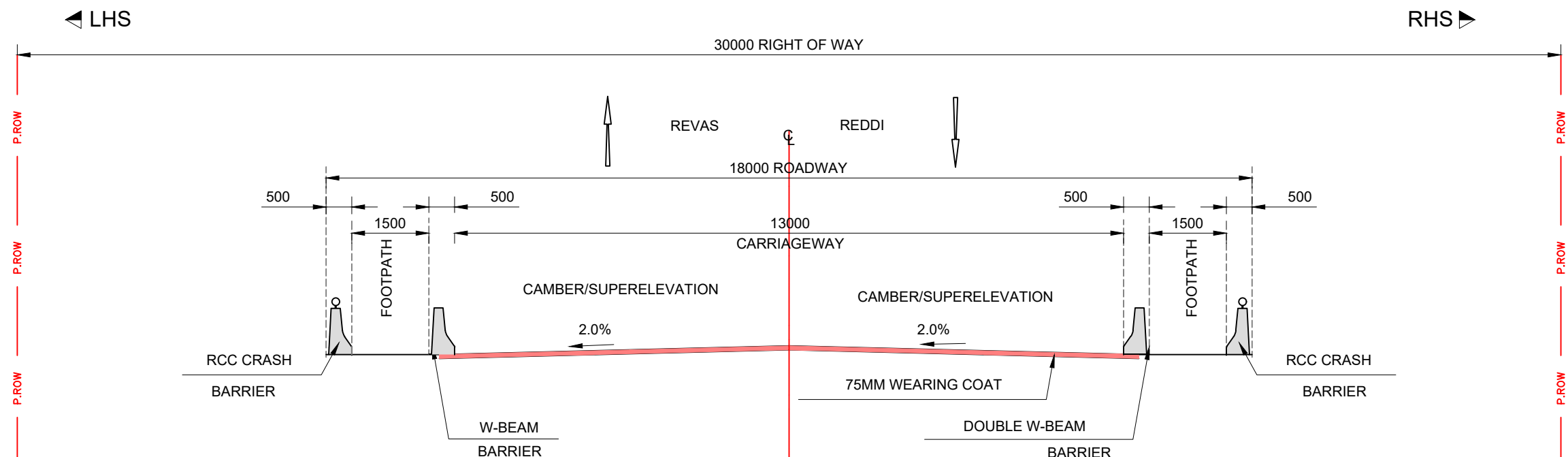




CLIENT:		DESIGN CONSULTANT:		NAME OF WORK:		TITLE:		DATE: JAN-2023	
				Construction of Two-Lane Bridge across Agardanda Creek with Approaches connecting Tokeshkar Tq. Murad and Turambadi Tq. Mhasala in Raigad District on Revas-Reddi Coastal Highway (MSH-04) in the State of Maharashtra		GENERAL ARRANGEMENT DRAWING OF AGARDANDA CREEK BRIDGE		REV-NO	
AS SHOWN		2 OF 2		AAL		SBB		APPROVED BY	



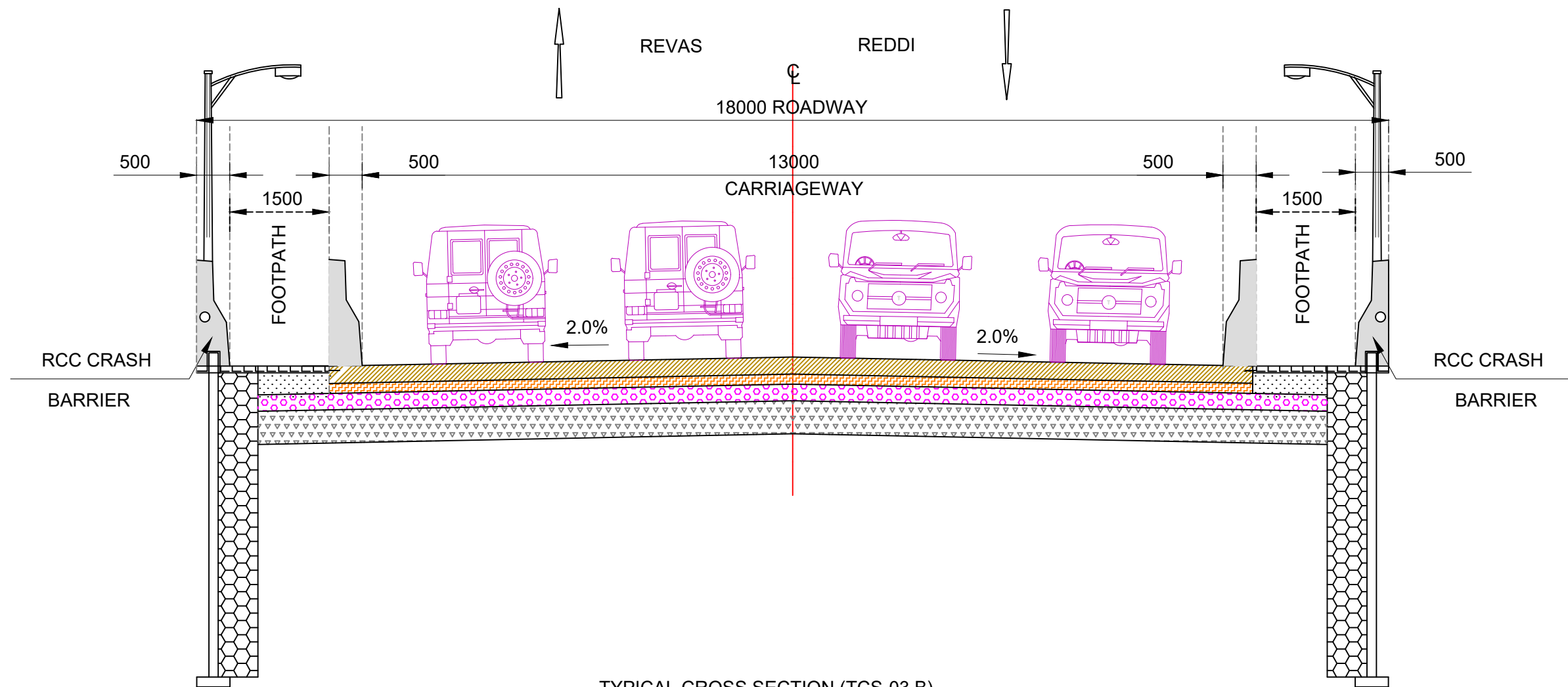






TYPICAL CROSS SECTION (TCS-03 A)  
(OPEN COUNTRY SECTION PLAIN/ROLLING TERRAIN)  
TWO LANE WITH PAVED SHOULDER FOR BRIDGE AT DECK LEVEL-WITH FOOTPATH  
(AS PER FIG 7.6 OF IRC:SP:73-2018)

						CLIENT:		 Maharashtra State Road Development Corporation Ltd (Government of Maharashtra Undertaking) Mumbai		DPR Consultant :		 SURVEYORS AND ENGINEERING CONSULTANTS Pvt. Ltd. 67, PANMALA, FLAT NO. 3, RUJETA APARTMENT NEAR SAHAWAS HALL, SINHGAD ROAD PUNE - 411 030 Ph:020/23330432,Fax:23330236, e-mail:monarchsurveyors@gmail.com		PROJECT:		Construction of Two-Lane Bridge across Agardanda Creek with Approaches connecting Tokekhar Tq. Murud and Turumbadi Tq. Mhasala in Raigad District on Revas-Redi Coastal Highway (MSH-04) in the State of Maharashtra on EPC Mode.		TITLE:		TCS - 03 A		DRG. NO.2	
																		DATE : JAN 2024		SHEET: SHEET PAPER: A2 REV: R0			
R1 MARCH-2023 FOR DETAILED PROJECT REPORT						SBJ		YNJ		SK				DETAIL:		DRAWN (A)		DESIGNED (B)		CHECKED (C)		APPROVED (D)	
NO. DATE REVISION						DRAWN		CHECKED		APPROVED		SCALE: NTS				DRAWN		DESIGN		CHECKED		APPROVED	





TYPICAL CROSS SECTION (TCS-03 B)  
(OPEN COUNTRY SECTION PLAIN/ROLLING TERRAIN)  
TWO LANE SECTION FOR BRIDGE AT APPROACH -WITH FOOTPATH  
(AS PER FIG 7.6 OF IRC:SP:73-2018) (MODIFIED)

							<div>CLIENT:</div> <div></div> <div>Maharashtra State Road Development Corporation Ltd (Government of Maharashtra Undertaking) Mumbai</div>	<div>DPR Consultant :</div> <div></div> <div>SURVEYORS AND ENGINEERING CONSULTANTS Pvt. Ltd. 67, PANMALA FLAT NO. 3, RUJETA APARTMENT NEAR SAHAWAS HALL, SINHGAD ROAD PUNE - 411 003 Ph:020/23330432, Fax:23330236, e-mail:monarchsurveyors@gmail.com</div>	<div>PROJECT:</div> <div>Construction of Two-Lane Bridge across Agardanda Creek with Approaches connecting Tokehar Tq. Murud and Turumbadi Tq. Mhasala in Raigad District on Revas-Redi Coastal Highway (MSH-04) in the State of Maharashtra on EPC Mode.</div>	<div>TITLE:</div> <div>TCS - 03 B</div>		<div>DRG. NO.3</div>							
										<div>DATE : JAN 2024</div>		<div>SHEET: SHEET</div>		<div>PAPER: A2   REV: R0</div>					
										<div>DETAIL:</div>		<div>DRAWN (A)</div>		<div>DESIGNED (B)</div>		<div>CHECKED (C)</div>		<div>APPROVED (D)</div>	
												<div>DRAWN</div>		<div>DESIGN</div>		<div>CHECKED</div>		<div>APPROVED</div>	