



**Package Title: Construction of Tunnelling Works including Testing and Commissioning for Double Line High Speed Railway using Tunnel Boring Machine (TBM) and New Austrian Tunnelling Method (NATM) between Mumbai Underground Station at Bandra-Kurla Complex (MAHSR Km. 0.773) and Shilphata (MAHSR Km. 21.150) in the State of Maharashtra for the Project for Construction of Mumbai-Ahmedabad High Speed Rail.**

**Package No: MAHSR-C-2**

Date: 29 - July - 2019

**Response to Bid Queries - 1**

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
1.	Part 1 Section IV, Bidding Forms Bill of Quantities Part 2 Section VI-3	Bill No. 4: TBM Tunnel Item No. 404 (ix) Pages 64 & 65 of 159 & Drawings 2. TBM Drawings TD-JIC-IC1-TDC-B01-UST-NTU-10770000 Page 82 of 182	Construction of tunnel in docking zone Dwg 10770000	It is stipulated that "Construction of tunnel in docking zone Item No. 404 (ix) Cast-in-situ RCC of grade M-35 in tunnel lining including formwork, concreting and curing excluding cost of reinforcement steel in accordance with the Specification and the Drawing." "Dwg 10770000 General Drawing Underground Docking between TBMS" We could not find reinforcement details for tunnel lining in docking zone in Tender drawings. Please provide. We believe that such design information will be issued as Addendum of the Bidding Documents soon.	Refer Addendum No. 2 Item No. 1
2.	Part 1 Section IV Bidding Forms Bill of Quantities & Part 2 Section VI-3	Bill No. 3.1.2 Permanent Reinstatement and Associated Works (Shaft No. 2) Item Nos. 310-312 Pages 39-40 of 159 Drawings 2. TBM Drawings TD-JIC-IC1-TDC-B01-UST-NTU-15520000 Shaft 2 Permanent Reinstatement and Associated Works Page 144 of 182	Shaft No. 2 Item No. 310 (c) Cable Duct (3500mm x 3500mm) Item No. 311 Retaining Wall Item No. 312 (a) Boundary Wall Dwg 15520000	It is stipulated that " <b>Shaft No. 2 Item No. 310 (c) Cable Duct (3500mm x 3500mm)</b> Supplying & laying RCC of grade M-35 in cable duct of size 3500mm x 3500mm (inner dimension) including form work, concreting, compacting, curing and all temporary works required to construct the same excluding cost of reinforcement steel in accordance with the Specification and the Drawings." " <b>Item No. 311 Retaining Wall</b> Construction of retaining wall with reinforced cement concrete of grade M-35 including excavation, muck disposal, form work, supplying, transporting, placing, compacting & curing excluding cost of reinforcement steel in accordance with the Specification and the Drawings." " <b>Item No. 312 (a) Boundary Wall</b> Construction of boundary wall over retaining wall with precast concrete panels & columns, concertina wire/coil fencing on top with support/fixing arrangements including excavation, muck disposal, backfilling, form work, concreting, compacting, curing, plastering, priming, painting of structural steel & finishing excluding cost of reinforcement steel in accordance with the Specification and the Drawings." " <b>Dwg 15520000</b> Shaft 2 Permanent Reinstatement and Associated Works" For Shaft No. 2, we could not find reinforcement details in Tender drawings for : (1) Cable Duct (3500mm x 3500mm) (2) Retaining Wall (3) Boundary Wall Please provide reinforcement details for (1), (2) and (3) above.	Refer Addendum No. 2 Item No. 1



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				We believe that such design information will be issued as Addendum of the Bidding Documents soon.	
3.	Part 1 Section IV Bidding Forms Bill of Quantities  & Part 2 Section VI-3	Bill No. 3.2.2 Permanent Reinstatement and Associated Works (Shaft No. 3) Item Nos. 327-329, Pages 54-56 of 159  Drawings 2. TBM Drawings TD-JIC-IC1-TDC-B01-UST-NTU-17380000 Shaft 3 Permanent Reinstatement and Associated Works Page 182 of 182	Shaft No. 3  Item No. 327 (c) Cable Duct (3500mm x 3500mm) Item No. 328 Retaining Wall Item No. 329 (a) Boundary Wall Dwg 17380000	It is stipulated that “ <b>Shaft No. 3 Item No. 327 (c) Cable Duct (3500mm x 3500mm)</b> Supplying & laying RCC of grade M-35 in cable duct of size 3500mm x 3500mm (inner dimension) including form work, concreting, compacting, curing and all temporary works required to construct the same excluding cost of reinforcement steel in accordance with the Specification and the Drawings.” “ <b>Item No. 328 Retaining Wall</b> Construction of retaining wall with reinforced cement concrete of grade M-35 including excavation, muck disposal, form work, supplying, transporting, placing, compacting & curing excluding cost of reinforcement steel in accordance with the Specification and the Drawings.” “ <b>Item No. 329 (a) Boundary Wall</b> Construction of boundary wall over retaining wall with precast concrete panels & columns, concertina wire/coil fencing on top with support/fixing arrangements including excavation, muck disposal, backfilling, form work, concreting, compacting, curing, plastering, priming, painting of structural steel & finishing excluding cost of reinforcement steel in accordance with the Specification and the Drawings.” “ <b>Dwg 17380000</b> Shaft 3 Permanent Reinstatement and Associated Works” For Shaft No. 3, we could not find reinforcement details in Tender drawings for : (1) Cable Duct (3500mm x 3500mm) (2) Retaining Wall (3) Boundary Wall Please provide reinforcement details for (1), (2) and (3) above. We believe that such design information will be issued as Addendum of the Bidding Documents soon.	Refer Addendum No. 2 Item No. 1

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4.	Part 1 Section IV Bidding Forms Bill of Quantities & Part 2 Section VI-3	Bill No. 2.1, Item No. 203 Bill No. 2.2, Item No. 211 Bill No. 3.1.2, Item No. 309 Bill No. 3.2.2, Item No. 326 Pages 20, 24, 38 and 53 of 159 Drawings Miscellaneous Drawings TD-JIC-IC1-TDC-B01-UST-NTU- at 2. TBM - 15520000 & 17380000 at pages 144 and 182 of 182 NATM for Main Tunnel – 20500000 at page 52 of 52 NATM for Adit Tunnel – 23370000 at page 39 of 39	Bill No. 2.1: At Main Tunnel Portal Bill No. 2.2: At Adit Portal Bill No. 3.1.2 : Permanent Reinstatement and Associated Works for Shaft 2 Bill No. 3.2.2 : Permanent Reinstatement and Associated Works for Shaft 3	<p>It is stipulated in Item Nos. 203, 211, 309 and 326 that “Construction of rectangular shaped precast or cast in-situ RCC drain of any size of concrete grade M-35 with precast concrete perforated covers &amp; construction of RCC catch pits including excavation, muck disposal, backfilling, form work, concreting, compacting, curing and all temporary works required to construct the same excluding cost of reinforcement steel in accordance with the Specification and the Drawings.” However, we note that there is no reference line shown in the drawing to estimate the excavation depth.</p> <p>Please provide detail and sufficient information for the cost estimate of above said works. Otherwise, please confirm that bidder can estimate for his costing based on below sketch for excavation and any difference in the excavation depth is to be adjusted later.</p>	Refer Addendum No. 2 Item No. 1
5.	Part 2 Section VI-1 General Specifications Division 04000 Works Administration  Part 2 Section VI-1 General Specifications Division 04000 Works Administration	CL.6, Page 64 of 100 Page 95 of 100	04080 Monthly Progress Report Requirements CL.6. Contractor’s Personnel, Contractor’s Equipment and Employer’s Equipment  Appendix 04000-1 Schedule of Interface, Coordination and Cooperation with Other Parties Chapter 3 Interface Table for Design, Supply and Installation Items Table 4, Item No. 3	<p>It is stipulated that “A detailed description and record of Contractor’s Personnel, Contractor’s Equipment, and any equipment provided by the Contractor to the Employer and Engineer (for example, vehicles)” However, we note that GS "Sub-Division 04060 Facilities for Employer's/Engineer's Personnel" does not provide any vehicles for the Employer/Engineer.</p> <p>Please clarify and amend the GS "Sub-Division 04080 CL. 6" accordingly in "... (for example, vehicles)."</p>	Refer Addendum No. 3 Item No. 19
6.	Part 2 Section VI-1 General Specifications Division 04000 Works Administration	Page 95 of 100	Appendix 04000-1 Schedule of Interface, Coordination and Cooperation with Other Parties Chapter 3 Interface Table for Design, Supply and Installation Items Table 4, Item No. 3	It is stipulated that “Table 4: Interface Table between C-2 and C-3 and P-1(A)	Necessary correction will be issued in subsequent Addendum.

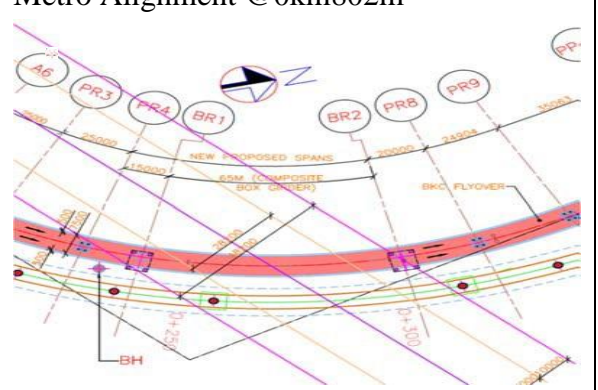


No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply					
				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; padding: 2px;">Handing over of part working area between 3 km21 m150 and NH-4 to C-3 and P- 1(A) for construction of foundation and substructure of viaduct</td> <td style="width: 33%; padding: 2px;">C-3, P- 1(A)</td> <td style="width: 33%; padding: 2px;">C-2</td> <td style="width: 33%; padding: 2px;">C-3, P- 1(A)</td> <td style="width: 33%; padding: 2px;">C-2 shall hand over part areas to C-3, P- 1(A) as agreed between them for construction of foundation and substructure of viaduct before item No.1.</td> </tr> </table> <p>”Please provide the area requirement and location of foundation. We believe that such design information will be issued as Addendum of the Bidding Documents soon.</p>	Handing over of part working area between 3 km21 m150 and NH-4 to C-3 and P- 1(A) for construction of foundation and substructure of viaduct	C-3, P- 1(A)	C-2	C-3, P- 1(A)	C-2 shall hand over part areas to C-3, P- 1(A) as agreed between them for construction of foundation and substructure of viaduct before item No.1.	
Handing over of part working area between 3 km21 m150 and NH-4 to C-3 and P- 1(A) for construction of foundation and substructure of viaduct	C-3, P- 1(A)	C-2	C-3, P- 1(A)	C-2 shall hand over part areas to C-3, P- 1(A) as agreed between them for construction of foundation and substructure of viaduct before item No.1.						
7.	Part 2 Section VI-1 General Specifications Division 06000 Site Management	CL.3.1.4 Page 17 of 51	CL.3.1.4 Precondition Survey of Existing Building Structures	<p>It is stipulated that “The Contractor shall prepare and submit to the Engineer for review a report giving the general condition of all existing buildings and structures within the zone of influence. This report shall also include the structural record surveys of the buildings and structures within zone of influence. This report shall be prepared as required by Clause 4.19 (1) of the Technical Specifications, Section VI-2 of Part 2 of Bidding Documents.”</p> <p>However, we note that the referenced Clause 4.19(1), of Technical Specifications, Section VI-2 of Part 2 is titled "TBM Daily Reporting" and is a different work category as compared to "Precondition Survey of Existing Building Structures".</p> <p>Please clarify and correct the Clause to be based on.</p>	Refer Addendum No. 3 Item No. 24.					
8.	Part 2 Section VI-1 General Specifications Division 06000 Site Management	CL.3.1.5 Page 18 of 51	CL.3.1.5 Risk Assessment Report of Existing Building and Structures	<p>It is stipulated that “The Contractor shall prepare and submit to the Engineer for review a report on assessment of the risk of damage to the buildings, structures and utilities within the influence zone due to the proposed works. The possible protective measures that can be deployed shall also be given. This report shall be prepared as required by Clause 4.19 (8) &amp; 4.19 (9) of the Technical Specifications, Section VI-2 of Part 2 of Bidding Documents.”</p> <p>However, we note that the referenced Clauses 4.19(8) &amp; 4.19 (9) of Technical Specifications, Section VI-2 of Part 2 are not found in the tender specifications.</p> <p>Please clarify and provide the correct Clauses to be based on.</p>	Refer Addendum No. 3 Item No. 25.					
9.	Part 2 Section VI-1 General Specifications Division 06000 Site Management	CL.4.3 Page 21 of 51	06040 Contractor’s Temporary Facilities 4. Project Information Signboards CL.4.3	<p>It is stipulated that “These Project information signboards shall be in accordance with the requirements of Clause 3, Sub-Division 04060 [Facilities for Employer’s Personnel] of the General Specifications.”</p> <p>However, we note that there is no Clause 3, Sub-Division 04060 [Facilities for Employer's Personnel] in the General Specifications.</p> <p>Please clarify and provide the correct Clause to be based on.</p>	Refer Addendum No. 3 Item No. 26.					





No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
10.	Part 2 Section VI-1 General Specifications Division 06000 Site Management	CL.9(6) Page 23 of 51	06040 Contractor's Temporary Facilities9. Stockpile Areas CL.9(6).	<p>It is stipulated that “The Contractor shall indemnify the Employer against all claims in relation to stockpile area(s), both during the Time for Completion and after the Works are completed and taken over”</p> <p>We are of the opinion that we cannot be responsible for the stockpile areas after the Works are completed and taken over by the Employer.Please clarify your understanding on this and please amend the clause accordingly.</p>	The Condition(s) of the Bidding Documents shall remain unaltered.
11.	Part 2 Section VI-1 General Specifications Division 06000 Site Management	CL.13.3 Page 25 of 51	06040 Contractor's Temporary Facilities 13. Temporary Roads CL.13.3	<p>It is stipulated that “The Contractor shall note that temporary road shall not be for the Contractor’s exclusive use and shall be subject to relocation or restrictions at his cost during the execution of the Works as and when such relocation or restriction is inevitable. Except in an emergency, the Contractor will be given a prior notice of any such relocation or restriction. The road layout and design proposal shall be revised and re-submitted to the Engineer for consent whenever road arrangements are to be modified for whatsoever reasons.”</p> <p>It is understandable that the Contractor shall bear the cost in case the relocation or restriction is due to his own cause. However, if the relocation or restriction is not under the Contractor’s control, please confirm that such relocation or restriction shall be treated as a Variation under Section VII.</p> <p>GC CL.13.</p>	The Condition(s) of the Bidding Documents shall remain unaltered.
12.	Part 2 Section VI-2 Technical Specifications Division 04130 Supply of Spare Parts, Special Tools and Test Equipment and Software Related Items	CL. 6.4.8 Page 129 of 199 and General Specifications CL. 1.2.2, 1.2.3, 1.2.4, 1.2.5 Pages 77 to 79 of 100	<p>TS CL.6.4 Pump out system in Shafts 2 &amp; 3</p> <p>CL. 6.4.8 Part supply system</p> <p>GS 1.2.2 Manufacture and delivery CL. 1.2.2.4</p> <p>GS CL. 1.2.3 Contract Spares CL. 1.2.3.1 and 1.2.3.2</p> <p>GS CL. 1.2.4 Commissioning Spares CL. 1.2.4.1</p> <p>GS CL. 1.2.5 Defect Notification Spares CL. 1.2.5.1</p>	<p>It is stipulated in TS CL. 6.4.8 that "The Contractor shall ensure supply of spare parts for seven (7) years after delivery of the pump out system."</p> <p>GS CL. 1.2.2.4 stipulates that "It is to be ensured that an adequate supply of Spare Parts shall be available for five (5) years, from the Taking Over of the Works."</p> <p>GS CL. 1.2.3.1 stipulates that "The Contractor shall supply and deliver the Contract Spares to the Employer..."</p> <p>GS CL. 1.2.3.2 stipulates that "The quantities of Contract Spares required for maintenance.....for three (03) years after the Defect Notifications Period (DNP)....."</p> <p>GS CL. 1.2.4.1 stipulates that "The Commissioning Spares are the Spare Parts used by the Contractor until Taking Over, and the Contractor shall prepare sufficient amount in advance."</p> <p>GS CL 1.2.5.1 stipulates that "In addition to the Contract Spares, the Contractor shall keep sufficient stocks of Spare Parts at an on-site or off-site location in India throughout the Defects Notification Periods....."</p> <p>Our understanding of spare parts from the above clauses is as follows :</p> <p>(1) Supply during Commissioning : By Contractor.</p> <p>(2) Supply during DNP (2 years) : By Contractor as and when needed.</p> <p>(3) Supply after DNP : The Contractor shall only supply the Contract</p>	Bidder's understanding is correct

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				<p>spare parts as shown in TSCL. 6.4.6, Table 51. Any other additional items required by the Employer to the fixed Contract spare parts shall be either separately procured by the Employer or to be prepared by the Contractor based on a Variation under Section VII. GC CL.13.</p> <p>(4) Duration of Supply (after Taking Over) under GS CL.1.2.2 "Manufacture and delivery" requires the availability of spares in local or foreign market for 5 years after taking over. However, TS CL.6.4.8 states 7 years after delivery of the pump out system. The availability of the spare shall be the longer duration of the two referenced clauses.</p> <p>Please confirm if our understanding above is correct.</p>	
13.	Part 2 Section VI-3 Drawings	3. NATM Main Tunnel Drawings TD-JIC-IC1-TDC-B01-UST-NTU-20490000 & 20500000	3. NATM Main Tunnel Drawings Main Tunnel Portal - Permanent Reinstatement and Associated Works (1) Location of M.S Gate	<p>The location of M.S Gate is not shown in Drawing No. TD-JIC-IC1-TDC-B01-UST-NTU- 20490000 even though there is a detail for M.S Gate in the Drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-20500000.</p> <p>Please clarify the location and number of M.S Gate to be included in the Price bid for the above mentioned place.</p>	Addendum No. 2 Item No. 1
14.	Part 2 Section VI-3 Drawings Part 1 Section IV Bidding Forms Bill of Quantities Part 2 Section VI-2 Technical Specifications CL. 8 Method of Measurement for Payment	3. NATM Main Tunnel Drawings TD-JIC-IC1-TDC-B01-UST-NTU-20490000 & 20500000 & Bill No. 2.1, Item No. 205 Page 21 of 159 & Bill of Quantities, Item No. 205 Reinforcement Steel Page 176 of 199	<p>&amp; Bill No. 2.1: At Main Tunnel Portal Item No. 205 Supplying, cutting, bending, binding &amp; placement of reinforcement steel of grade Fe500D including spacers in accordance with the Specification and the Drawings</p> <p>&amp; TS CL. 8, Item No. 205 Reinforcement Steel The quantity of steel shall be measured in MT as per the Drawings. Wastages, lapped splices, mechanical joints, spacer bars, chairs,</p> <p>.....</p> <p>.....</p>	<p>There is no detail of reinforcement for the followings even though the related tender document stipulated ".....in accordance with the Specification and the Drawings."</p> <ol style="list-style-type: none"> <li>1) RCC drain</li> <li>2) RCC Catch Pit</li> <li>3) Precast Column</li> <li>4) Precast Panel</li> <li>5) Cast-in-situ column cap</li> <li>6) RCC Pedestal</li> </ol> <p>Please provide the reinforcement detail for the above said works. We believe that such design information will be issued as Addendum of the Bidding Documents soon.</p>	Refer Addendum No. 2 Item No. 1.
15.	Part 2 Section VI-4 Reference Information/Reports	6. Special Crossings Reference Information Att. 6A Page 2 of 9	<p>6. Special Crossings 6A. Drawings Location of Pier for Proposed Flyover and Metro Alignment @0km802m</p> 	<p>Chainage of Tunnel not shown in drawing. Please provide chainage. We believe that such design information will be issued as Addendum of the Bidding Documents soon.</p>	Refer Addendum No. 3 Item No. 64.

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16.	Part 2, Section VI-4, Reference Information/Reports	6. Special Crossings Reference Information Attachments 6A & 6B Att. 6A - Page 3 of 9 Att. 6B - Page 2 of 24	6. Special Crossings 6A. Drawings 6B. Status of As-built Drawings Cross Section of the Revetment for River (0km920) (1) Att. 6A page 3 of 9 - The contents of NOTE as below NOTE <ul style="list-style-type: none"> <li>Rock head level was assumed from geological profile.</li> <li>JICC has been submitted the letter to add boring for confirming rock head already.</li> <li>This Drawing will be used in tender Drawings as information Drawings.</li> </ul> (2) Att. 6B page 2 of 24 - Chainage of Crossing shows 0km92	(1) Att. 6A page 3 of 9 - The contents of NOTE are incomplete. Please provide latest details, if available. (2) Att. 6B page 2 of 24 - Chainage of Crossing shows 0km92 in Att. B as compared to 0km920 in Att. A. Please clarify the correct chainage.	Refer Addendum No. 3 Item No. 64 & 65.								
17.	Part 2 Section VI-4 Reference Information/Reports	6. Special Crossings Reference Information Attachment 6A Page 9 of 9	6. Special Crossings 6A. Drawings Cross Section of the Underpass Structure (16km075) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Crossing Structures</th> </tr> <tr> <th>Structure</th> <th>Chainage</th> </tr> </thead> <tbody> <tr> <td>MMRDA Flyover</td> <td>0km800 to 0km820</td> </tr> <tr> <td>Mithi River Revetment</td> <td>0km92</td> </tr> </tbody> </table>	Crossing Structures		Structure	Chainage	MMRDA Flyover	0km800 to 0km820	Mithi River Revetment	0km92	Cross Section of the Underpass Structure (16km075)  NOTE Underpass structure dimension, size, position are not confirmed. This drawing is just assumed by JICC. JICC has been submit letter to collect information of this already.  The contents of NOTE are incomplete. Please provide latest details, if available	Refer Addendum No. 3 Item No. 64.
Crossing Structures													
Structure	Chainage												
MMRDA Flyover	0km800 to 0km820												
Mithi River Revetment	0km92												
18.	Part 2 Section VI-4 Reference Information/Reports	Reference Documents	The Bidding Documents include Reference Information/ Reports. The data provided in the Reference Information / Reports is indicative and for reference only. The Employer bears no responsibility as to its accuracy and adequacy.	It is not possible for the bidder to verify all the site data and sub soil conditions. The bid price will be based on the details and reports provided along with tender documents. Request Employer to own the responsibility of the documents like Geotechnical reports etc issued by the Employer himself.	The Condition(s) of the Bidding Documents shall remain unaltered.								
19.	Part 2 Section VI-1, Specification (General Specifications)	Cl. 10, Land for Casting Yard	The land available within the ROW may be used by the Contractor for storage of materials, concrete batching /mixing plants, casting yards, curing yard and stacking yards subject to the consent of the Engineer. The Contractor shall arrange any additional areas as required by him at his own discretion and cost.	Land available in ROW is not Sufficient for accommodating complete casting yard setup required to facilitate production of Precast Tunnel segments. Kindly provide separate casting yard land of area 20000sqm with in 15Km radius of TBM tunnel alignment.	The Condition(s) of the Bidding Documents shall remain unaltered.								
20.	Part 2 Section VI-1, Specification (General Specifications)	Payment for Abnormal Consumption of Cutter Discs	p	Scope of work contains TBM tunnelling of approx. 15km in highly varying geology. Based on soil data provided in tender document contractor will assume a cutter disc consumption. But during actual execution if geology shows high level of variation then this cutter disc consumption will increase or decrease. So, it is requested to provide payment of cutter disc as on actual basis.	The Condition(s) of the Bidding Documents shall remain unaltered.								

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
21.	Part 2, Section VI-2. Specification (Technical Specifications),	Cl. 3.3 Disposal Yard	The surplus excavated material (that cannot be used in the Works), shall be treated as contractor's property. The contractor shall be free to take away and make use of this surplus excavated material in the manner he wishes to, including disposal in spoil dumps or elsewhere as approved by the Engineer/concerned parties and regulating authorities. The employer takes no responsibility for the arrangement of dumping areas and these will have to be arranged by the Contractor at his own cost.	Huge land area will be required for Dumping of excavated muck. Therefore, it is requested to provide land for disposal of excavated muck indicating area and lead from proposed site.	The Condition(s) of the Bidding Documents shall remain unaltered.
22.	Part 2, Section VI-3. Drawings	Drawings		Kindly provide drawings in AutoCAD format.	AutoCAD drawing cannot be provided at this stage.
23.	Part 3, Section VIII. Particular Conditions (PC), Part B - Specific Provisions	Sub-Clause 1.5 Priority of Documents	<p>Priority of Documents :</p> <ul style="list-style-type: none"> <li>a) the Contract Agreement,</li> <li>b) the Letter of Acceptance,</li> <li>c) the Record of Meeting on Contract Negotiation,</li> <li>d) the Addenda (the items of the Addenda shall have priority over the respective items of the related section of the Contract Documents),</li> <li>e) the Price Bid,</li> <li>f) the Technical Bid, excluding the Contractor's Technical Proposal,</li> <li>g) the Particular Conditions -Part A,</li> <li>h) the Particular Conditions -Part B,</li> <li>i) these General Conditions,</li> <li>j) the Specification - Technical Specifications,</li> <li>k) the Specification - General Specifications,</li> <li>l) the Drawings,</li> <li>m) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans,</li> <li>n) the Contractor's Technical Proposal,</li> <li>o) the Reference Information/ Report, and</li> <li>p) Any other documents forming part of the Contract.</li> </ul>	<p>We request of replace the existing clause with mentioned below:</p> <p>Priority of Documents :</p> <ul style="list-style-type: none"> <li>a) the Contract Agreement,</li> <li>b) the Letter of Acceptance,</li> <li>c) the Record of Meeting on Contract Negotiation,</li> <li>d) the Addenda (the items of the Addenda shall have priority over the respective items of the related section of the Contract Documents),</li> <li>e) the Price Bid,</li> <li>f) the Technical Bid, <del>excluding</del> including the Contractor's Technical Proposal,</li> <li>g) the Particular Conditions -Part A,</li> <li>h) the Particular Conditions -Part B,</li> <li>i) these General Conditions,</li> <li>j) the Specification - Technical Specifications,</li> <li>k) the Specification - General Specifications,</li> <li>l) the Drawings,</li> <li>m) the Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans,</li> <li>n) <del>the Contractor's Technical Proposal,</del></li> <li>o) the Reference Information/ Report, and</li> <li>p) Any other documents forming part of the Contract.</li> </ul>	The Condition(s) of the Bidding Documents shall remain unaltered.





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24.	Part 2, Section VI-3. Drawings	Steel Segments	Steel segments drawings	Kindly provide fabrication drawings of Steel segments drawings.	Refer Clause 1 of Sub-Division 05020 of the GS.
25.	Bidding Documents - Part 2, VI-1. Specification (General Specifications)	Cl. 2.2.2, Chartered Utility, Page 35 of 51,	The Contractor shall make his own assessment of the Chartered Utilities which may require relocation and accordingly make necessary provision in the price bid. No extra payment shall be made for removal/relocation/diversion of the Chartered Utilities. However, the payment for support/diversion of chartered utilities existing at MIDC road shall be made under Specified Provisional Sum.	Request you to provide the BOQ for the Chartered Utilities, which will help us for better planning and estimation.	The Condition(s) of the Bidding Documents shall remain unaltered.
26.	Bidding Documents - Part 2, C-2 VI-1. Specification (General Specifications),	Approvals	In addition to the above and prior to the implementation of any Site-specific traffic control schemes, the Contractor shall obtain any necessary approval letters from relevant authorities who have jurisdiction over or ownership of the existing traffic way including the Traffic Police, NHAI, PWD and any other local government/ authorities and other related parties having jurisdiction, as applicable and as required.	It is very difficult for the Contractors to obtain statutory permissions from concerned authorities/ Railway department. Hence, we request Employer to undertake all statutory permissions for the clearances & approvals.  In case there is any delay on account of obtaining permissions, Contractor shall be suitably compensated in terms of time and cost.	The Condition(s) of the Bidding Documents shall remain unaltered.
27.	Bidding Documents - Part 2 VI-1. Specification (General Specifications)	Cl. 2, Approvals, Environmental Management Plan: Background, Page 13 of 16,	In addition to the JICA requirements, some other clearances/ approvals not only from central or state government authorities but also from local authorities would be required if it is applicable for the construction methodologies by the Contractor.		
28.	Bidding Documents - Part 2, VI-1. Specification (General Specifications)	Detailed Description of the Scope of Works, Cl. 10, Approvals, Page 11 of 11	<u>Mandatory Approvals from the concerned Authorities:</u>  The Works may require mandatory clearance / approval / sanction from the concerned Railway Authorities/ Civil Authorities before they can be undertaken by the Contractor. The responsibility of obtaining necessary sanction / clearance of the concerned authorities before undertaking the work rests with the Contractor.		
29.	Part 3, Section VIII- Part B – Specific Provisions	Sub-Clause 4.25, Milestone Certificate, Page 13 of 33,	If no Milestones are specified in the Contract Data, this Sub-Clause shall not apply.....the Milestone Certificate shall be deemed to have been issued on the	Once the Milestone Certificate is issued and area handed over to the Interface Contractor, damages / defects caused by the interface Contractor will not be remedied by the Contractor either at the material time or during DNP. Thereafter, if any damages / defects are	The Condition(s) of the Bidding Documents shall remain unaltered.

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
			date which is 14 days after the date stated in the Contractor's notice of application."	required to be remedied by the Contractor then time and cost will be to the account of Employer.	
30.	Part 3, Section VIII- Part B – Specific Provisions	Sub-Clause 4.2, Performance Security, Page 06 of 33,	The Performance Security shall be in the form of a demand guarantees in the amount(s) of 5% (five percent) of the Accepted Contract Amount and in the same currencies of the Accepted Contract Amount.	Damages for Late Submission should be with respect to Accepted Contract Amount instead of Contract Price.	Refer Addendum No. 3 Item no. 100.
31.	Part 3, Section VIII- Part B – Specific Provisions	Sub-Clause 14.2, Advances, Page 06 of 33,	Advance payment 15% (fifteen percent) of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable. The Advance Payment shall be made in two instalments as under: a) 10 (ten) percent: On submission of a Performance Security; and b) 5 (five) percent: On submission of proof of placement of order for three (3) TBMs.	Guarantee to be submitted within 28 days of signing of Contract Agreement should be for the amount equal to 1st instalment of Advance only i.e. 10 % of Accepted Contract Amount	The Bidder shall submit the Bank Guarantees within 28 days of signing of Contract Agreement for the amount equal to 15% of Accepted Contract Amount.  The Bidder may submit separate Bank Guarantees for Advance Payment installation covered under Sub-Clause 14.2 (a) & (b).
32.	Part 3, Section VIII- Part B – Specific Provisions	Sub-Clause 1.1.3.7, Defects Notification Period (DNP), Page 05 of 33	Defects Notification Period = 730 days	730 days is the maximum permissible under FIDIC if the Work or Section after taking over cannot be used for the intended purpose then Extension of DNP is permissible. At the outset DNP should be 365 days	The Condition(s) of the Bidding Documents shall remain unaltered.
33.	Part 3, Section VIII- Part B – Specific Provisions	Sub-Clause 8.7, Delay Damages, Page 06 of 33	Delay damages for the Works: 0.05% (zero-point zero five percent) of the Contract Price per day. For Milestones refer to Table: Summary of Milestones, below.	Since delay damages are genuine pre-estimate of loss, they should be expressed as percentage of Accepted Contract Amount instead of Contract Price.	The Condition(s) of the Bidding Documents shall remain unaltered.
34.	Bidding Documents - Part 1, Section III, Evaluation and Qualification Criteria	4.2.5 Major Plant & Equipment, S.no. 1 of Table, regarding TBM, Page 30 of 31.	Major Plant & Equipment: 100% Brand new Slurry TBMs with full back up arrangements complete including lining erection equipment. = 3 Nos.	It is requested by Contractor to allow Refurbished Slurry TBM. Please confirm.	The Condition(s) of the Bidding Documents shall remain unaltered. Refer to Addendum No. 3 Item No. 6 & 31.
35.	Part 3, Section VIII. Particular Conditions (PC), Part A - Contract Data	Sub-Clause 1.1.5.9 Milestones	Milestone 5 - 1110 days Milestone 6 - 1185 days Milestone 7 - 1035 days Milestone 8 - 1035 days	Request of modification as follows: Milestone 5 - 1330 days Milestone 6 - 1725 days Milestone 7 - 1428 days Milestone 8 - 1725 days	Refer Addendum No 3 Item No 109.
36.	Part 3, Section VIII. Particular Conditions (PC), Part A - Contract Data	Sub-Clause 1.1.3.3, Time for Completion	1280 days	Kindly provide total duration of 1825 days.	Refer Addendum No 3 Item No 107.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
37.	Part 3, Section VIII. Particular Conditions (PC), Part A - Contract Data	Sub-Clause 14.3(C), Retention Money	10 % of the amount due to the Contractor in IPC from time to time will be made subjected to maximum of 3% of the Accepted Contract Amount excluding the Provisional Sum	It is requested to incorporate provision of Bank Guarantee in lieu of retention money deduction.	Refer to Addendum No. 3 Item No. 102.
38.	Part 3, Section VIII. Particular Conditions (PC), Part A - Contract Data	Cl. 20.6, Place of Arbitration	Singapore	We request you to change it to India.	The Condition(s) of the Bidding Documents shall remain unaltered.
39.	Part 3, Section VIII. Particular Conditions (PC)	Bank Guarantee	Bank guarantee for Bid security, Advance and Performance security	It is requested that Split BGs from number of banks can be permitted for Bid Security, advance and Performance Security.	Split BGs from number of banks are permitted. For the Advance Payment refer Subclause 14.2 of the Particular Conditions.
40.	Part 1, Section II. Bid Data Sheet	BDS-ITB 7.4, Site Visit, Page 4 of 31	No site visit will be conducted by the Employer.	We request you to organise the joint site visit.	Refer Addendum No. 1, Item No. 1
41.	Part 1, Section II. Bid Data Sheet	BDS-ITB 7.4, Pre-bid meeting, Page 4 of 31	Pre-Bid Meeting	We request you to arrange 2nd Pre-Bid meeting also as there will be some more additional queries which will come after further working on Tender documents.	No 2nd Pre-Bid Meeting to be conducted. The Condition(s) of the Bidding Documents shall remain unaltered.
42.	Part 1, Section II. Bid Data Sheet	BDS-ITB 22.1, Bid submission, Page 9 of 31	Bid Due Date - 23rd August 2019	Considering the complexity of the project, we request you to extend Bid Due Date to 23rd October 2019	The Condition(s) of the Bidding Documents shall remain unaltered.
43.	Part-2, Section VI-1. Specification (General Specifications)	Cl. 7, Temporary Design	Design Requirement of the Temporary Works by the Contractor- (a) Design of Temporary Shafts 2 and 3; (b) Design of temporary support system for excavation at EquipmentRooms and niche in Adit; (c) Design of temporary support system for TBM docking zone; (d) Design of temporary portal including tunnel eye protection at MIDCroad and at Adit for starting tunnel excavation; (e) Design of all other Temporary Works including dewatering, ventilation, lighting, etc. as directed by the Engineer.	As permanent works Design and BOQ is been provided by employer. We request employer to provide Design and BOQ for Temporary works mentioned in subject clause.	The Condition(s) of the Bidding Documents shall remain unaltered. Also refer to Addendum No. 3 Item No. 66,72,73 & 75.
44.	Part 1; Section III. Evaluation and Qualification Criteria,	Page 24 of 31;3.2(d)(iii) Key activities	(b) Construction of minimum two thousand (2000) m rail/metro rail/road tunnel by NATM	Request to kindly consider hydro tunnels also by NATM/Drill & Blast Method.	The condition(s) of the Bidding Documents shall remain unaltered.
45.	Bidding Documents - Part 1; Section II, Bid Data Sheet	ITB 7.1 Page 4 of 31	The Employer response will be uploaded on the Employer's.....49 days prior to the deadline	Bidder request the Employer to modify the clause as " The Employer's response will be uploaded on the Employer's webpage no later than Seven (7) days prior to the deadline of the submission of Bids, provided that such request is received no later than Fourteen (14) days prior to the deadline"	The condition(s) of the Bidding Documents shall remain unaltered.

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
46.	General		General Arrangement Drawings in AutoCAD Format	It is kindly requested to provide project general layout drawing with contours and co-ordinates in AutoCAD format	The condition(s) of the Bidding Documents shall remain unaltered.
47.	Part 2, Section VI-2, Specifications ( Technical)	3.3	Location of Muck Disposal Area	It is specified that "The employer takes no responsibility for the arrangement of dumping areas and these will have to be arranged by the Contractor at his own cost." The Employer must appreciate the fact that availability of land to accommodate huge quantity of muck to be disposed is very crucial. In order to save time on searching and finalising the land for muck disposal and bringing all the bidders at same platform, it is requested to the Employer to identify and acquire the land for Temporary as well as Permanent Dump Yards and provide the location of same on map.	The condition(s) of the Bidding Documents shall remain unaltered.
48.	Part 2, Section VI-1, Specifications ( General)	8	Borrow Areas and Quarries	It is requested to Employer that, in order to save time on searching and finalising the land for Borrow Areas & Quarries and to bring all bidders at same platform, the Employer: - identify and acquire the land for Borrow Areas & Quarries with suitable quality and sufficient quantity of material - provide the location of same on map	The condition(s) of the Bidding Documents shall remain unaltered..
49.	General		Construction Water	Bidder requests the Employer to kindly identify and provide the sources of Construction water fit for use and in sufficient quantity.	There is no Clause reference. Refer to Sub Division 06040 of General Specifications
50.	General		Waste Water Disposal Sanitation & Sewerage	Bidder requests the Employer to kindly provide the locations where the waste water can be disposed off	There is no Clause reference. Refer to Sub Division 06040 of General Specifications
51.	Part 1, Section IV. Bidding Forms / Bill No. 2.0	Permanent Reinstatement and Associated Works at Portals/ Bill No. 2.1: At Main Tunnel Portal / 203	“Construction of rectangular shaped precast or cast in-situ RCC drain of any size of concrete grade M-35 with precast concrete perforated covers & construction of RCC catch pits including excavation, muck disposal, backfilling, form work, concreting, compacting, curing and all temporary works required to construct the same excluding, cost of reinforcement steel in accordance with the Specification and the Drawings.”	Specified drawings are not available. Please provide the same.	Refer Addendum No. 2 Item No. 1
52.	Part 1, Section IV. Bidding Forms / Bill No. 2.0	Permanent Reinstatement and Associated Works at Portals/ Bill No. 2.2: At Adit Portal / 219	“Construction of metaled access road in accordance with the Specification and the Drawings. iv) Side drains”	Specified drawings are not available. Please provide the same.	Refer Addendum No. 2 Item No. 1
53.	Bid Doc-Vol-3-part-1-Section III, Evaluation and Qualification Criterionstage-4	4.2.5-SI.NO-64 & 5	3 Nos. Single Boom Jumbo & 3 Nos. Three Boom Jumbo	Bidder requests the Employer to provide the Contractor with the liberty of selecting Single Boom/Two Boom/Three Boom Drill jumbos.	The condition(s) of the Bidding Documents shall remain unaltered.
54.	Bid Doc-Vol-3-part-1-Section III, Evaluation and Qualification Criterionstage-4	4.2.5-SI.NO-6	Major plant and equipment - Ventilation system during construction	Bidder understands from the tender that Tunnel Ventilation system (permanent) is not part of this package, while ventilation system during construction (as per BOCWR requirement) will only be applicable. Please do confirm the same.	Bidder's understanding is correct.





No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
55.	Part 1, Section IV. Bidding Forms	1.1	Schedule of Adjustment data - Source of Index for Cement & Steel: All India Wholesale Price Index by the Reserve Bank of India. (Base Year 2011-12 = 100)	It is hereby requested to consider Star Prices of Cement & Steel for Price adjustment	The Condition(s) of the Bidding Documents shall remain unaltered.
56.	Part 1, Section IV. Bidding Forms	1.1	Schedule of Adjustment data - Source of Index for Fuel & Power: All India Wholesale Price Index by the Reserve Bank of India. (Base Year 2011-12 = 100)	It is hereby requested to consider i) For Fuel: Actual Wholesale Price of HSD as per list price fixed by IOCL (Mumbai) for the last day of the month for which the bill is being raised ii) For Power: Actual Variation in Price/Kwh may be reimbursed on consumption basis.	The Condition(s) of the Bidding Documents shall remain unaltered.
57.	Part 1, Section IV. Bidding Forms	2.7	Work Items - Summary of Specified Provisional sums: Provisional amount as considered for Unchartered utilities - Rs. 10 Cr.	It is requested that the cost incurred by the Contractor towards shifting/protection of unchartered utilities may please be paid as actuals, with an additional provision for Overhead's & profit	The Condition(s) of the Bidding Documents shall remain unaltered.
58.	Part 1, Section V. Bidding Forms	2.1.4	Bill No. 4 - TBM Tunnel	Bidder requests the Employer to provide separate Line items in BOQ as below: i) TBM Factory Acceptance Test (UOM: Nos. and Quantity: 3) ii) Receipt of TBM's at site (UOM: Nos. and Quantity: 3) iii) Commissioning of TBM (UOM: Nos. and Quantity: 3)	The Condition(s) of the Bidding Documents shall remain unaltered.
59.	Part 1, Section V. Bidding Forms	2.1.4	Existing Buildings & Structures	The Employer is requested to provide separate BOQ items for following i) Survey of Existing Buildings & Structures ii) Instrumentation & Monitoring iii) Protection/Retofitments/repair/replacement of EBS iv) Payment of Compensation for any consequences in EBS and any other structures and mention the quantities against the above.	The Condition(s) of the Bidding Documents shall remain unaltered.
60.	Part 1, Section IV. Bidding Forms	2.1.5	Even when T-1 & E-1.....items mentioned in this clause.	Request you to provide the construction schedule for T1 & E1 Package. Also, inform the period for which the Contractor need to provide temporary facilities like lighting and pump out system	Construction Schedule for T-1 and E-1 Package will be provided after award of Contract. Refer Sub-Clause 2.1.5 of Section-IV Bidding Forms for temporary facilities like lighting and pump out system.
61.	Bid Doc-Vol-1-part-2	01010		Panels for pump out system, ground earth system and location indication lamps only is in the scope of the bidder. Rest of the complete electrical systems for the tunnel is not part of the scope of this package. Please do confirm. Further, (ii) Request to provide the list of suggested vendors for the electrical systems which part of this package. (iii) Request to provide the technical details for the location indicator lamps.	(i) & (iii) Refer Addendum No. 3 Item Nos. 118,119, 120 and 121. (ii) The Contractor shall propose the vendors for the approval of the Engineer.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
62.	Part 2, Section VI-1, Specifications ( General)	Table 5	Interface between C-2 Contractor and E-1 Contractor, Sr.no.4 & 11. C-2 shall provide electric demand for pump out system. C-2 shall procure and install location indication lamps. E-1 shall connect power cable. Interface between C-2 and E-1	Bidder understands that E-1 contractor shall supply and terminate suitable power supply cables at electrical panel considered for pump out system & location indication lamps in main tunnel, shaft 2 &3 and Adit tunnel. Request to kindly confirm.	Bidder's understanding is correct.
63.	Part 2, Section VI-1, Specifications ( General)	01020	Scope of Work Setting up of Casting Yard	Bidder requests the Engineer to kindly provide the locations identified by the Employer for Casting Yard(s) marked in the drawing.	Refer to Clause 3 of Sub-Division 06010 of GS.
64.	Part 2, Section VI-1, Specifications ( General)	01020	Scope of Work 9. Interface with other Contractors	Bidder requests the Employer to kindly provide the schedule of all the Packages interfacing with C-2 Package.	Construction Schedule for all the Packages interfacing with C-2 Package will be provided after award of Contract.
65.	Part 2, Section VI-1, Specifications ( General)	01020	Scope of Work 10. Mandatory approvals from the concerned authorities	We request the Employer to provide necessary support in this regard	Refer Sub-Division 04050 of General Specifications
66.	Part 2, Section VI-1, Specifications ( General)	06010	The Site - Access to Site	We assume that the access and ROW to Shaft locations, Main Tunnel Portal and Adit portal is available with the Employer. Please confirm.	Refer Clause 2 of Sub-Division 06010 of the GS for access to the Site. For schedule of hand over of the Site, refer Sub-Clause 2.1 of Part A - Contract Data, Section VIII, Part 3 of the Bidding Documents.
67.	Part 2, Section VI-1, Specifications ( General)	2020	Natural Conditions 4. Geotechnical Information	It is observed that the Borehole data as provided by the Employer from Chainage 1.0 Km to 6.0 Km and at few chainages between 16.0 Km to 21.0 Km are at an interval of 1.0 Km. Borehole data at an interval of 1.0 Km does not depict the actual ground conditions and accordingly it is requested to kindly provide i) Geological Base Line Report ii) Borehole data at a minimum interval of 250 mtrs throughout the tunnel alignment	Refer Clause 1 of Sub-Division 06030 of General Specifications.
68.	Part 2, Section VI-1, Specifications ( General)	04060	Facilities for Employer's/Engineer's Personnel	Bidder requests the Employer to identify and mark the locations in drawings, where these facilities are to be constructed.	Locations for facilities for Employer's/Engineer's personnel shall be proposed by the Contractor and shall be approved by the Engineer. Please refer to Clause 1 of Sub-Division 04060 of the GS.
69.	Part 2, Section VI-1, Specifications ( General)	04060	Site Offices are to be of a layout and construction (using either pre-fabricated units or custom-built construction) acceptable to the Engineer	For faster construction, the Bidder proposes pre-fabricated units. Request to confirm.	Refer Sub-Clause 1.1 (d) of Sub-Division 04060 of General Specifications.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
70.	Part 2, Section VI-1, Specifications ( General)	04090	Work Area (Within ROW) Access Dates - Work Area Access Schedule	Referring to the Work Area access schedule and Milestone schedule, the duration available for completion of works seems to be unrealistic. We request the Employer to provide the detailed construction programme and rate of penetration of TBM's considered in various geological conditions. Also, we request the Employer to ensure the availability of Shaft locations and ROW on the date of commencement. Also, Provide the schedule for Issuance of GFC Drawings.	The Condition(s) of the Bidding Documents shall remain unaltered. The Detailed Construction Program should be assessed by the Bidder.
71.	Part 2, Section VI-1, Specifications ( General)	04110 - Milestone	Milestone Schedule		
72.	Part 2, Section VI-1, Specifications ( General)	4.24(6)	Ground earth system shall be provided as shown in the Drawings and as per noticed method statement. The specifications of material and method of inspection & testing shall be in accordance with the Drawings.	Specified drawings are not available. Request to please provide	Refer Addendum No. 2 Item No. 1.
73.	Part 2, Section VI-1, Specifications ( General)	5.4.1 part 2	Ventilation and Illumination	It is understood that the fresh air supply in such tunnel is not less than 6m <sup>3</sup> /min for each worker employed. Further, please specify: (i) Fresh air requirement to exhaust emissions from construction equipment (ii) Return air velocity in such tunnel (iii) Permissible level of harmful gases	Refer Sub-Clause 6.8.1 of Appendix 08000-1 of the General Specifications and Sub-Clause 4.32(1) of Technical Specifications.
74.	Part 2, Section VI-1, Specifications ( General)	5.4.4 part 2	Illumination - The contractor shall conduct a monthly illumination monitoring by a LUX meter for all the locations ....."	Request to specify minimum illuminance level required.	Refer Sub-Clause 4.32 (1) of the Technical Specifications.
75.	Part 2, Section VI-2, Specifications ( Technical)	2.1.(2)	Loads	In the listed loads for the design of temporary shafts, the Seismic load is not mentioned. We understand that for design of temporary structure, the seismic load is not considered. Please confirm.	It is to be decided by the Contractor so as to ensure safety of the work during execution
76.	Part 2, Section VI-2, Specifications ( Technical)	2.1.(2)	Loads	It is specified that the walls of temporary shafts shall be designed as retaining wall or continuous wall comprising of secant piles with capping beam. If the hard rock is encountered at shaft location, can alternate rock support measures be used instead of Continuous wall. Please confirm.	Refer Addendum No. 3 Item No. 89.
77.	Part 2, Section VI-2, Specifications ( Technical)	4.31	Reinforcement Bar Corrosion Monitoring System "The contractor shall supply three (3) Nos. of hand measuring instruments including operation manual to the Engineer / Employer."	Request to provide the technical datasheet for the referred system.	Refer Addendum No. 3 Item No. 70
78.	Part 2, Section VI-2, Specifications ( Technical)	4.7.11	Blasting - After blasting at least 75% of the perimeter row blast hole traces (half barrels) must be measurable.	Bidder would like to mention here that the traces (half barrels) depends upon the quality of rock. 75% of perimeter row blast hole traces may not be possible in all conditions. It is requested to Employer to re-consider and define based on the Rock classes.	Refer Addendum No. 3 Item No. 43
79.	Part 2, Section VI-2, Specifications ( Technical)	4.16	Primary and Secondary Grouting	The thickness of the Primary grout zone between Segment Outer surface and rock is not indicated. Kindly indicate the same for estimation of quantities.	This has to be decided by the Bidder considering the design of the TBM proposed to be used.

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
80.	Part 2, Section VI-2, Specifications ( Technical)	4.2.1	Breakthrough of TBM-1 and its removal	We understand that the construction of Shaft 1 including soft eye is in the scope of C1 contractor. Bidder requests the Employer to provide the construction schedule and design details of shaft 1 at the date of commencement.	Refer Addendum No. 3 Item No. 15.
81.	Part 2, Section VI-2, Specifications ( Technical)	4.24.5	Waterproofing of equipment room	The bidder requests the Employer to provide detailed drawings indicating the waterproofing arrangement proposed in equipment rooms.	Refer Addendum No. 2 Item No. 1.
82.	Part 2, Section VI-2, Specifications ( Technical)	4.25	Drainage System - "The drainage system in TBM tunnel shall consist of central drain of 800 mm diameter HDPE pipe with 4.5 mm wall thickness conforming to IS: 16098-2, drain pits/inspection boxes with MS grating and hand holes of various sizes with cover as shown in the Drawings."	Specified drawings are not available. Bidder requests the Employer to provide the same.	Refer Addendum No. 2 Item No 1 and Addendum No. 3 Item No. 40.
83.	Part 2, Section VI-2, Specifications ( Technical)	4.30	Inspection of tunnel lining before taking over	Bidder requests the Employer to provide the codes/guideline for the Inspection & testing of tunnel linings. It is also requested to confirm i) Parameters to be recorded ii) approval criterion	The Condition(s) of the Bidding Documents shall remain unaltered.
84.	Part 2, Section VI-2, Specifications ( Technical)	5.6	Definition of D-Line ( Deformation in Rock Mass)	Being an item rate contract, it is requested to Employer to provide the deformation tolerances to be considered in various Geological Conditions and Rock Cover	The Condition(s) of the Bidding Documents shall remain unaltered.
85.	Part 2, Section VI-2, Specifications ( Technical)	5.6	Measures for Face Stabilization	Bidder requests the Employer to provide (i) Drawings for face stabilisation (ii) BOQ Line item for the same	Face stabilisation is a temporary work. The drawings of the temporary works are to be prepared by the Contractor. The cost for measures of face stabilisation are included in the related BOQ items. Hence no separate BOQ item is required.
86.	Part 2, Section VI-2, Specifications ( Technical)	5.6.3	Temporary Drainage during construction	The expected seepages in various zones may please be provided to assess the dewatering requirements.	This is to be assessed by the Contractor.
87.	Part 2, Section VI-2, Specifications ( Technical)	5.7.1.15	Permissible PPV	Please confirm that the indicated PPV in the table-22 is not applicable to the shotcrete applied as Rock support	There is no reference to shotcrete in Table 22.
88.	Part 2, Section VI-2, Specifications ( Technical)	5.8.2	Mucking Machine	Please confirm that excavators / Wheel loaders are acceptable as Mucking machines	The condition(s) of Bidding Documents shall remain unaltered.
89.	Part 2, Section VI-2, Specifications ( Technical)	5.9.3	Support system may be reviewed if selected support system is not found satisfactory	Additional support if required , will increase the Cycle time than, as planned. Bidder understands that additional time, if any, will be compensated in terms of both time and cost, as actuals	The condition(s) of Bidding Documents shall remain unaltered.





No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
90.	Part 2, Section VI-2, Specifications ( Technical)	5.11.2d	The minimum uniaxial compressive strength of sprayed shotcrete on 28 days on in-situ cylindrical core specimen prepared as per JSCE-F 561-2000, shall be 18 N/mm <sup>2</sup> .	Please reconfirm the UCS for Shotcrete.	Bidder's understanding is correct.
91.	Part 2, Section VI-2, Specifications ( Technical)	5.15.4.ii	Anchor Bolts shall be placed before placing concrete	Please provide the detailed drawing and specification for Anchor Bolts being referred.	Detailed drawings are already provided in Section VI-3.
92.	Part 2, Section VI-2, Specifications (Technical)	5.16	Drainage System - "Water collected from waterproofing membrane and from side drains of walkway shall be taken through vertical pipes to transverse pipes which will discharge into a central drain. Central drain shall consist of a 450 Ø perforated HDPE pipe conforming to IS: 16098-2 embedded in a trench with single size crushed stone No.4. Inspection boxes (drainage pits) with MS grating and hand holes of various sizes with cover shall be provided as shown in the Drawings."	Specified drawings are not available. Please provide the same.	Refer Addendum no 2 Item no 1 and Addendum no 3 Item no. 41.
93.	Part 2, Section VI-2, Specifications ( Technical)	5.18	Auxiliary Support	The Bidder would like to express here that the assessment of Auxiliary support at bidding stage is not possible as the same depends upon the actual geological conditions encountered during the excavation. Therefore, it is requested to the Employer to provide the detailed drawings and Specifications for same. Also, please provide the quantities for various types of Auxiliary support to be considered in BOQ.	The condition(s) of Bidding Documents shall remain unaltered.
94.	Part 2, Section VI-2, Specifications ( Technical)	5.19	Equipment Room - "Water proofing, drainage and ground earth system shall be provided in Equipment Rooms in accordance with the Drawings."	Specified drawings are not available. Request to provide the same	Refer Addendum no 2 Item no 1.
95.	Part 2, Section VI-2, Specifications ( Technical)	5.26	General	Request to provide the Architecture / Configuration drawing of the IT system.	The condition(s) of Bidding Documents shall remain unaltered.
96.	Part 2, Section VI-2, Specifications ( Technical)	5.26	IT system for Instrumentation Data Monitoring and Data Management - Database Requirement	Request to provide the total number of Input/output (I/O) points in a detailed list including the types of I/O.	The condition(s) of Bidding Documents shall remain unaltered.
97.	Part 2, Section VI-2, Specifications ( Technical)	5.26	IT system for Instrumentation Data Monitoring and Data Management - Reporting	Please confirm whether Printers are to be provided. If yes, please do provide the technical specification.	The condition(s) of Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
98.	Part 2, Section VI-2, Specifications ( Technical)	6.4	Pump out system in Shafts 2 & 3 - “The Contractor shall provide pump out system in each shaft for draining the seepage inflow of tunnel collected in the sumps located at the bottom of shafts. The arrangement of providing pumps and the pipe lines is shown in the Drawings.”	Specified drawings are not available. Please provide the same. Kindly provide the outfall location and invert levels for discharge of waste water.	Refer Addendum no 2 Item no 1.
99.	General		Requirement of water supply and sewage systems	Bidder understands that the scope of water supply and sewage systems including tanks for equipment rooms / shafts / ventilation building (Permanent works) are not part of this package. Please confirm.	Bidder's understanding is correct.
100.	General		Scope of Firefighting system for Tunnels	Bidder understands that the scope of construction of Fire water storage tank & Fire water pump house at tunnel portals (Permanent works) are not part of this package. Please do confirm.	Bidder's understanding is correct.
101.	Section VI - 3 Drawings	Drawing No. - TD-JIC-IC1-TDC-B01-UST-NTU-00030000	Detail Dimensions of Equipment Room for NATM Tunnel	It is kindly requested to provide arrangement of equipment room with its dimensions; and cross-section of NATM Tunnel at Equipment room location.	Refer relevant Drawings.
102.	Section VI - 3 Drawings	Drawing No. - TD-JIC-IC1-TDC-B01-UST-NTU-20240000	Concrete in arch lining in cut & cover	Details of 1m thick concrete (M10) in arch zone of Cut & Cover is not clear. Is it proposed in local region or entire cut & cover, pls confirm?	Refer Addendum no 2 Item no 1
103.	Section VI - 3 Drawings	TBM drawings, Drawing No. TD-JIC-IC-1-TDC-B01-UST-NTU-10200000,10210000-10270000	Arrangement of Reinforcement	The specification of reinforcement marked as AG/BG/KG is defined as Glass fibre reinforced polymer rod. However, specification of reinforcement marked as AH/BH/KH is not defined. Is it similar to the reinforcement A/B/K as Fe 500D TMT? Bidder requests the Employer to confirm.	Bidder's understanding is correct.
104.	Part 3; Section VII. General Conditions (GC)	Clause 1.4, Law and Language	The Contract shall be governed by the law of the country or other jurisdiction stated in the Contract Data.	Bidder requests the Employer to provide Jurisdiction of court, since it is not mentioned in the Contract Data.	Refer to Sub-Clause 1.4, Part A-Contract Data, Section-VIII, Part 3 of Bidding Documents for Governing Law. Refer Clause No. 10 of IFB dated 23rd Apr'19.
105.	Part 3; Section VII. General Conditions (GC)	Clause 1.8, Care and Supply of Documents	Care and Supply of Documents Last Paragraph: If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, the Party shall promptly give notice to the other Party of such error or defect.	Bidder understands that, in case of technical errors in the documents resulting in additional time and cost, the Contractor will be compensated for such additional time and cost, as per actuals. Request to kindly confirm.	The condition(s) of Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
106.	Part 3; Section VII. General Conditions (GC)	Clause 1.13, Compliance with Laws	<p>The Contractor shall, in performing the Contract, comply with applicable Laws. Unless otherwise stated in the Particular Conditions:</p> <p>(a) the Employer shall have obtained (or shall obtain) the planning, zoning, building permit or similar permission for the Permanent Works, and any other permissions described in the Specification as having been (or to be) obtained by the Employer; and the Employer shall indemnify and hold the Contractor harmless against and from the consequences of any failure to do so; and</p> <p>(b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the Laws in relation to the execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Employer harmless against and from the consequences of any failure to do so, unless the Contractor is impeded to accomplish these actions and shows evidence of its diligence.</p>	Request employer to provide the status of statutory approvals and clearances required for the execution of the project. Also, it is requested to share the copies of all such approvals obtained by the Employer.	The condition(s) of Bidding Documents shall remain unaltered.
107.	Part 3; Section VII. General Conditions (GC)	Clause 4.15, Access Route	Access Route	In case of any hindrance in the access route due to reasons not attributable to the Contractor, then the Employer has to compensate additional time and cost. Request to change the clause accordingly.	The Condition(s) of the Bidding Documents shall remain unaltered.
108.	Part 3; Section VII. General Conditions (GC)	Clause 4.18, Protection of the Environment	<p>Protection of the Environment</p> <p>The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise .....</p>	Protection of the environment shall be limited to Site premises (ROW) only, as the Contractor cannot be held responsible for Environmental impacts outside the ROW. Request to kindly modify the clause and confirm.	The Condition(s) of the Bidding Documents shall remain unaltered.
109.	Part 3; Section VII. General Conditions (GC)	Clause 4.19, Electricity, Water and Gas	<p>Electricity, Water and Gas</p> <p>The Contractor shall, except as stated below, be responsible for the provision of all power, water and other services .....</p>	Bidder Requests the Employer to kindly arrange sufficient and uninterrupted Grid Power Supply at all Shafts, NATM Main Portal & Adit location.	The Condition(s) of the Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
110.	Part 3; Section VII. General Conditions (GC)	Clause 8.5, Delays Caused by Authority	Delays Caused by Authorities If the following conditions apply, namely: (a) the Contractor has diligently followed the procedures laid down by the relevant legally constituted public authorities in the Country, (b) these authorities delay or disrupt the Contractor's work, and (c) the delay or disruption was Unforeseeable, then this delay or disruption will be considered as a cause of delay under subparagraph (b) of Sub-Clause 8.4 [Extension of Time for Completion].	Bidder requests the Employer to consider Cost Compensation also.	The Condition(s) of the Bidding Documents shall remain unaltered.
111.	Part 3; Section VII. General Conditions (GC)	Clause 12.3, Evaluation	Evaluation	New rate or price shall be appropriate for an item of work if: (iii) this change in quantity directly changes the Cost per unit quantity of this item by more than 1%. Kindly Clarify.	The Condition(s) of the Bidding Documents shall remain unaltered.
112.	Part 3; Section VII. General Conditions (GC)	Clause 13.7, Adjustments for Changes in Legislation	Adjustments for Changes in Legislation	Does changes in rate of taxes, levies, duties, cess etc. or introduction of new ones, fall under Change in Legislation?	The Condition(s) of the Bidding Documents shall remain unaltered.
113.	Part 3; Section VII. General Conditions (GC)	Clause 14.1, The Contract Price	The Contract Price	In case exemption could be availed for the Project, Bidder requests the Employer to provide the procedure to be followed and notifications for the said project, if any.	The Condition(s) of the Bidding Documents shall remain unaltered.
114.	Part 3; Section VII. General Conditions (GC)	Clause 16.2, Termination by Contractor	Termination by Contractor Paragraph: The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contract or otherwise.	In case the contract is terminated by Contractor as per the provisions defined in the contract, the Employer should compensate the Contractor with cost of damages incurred by the Contractor on actual basis, due to the termination of contract. Further, kindly define the words "substantially", "materially" and "economic balance of Contract" Kindly clarify.	The Condition(s) of the Bidding Documents shall remain unaltered.
115.	Part 3; Section VII. General Conditions (GC)	Clause 18.3, Insurance against Injury to Persons and Damage to Property	Insurance against Injury to Persons and Damage to Property	Please consider having limitation for the number of incidents (say 4 nos.). For any further incidences, then the same shall be suitably compensated by the Employer	The Condition(s) of the Bidding Documents shall remain unaltered.
116.	Part 3; Section VIII, Particular Condition (PC), Part A- Contract Data	Sub-Clause 1.1.2.4 & 1.3 (b), Engineer's name and address	Engineer's name and address (To be appointed)	Bidder understands that the Engineer will be appointed on or before the Project Commencement date. Request to kindly confirm.	Bidder's understanding is correct. The Condition(s) of the Bidding Documents shall remain unaltered.
117.	Part 3; Section VIII, Particular Condition (PC), Part A- Contract Data	Sub-Clause 1.1.3.7, Defects Notification Period (DNP)	Defects Notification Period 730 days	Bidder requests the Employer to reduce the Defects Notification Period from 730 days to a maximum of 365 days.	The Condition(s) of the Bidding Documents shall remain unaltered.
118.	Part 3; Section VIII, Particular Condition (PC), Part A- Contract Data	Sub-Clause 2.1, Time for access to, and possession of all parts of, the Site	Right of Access to the Site/Project Location & Layout	Bidder requests the Employer to kindly share i) .kmz file of the Project layout ii) Status of Land Acquisition iii) Clearances for Environment, NGT, Forest, Wildlife, Statutory	The Condition(s) of the Bidding Documents shall remain unaltered.





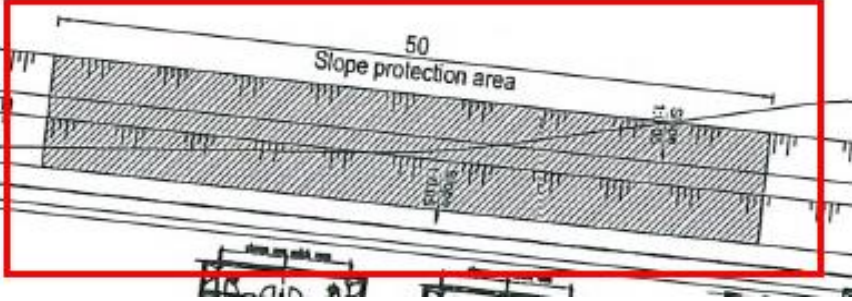
No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				Compliances, etc. iv) Detailed Project Report	
119.	Part 3; Section VIII, Particular Condition (PC), Part A- Contract Data	Sub-Clause 6.5, Normal working hours	Normal working hours From 8:00 AM to 5:00 PM	Bidder requests the Employer to kindly allow the Bidder to decide the working hours based on the Project requirement and completion timelines.	The Condition(s) of the Bidding Documents shall remain unaltered.
120.	Part 3; Section VIII, Particular Condition (PC), Part A- Contract Data	Sub-Clause 8.7, Delay Damages for the Works	Delay damages for the Works 0.05% (zero-point zero five percent) of the Contract Price per day.	0.05% (zero-point zero five percent) of the Contract Price per day as liquidated damages are too stringent. Accordingly, Bidder requests the Employer to review and reduce this to 0.02% ((zero-point zero two percent) of the Contract Price per day	The Condition(s) of the Bidding Documents shall remain unaltered.
121.	Part 3; Section VIII, Particular Condition (PC),	Sub-Clause 8.7 & 8.13, Table: Summary of Milestones	Bonus Entitlement (amount per day of early Achievement ) (Sub-Clause 8.13)	It has been observed that the penalty as fixed for delay in achievement of Milestones is two times that of the bonus amount as fixed for the early completion of the milestones. Accordingly, it is requested to limit the delay penalty for milestones similar to that of the bonus amount payable.  Bidder understands that the Liquidated damages, if any, as deducted for non-achievement of a particular milestones will be returned back to the Contractor, in case the subsequent milestone is achieved in time. Request to kindly confirm.	The Condition is self-explanatory.  The Condition(s) of the Bidding Documents shall remain unaltered.
122.	Part 3; Section VIII, Particular Condition (PC), Part B- Specific Provisions	Sub-Clause 8.13, Accelerated Completion	Bonus Entitlement (amount per day of early Achievement ) (Sub-Clause 8.13)	Bidder understands that the additional time, if any, as granted by the Employer for delays not attributable to the Contractor will be considered towards the extension of Project Milestones the Bonus achievement dates will be modified accordingly. Request to please confirm.	The Condition(s) of the Bidding Documents shall remain unaltered.
123.	Part 3; Section VIII, Particular Condition (PC), Part A- Contract Data	Sub-Clause 14.2, Advance Payment	Advance Payment	Bidder Requests the Engineer to provide Interest free secured material advance equivalent to 90% of Material Purchased value upon submission of proof of receipt of materials at site	The Condition(s) of the Bidding Documents shall remain unaltered.
124.	Part 3; Section VIII, Particular Condition (PC), Part A- Contract Data	Sub-Clause 14.3 ( C ), Percentage of Retention	Percentage of Retention 10% (ten percent)	Deducting 10% retention from each Running Bills will adversely affect the Contractor's working capital at site and accordingly Bidder requests the Engineer to kindly delete the provision of retention.	Refer Addendum No. 3 Item no. 102.
125.	Part 1, Section III, Evaluation and Qualification Criteria	3.2 (d) (iii), Construction Experience in Key Activities	Prime Contractor should be successfully completed "(a) Construction of minimum five thousand (5,000) m rail/metro rail/road tunnel by TBM",	please clarify minimum five thousand meter railroad tunnel by TBM means one tunnel in one contract or minimum cumulative five thousand meter tunnels in one or several contracts is also accepted	Refer to Form EXP-2(b), Bidding Forms, Section-IV, Part 1 of the Bid Documents as per which Works under various contracts can be added to meet the criteria. The Condition(s) of the Bidding Documents shall remain unaltered.
126.	Part 2, Works Requirements, Section VI	Clause 6.2.1 Bidding Forms Bill No. 3.1.1 Item no.301,	These shafts shall be constructed by providing continuous retaining wall with the help of secant piles/ D-wall including capping beam. The retaining walls shall be waterproof.", and	we understand that secant piles or D-walls shall be constructed up to the bottom of the shafts. However, please clarify whether it is possible to design the retaining walls with a combination of secant piles or D-walls and shotcrete lining in case the rock stability is capable to adopt shotcrete support. For the avoidance of doubt, secant piles or D-walls will be adopted up to the rock level, for instance, I 0-1 Sm from the	Refer Addendum no 3 Item no. 46.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
			"Construction of temporary wall by continuous wall method such as secant pile or diaphragm wall (Dwall) and including temporary support system for the complete depth.",	ground level, and shotcrete with rock bolt support will be adopted to the remaining depth in rock up to the bottom of shafts.	
127.	Part 2, Works Requirements Section VI-4.	B. Utility Drawings ii)	Shaft 3, there seems to be an existing building in the Shaft 3 construction area,	please clarify this building will be or already demolished before the handover of the Site that is specified in the Particular Conditions Clause 2.1.	Refer to Clause 8 of Sub-Division 06010 of the GS.
128.	General			Please provide the following drawings for permanent shaft structures for estimation. - General arrangement of reinforcement bar - Reinforcement details	Refer to Addendum No. 2 Item No.1.
129.	Part 1, Section II, BDS	BDS- ITB 20.2 Page 5 of 31	Power of Attorney	Power of Attorney (POA) is required to be attached in both Letter of Technical Bid and Price Bid.  It is our understanding that only one original POA is required to be submitted for the Technical Bid and only the copy of it will be submitted for the Price Bid.  Please confirm if our understanding is correct.	Bidder's understanding is correct. The Condition(s) of the Bidding Documents shall remain unaltered.
130.	Part 1, Section II, BDS	BDS- ITB 4.1, Page 3 of 31		BDS 4.1 3rd paragraph stipulates that "the joint venture (or consortium) shall nominate one person as "Representative" from the Lead Member who shall have the authority to conduct all business for and on behalf of any and all members of the joint venture (or consortium) during the bidding process and in the event that the joint venture (or consortium) is awarded the Contract, during the Contract execution". During the bidding process, in order to prepare for urgent events, can such nominated "representative" be multiple personnel from the Lead member? Or as an alternative, can the one appoint "Representative" appoint sub-agents to act on his behalf during the bidding process? Please clarify.	The Condition(s) of the Bidding Documents shall remain unaltered.
131.	Part 1, Section II, BDS	BDS- ITB 7.1, Page 4 of 31		BDS 7.1 last paragraph stipulates that "The Employer's response will be uploaded on the Employer's webpage no later than twenty-eight (28) days prior to the deadline for submission of Bids, provided that such request is received no later than forty nine (49) days prior to the deadline". Please confirm that the Bidders are still allowed to submit queries after this forty nine (49) days prior to the deadline for submission of Bids, while the Employer does not need to assure that the response would be responded no later than 28 days prior to the deadline for submission, and based on the JICA Standard process, the response would be responded no later than 14 days prior to the deadline for submission.	The Condition(s) of the Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
132.	Part 1, Section II, BDS	BDS- ITB 21.2(a) Page 7 of 31		Regarding the identification of envelopes, in the case of "Envelope No.1" containing both Envelopes No.2 and No.3, should this label be identified as "BID" or "TECHNICAL BID and PRICE BID" or otherwise? Please clarify.	The Condition(s) of the Bidding Documents shall remain unaltered. Envelope No. 1 can be labelled either as "BID" or as "TECHNICAL BID and PRICE BID".
133.	Part 1, Section III, Evaluation and Qualification Criteria	3.2 Criteria Page 15of 31	Exchange Rate for Qualification Criteria	It is stipulated that "For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective year." Our company's fiscal (or financial) year is for the period from April 1 up to March 31. In our case, may we understand that exchange rates applied for the financial information shall be the ones prevailing on March 31 or the nearest business day of each fiscal year?	The Condition(s) of the Bidding Documents shall remain unaltered.
134.	Part 1, Section IV. Bidding Forms,	All Forms	Native Files for each Formats	Bidding Documents we have received from the Employer only includes PDF file for the formats in Section IV Bidding Forms.Please provide native files (ex: word, excel) for the formats in Section IV Bidding Forms for the preparation of Bid.	The Condition(s) of the Bidding Documents shall remain unaltered.
135.	Part 1, Section IV. Bidding Forms,	2.0 Bills of Quantities, 2.1.5 Page 13/159		It is stipulated that "Even when T-1 and E-1 Contractors have the right of access to and temporary possession of the site inside the tunnel, control of access to the tunnel at Adit Portal, Main Tunnel Portal, Shaft-2 and Shaft-3 shall remain with C-2 Contractor. C-2 Contractor shall also be responsible for providing temporary lighting (with a minimum 20 Lux intensity) inside the tunnel and Shafts and working of pump out system in Shaft-2 and Shaft-3 after handing over access to T-1 Contractor or E-1 Contractor or both till Taking Over of the Works. The quoted rates and prices shall be deemed to have included the cost of the items mentioned in this clause." In order to quote providing temporary lighting and pump system after the handover to T-1 or E-1 Contractor in Shaft-2 and Shaft-3. Could we ask you to provide their work schedule?	The condition(s) of Bidding Documents shall remain unaltered.
136.	Part 1, Section IV. Bidding Forms,	2.0 Bills of Quantities, Bill No. 5.0: NATM and Cut & Cover Tunnel Page 72/159, 75/159		In the Bill of Quantities (BoQ) Item no.501 d) and no.509 d), Tunnel Support Pattern, IN, IL and IS strata, is categorized into one item. However, according to "Japanese Standard of Design and Construction for mountain tunnelling" published by JR TT, the tunnel support system of IN, IL and IS is classified differently due to the differences of rock bolt numbers, size of steel rib and thickness of concrete. Therefore, please categorize the tunnel support pattern, IN, IL and IS strata into different BoQ items.	The condition(s) of Bidding Documents shall remain unaltered.
137.	Part 1 Section IV Bidding Forms & Part 2 Section VI-3	4. NATM Drawings ADIT Tunnel TD-JIC-IC1-TDC-B01-UST-NTU-23360000  Item no. 209, Drawings Page 23 of 159	Bill No. 2.2 : At Adit Portal	Item no. 209 mentions that "Slope protection work including shotcrete, rock bolts, concrete in berms & weep holes in accordance with the Specification and the Drawings." However, drawing TD-JIC-IC1-TDC-B01-UST-NTU-23360000 (Refer to below sketch) only shows the location of the above works.	Refer Addendum no 2 Item no 1.

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				 <p>Please provide other drawings such as section, elevation and details. We believe that such design information will be issued as the Addendum of the Bidding Documents soon.</p>	
138.	Part 2 Section VI Bidding Forms	2.7 Work Items, BoQ item 311, 328	BoQ item 311, 328	<p>There is no drawing of the Retaining Wall installed at the site border. Paragraph indicates "Construction of retaining wall with reinforced cement concrete of grade M-35 including excavation, muck disposal, form work, supplying, transporting, placing, compacting &amp; curing excluding cost of reinforcement steel in accordance with the Specification and the Drawings." However, the drawings of retaining wall are not contained in Section VI-3(Drawings). Could we ask you to provide the drawings of retaining wall?</p>	Refer Addendum no 2 Item no 1.
139.	Part 2, Section VI, VI-1 Specification (General Specifications)	04040 Interface, Coordination and Cooperation with Other Parties  Clause 2.15	04040 Interface, Coordination and Cooperation with Other Parties  Clause 2.15	We note the provisions of Clause 2.15 of section 04040 of the General Specifications . We assume that any amounts due under this clause would be considered against the limit specified in Sub-Clause 8.7 of the Particular Conditions of Contract , please confirm .	The condition(s) of Bidding Documents shall remain unaltered.
140.	Part 2 Section VI-1 (GS) Division 01000	Cl. 10 Mandatory Approvals from the concerned Authorities Page 11 of 11	Mandatory Clearances / Approvals / Sanctions	<p>The Works may require mandatory clearance / approval / sanction from the concerned Railway Authorities/ Civil Authorities before they can be undertaken by the Contractor. The responsibility of obtaining necessary sanction / clearance of the concerned authorities before undertaking the work rests with the Contractor. Please provide the list of mandatory clearances / approvals / sanctions required before the undertaking by the Contractor.</p>	The condition(s) of Bidding Documents shall remain unaltered.





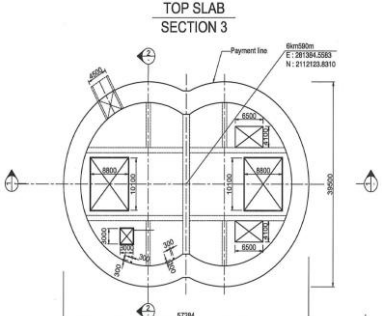
No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
141.	Part 2 Section VI-1 (GS) Division 06040	Cl.8 Borrow Areas and Quarries Page 23 of 51	Clause 8 of Division 06040	<p>It is stipulated that "1) It shall be the responsibility of the Contractor to arrange for borrow areas (for fill material) and quarry sites (for ballast, aggregate and rock material) using his own resources. The Contractor shall be responsible for carrying out his own investigations to verify the availability, sufficiency, quality and quantity of materials from such sources. The Contractor may also arrange any additional borrow areas and quarry sites as required by him, all at his own discretion. No claim whatsoever shall be entertained by the Employer in this regard. 5) Borrow areas, quarry sites and the installation of rock crushers shall not be permitted within the ROW."</p> <p>Clause 8 of Division 06040 "Borrow Areas and Quarries" stipulates that they are not allowed inside ROW. Clause 8 "Stockpile Areas" stipulates that stockpiles are allowed inside ROW. Please provide further clarifications on the difference</p>	The condition(s) of Bidding Documents shall remain unaltered.
142.	Part 2 Section VI-1 (GS) Division 08020  Part 2 Section VI-1 08000-1	Cl.2.1 Site SHE Management Plan Page 5 of 16 ,  Cl.4.1.1 Page 35 of 185	SHE Management Plan	<p>It is stipulated that "The SHE Management Plan shall have NONO from the Engineer. In addition, this plan shall be made in accordance with the latest amendments/revisions/clauses as applicable, as per The Maharashtra BOCW Rules 2007; The Gujarat BOCW Act 2003; ISO 45001:2018; ISO 14001: 2015; Bureau of Indian Standard Specifications; National Building Code and BS 6164: 2011, whichever is more stringent. The Contractor's SHE Management Plan shall address the following"</p> <p>"The following standards whichever is more stringent shall be applicable: 1) The Maharashtra &amp; The Gujarat State BOCW Acts and Rules framed there under;"</p> <p>Under this and other clauses, Gujarat BOCW Act and legislations are referred. Please confirm that The Gujarat BOCW Act and other legislations and such referred elsewhere in the specifications do not apply for this Contract</p>	It is confirmed that The Gujarat BOCW Act and related legislations and such referred elsewhere in the specifications do not apply for this Contract.
143.	Part 2 Section VI-1 General Specifications 04060	CL. 1.1 (m)(i) Page 38 of 100	04060 Facilities for Employer's/Engineer's Personnel 1. Site Offices	<p>It is stipulated that "CL. 1.1 (m)(i) Electricity, gas and potable water supplies: including payment for all connections and service charges;"</p> <p>Please provide or indicate the location of available connection points for bidder to estimate the cost.</p> <p>We believe that such design information will be issued as the Addendum of the Bidding Documents soon.</p>	The condition(s) of Bidding Documents shall remain unaltered.
144.	Part 2 Section VI-1 General Specifications 04060	CL. 2.8 Page 25 of 100	04040 Interface, Coordination and Cooperation with Other Parties 2. Responsibilities of the Contractor	For the development of Works Execution Programme, please provide the current project schedule of the interfacing Packages especially interfacing point with C-1 package. We believe that such information	This information will be shared after award of Contract.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				should be reasonably disclosed to avoid miscommunication regarding schedule constraint if any.	
145.	Part 2 Section VI-1 General Specifications 06040	CL. 6.1 Page 22 of 51	06040 Contractor's Temporary Facilities Labour Accommodation Camps	It is stipulated that "CL. 6.1 The Contractor shall supply, equip and maintain facilities as necessary for the living accommodation, feeding and welfare of its employees" Construction of Accommodation for the Contractor's employees is not required if it is not necessary in the Bidder's opinion. Please confirm if our understanding is correct	The condition(s) of Bidding Documents shall remain unaltered.
146.	Part 2 Section VI-1 General Specifications 06060	CL. 2.2.1 Page 35 of 51	06060 Utilities and Facilities 2.2 Charted Utility	It is stipulated that "CL. 2.2.1 The Charted Utilities identified by the Employer are included in Utility Management Report, enclosed in Reference Information/Report."  Attachment 4A of Reference Information/Report shows a list of underground utilities. Please provide us a list of above ground utilities as well.  We believe that such design information will be issued as the Addendum of the Bidding Documents soon.	Reference Information/Reports as available has been provided in Bidding Documents.
147.	Part 2 Section VI-1 General Specifications Division 01000 : Scope of Works	Schematic Diagram of Tunnel (Package C-2) & (c) (ii) Page 3 of 11 & 4 of 11	.	Shaft 3 centreline chainage was mentioned as 16km250m in Schematic Diagram of Tunnel (Package C-2) and 16km210m in Clause (c) (ii)  Please clarify the discrepancy for the chainage of Shaft 3 centreline.	Refer to Addendum No. 3 Item No. 4 & 5.
148.	Part 2 Section VI-1 General Specifications Division 04000 : Works Administration	Note 4 Page 71 of 100	Drawing TD-JIC-IC1-TDC-B01-UST-NTU-00240000	For Milestone 4 to be considered complete C-2 Contractor shall complete all the works described in the Drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-00220000. Thereafter, the area described in drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-00240000 shall be handed over to C-3 Contractor for carrying out the works pertaining to C-3 contract.  Please provide the missing drawing namely as <i>TD-JIC-IC1-TDC-B01-UST-NTU-00240000</i> mentioned in above said document.  We believe that such design information will be issued as the Addendum of the Bidding Documents soon.	Refer to Addendum No. 3 Item No. 21
149.	Part 2 Section VI-1 General Specifications 08020	CL. 1.1, Safety and health Page 4 of 16	Safety and health	It is stipulated that "It is to be noted that the Employer (or the Engineer on its behalf) is entitled to amend safety and health related terms and conditions and the same shall be binding on the Contractor to implement without any financial claim from the Contractor to the Employer."  Please confirm that CL.13 of the Conditions of Contract prevails above this clause according to Conditions of Contract CL.1.5 "Priority of Document".	The condition(s) of Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
150.	Section VI-1 Specification (General Specification)	06040 Contractor`s Temporary Facilities	06040 Contractor`s Temporary Facilities 16. Utilities for Temporary Facilities	It is stipulated that "Clause 16.2 Water Supply 1) a) Industrial water supply system states "For construction use the water quality shall meet the quality requirements in the Works Requirements. " Could we use the commercial industrial water for construction use by "obtaining authorities" approvals?	The condition(s) of Bidding Documents shall remain unaltered.
151.	Part 2 Section VI-1 General Specifications 06000 Site Management	Clause 3.2 Page 20-21 of 51		It is stipulated that "The Contractor's Site offices and facilities shall be provided within or in the vicinity of the work site, with all necessary facilities including furniture, office equipment, office supplies, utility services, sanitary system and vehicle parking. Division 4000 of the General Specification indicates that the Engineer will have one (1) Sub-Site Office and four (4) Site Huts established for the C-2 Contract. The Contractor shall establish the same number of Sub-Site Office and Site Huts in close proximity to the Engineer's Offices." Please confirm the Bidder's understanding of the wording "the Contractor shall establish the same number of Sub-Site Office and Site Huts". Bidder's understanding: "The Contractor shall establish one (1) Sub-Site Office and four (4) Site Huts for the Contractor use. The dimensions and facilities shall be considered by the Contractor".	The condition(s) of Bidding Documents shall remain unaltered.
152.	Section VI-1 Specification (General Specification)  Section VI-2 Specification (Technical Specification)	06040 Contractor`s Temporary Facilities	06040 Contractor`s Temporary Facilities 16. Utilities for Temporary Facilities  3.2 Construction Dewatering	As for construction dewatering, there is no mention about discharge point of construction dewatering system. Therefore, please instruct discharge point of each site, such as Shaft-2, Shaft-3, Adit and Portal.	Discharge point for construction dewatering system shall be proposed by the Contractor for Engineer's approval.
153.	Part 2 Section VI-2 Technical Specifications	2. Technical Specification for Design of Temporary Works Page 6 of 199		Several sentences indicate the design of temporary works, including design philosophy, assumptions, parameters, calculations and so on. However, does it require approval from the chartered engineers for the submission of such design reports? Moreover, we understand such design reports need to be submitted before construction, not in the technical proposal during bidding stage. We kindly ask for your confirmation	Please refer Addendum No 3 Item No 66,72,73,74 and 75. For the second part Bidder's understanding is correct.
154.	Part 2 Section VI-2 Technical Specifications	Clause 219 Page 179 of 199	Metaled Access Roads	It is stipulated that "Measurement for payment of this item shall be in sqm of area of the black top surface of metaled access road as shown on the Drawings or established at the Site by the Engineer. The payment for the item shall be made at Unit Rate per sqm, entered in the Priced Bill of Quantities. This item includes cost of all the items for construction of road complete in all respects as shown in the Drawings."  Please clarify the definition of "the black top surface".	Refer Addendum No. 2 Item No. 1 and Addendum No 3 Item No. 90.

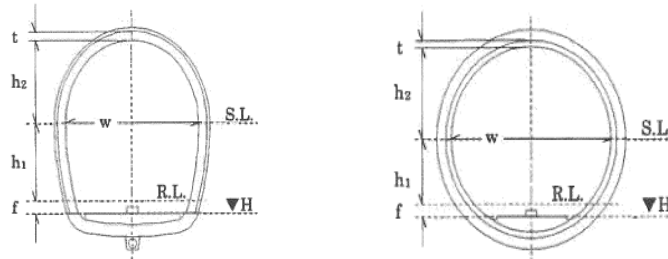
No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
155.	Part 2 Section VI-2 Technical Specifications	Clause 301 Page 179 of 199	Excavation of Shaft	<p>It is stipulated that "Measurement for payment for excavation in all kinds of strata will be of the in-situ volume of material excavated from the levels recorded prior to any excavation work and the lines and grades (up to the pay line) shown on the Drawings or established at the Site by the Engineer. The bottom level of excavation shall be taken as the bottom of levelling concrete as shown on the Drawings. The area of excavation shall be taken as per the payment line shown in the Drawings. No payment shall be made for excavation carried out beyond payment line." Please confirm "the payment line" shown in the drawings for construction of Shaft are payment limit for excavation only. Typical sketch below is extracted from dwg no. TD-JIC-IC1-TDC-B01-UST-NTU-15010000</p> 	Refer Addendum No. 2 Item No. 1
156.	Part 2 Section VI-2 Technical Specifications	CL. 304 (e) (i) Page 181 of 199	Miscellaneous Works - Railing (at openings for maintenance)	<p>It is stipulated that "Measurement for payment for this item shall be in sets. All the openings for the maintenance at various slab levels as shown on the Drawings, complete in all respect, shall comprise one set. The payment for the item shall be made at Unit Rate per set, entered in the Priced Bill of Quantities."</p> <p>Discrepancy between Measurement Method and BoQ.</p> <p>Measurement Method: "All the openings for the maintenance at various slab levels as shown on the Drawings, complete in all respect, shall comprise one set".</p> <p>BoQ: Part 1, Section IV, BoQ item 304 (e) (i) "Opening for maintenance at every slab level".</p> <p>Please clarify which one is correct "Measurement Method" or "BoQ". Otherwise, please give us more explanations for the measurement method.</p>	Refer Addendum No. 3 of Item No. 92.





No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
157.	Part 2 Section VI-2 Technical Specifications	CL. 304 (e) (i) Page 181 of 199	Miscellaneous Works - Railing (at openings for ventilation)	<p>It is stipulated that "All openings for ventilation at various slab levels shall comprise one set. The payment for the item shall be made at Unit Rate per set, entered in the Priced Bill of Quantities."</p> <p>Discrepancy between Measurement Method and BoQ.</p> <p>Measurement Method: "All openings for ventilation at various slab levels shall comprise one set."</p> <p>BoQ: Part 1, Section IV, BoQ item 304 (e) (ii) "Opening for ventilation at every slab level".</p> <p>Please clarify which one is correct "Measurement Method" or "BoQ". Otherwise, please give us more explanations for the measurement method.</p>	Refer Addendum No. 3 of Item No. 92.
158.	Part 2 Section VI-2 Technical Specifications	CL. 3.3 Page 10 of 199	Disposal of muck	<p>It is stipulated that "The excavated material that can be used in the Works, shall be temporarily stockpiled, if required, in a dump site as proposed by the contractor and agreed by the Engineer and the concerned regulating authorities.</p> <p>Any royalty, if to be paid to local authorities on the excavated material, is to be borne by the Contractor at his own cost irrespective of whether the excavated material is used for the Works or being used for any other purpose or being disposed of as surplus."</p> <p>For payment of royalty, please list up the local authorities who the royalty have to be paid, and their applicable rates for each area at :</p> <ol style="list-style-type: none"> <li>(1) Tunnel Portal</li> <li>(2) Adit Portal</li> <li>(3) Shaft 2</li> <li>(4) Shaft 3</li> </ol>	The condition(s) of Bidding Documents shall remain unaltered.
159.	Part 2 Section VI-2 Technical Specifications	CL. 5.14 (1) Page 96 of 199	Waterproofing of Tunnel (1) General	<p>It is stipulated that "Waterproofing of the tunnel shall be carried out by providing waterproofing membrane manufactured from Ethylene Vinyl Acetate(EVA) with isolation mat weighing 300g/cm<sup>2</sup> over shotcrete as shown in the Drawings. "</p> <p>The Specification states isolation mat with density 300g/cm<sup>2</sup>. NATM dwgs for Main Tunnel TD-JIC-IC1-TDC-BD01-UST-NTU-20180000 shows 300g/m<sup>2</sup>"</p> <p>Please confirm if 300g/m<sup>2</sup> in drawing is correct?</p>	Refer to Addendum No. 3, Item No. 44

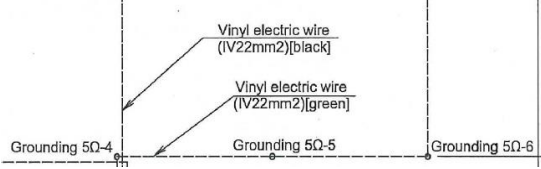
No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				<p style="text-align: center;">Section 1-1 S=1:20</p>	
160.	Part 2 Section VI-2 Technical Specifications	CL. 7.3 (17) Page 153 of 199	Inspection, Tests and Standards of Acceptance	<p>It is stipulated that "(b) The Contractor shall set up a field laboratory with necessary equipment for testing of all materials, finished products to be used in the construction. "</p> <p>Please confirm that the requirement on "testing of all materials, finished products to be used in the construction" applies only for RC concrete as per this clause number.</p>	The condition(s) of Bidding Documents shall remain unaltered.
161.	Section VI-2 Specification (Technical Specification)	CL.6.3.1 Page 111 of 199	Construction of Shaft 2 & 3 and Ventilation Buildings	<p>It is stipulated that "After the work of the tunnel is over and TBMs have been removed from Temporary shafts, the work of construction of Shafts 2 &amp; 3 shall be taken up in accordance with the Drawings. The Contractor shall submit method statement for construction of shafts to obtain approval from the Engineer. The annular space, if any, between the outer side of side walls of the shafts and temporary shafts shall be filled with M-20 concrete by the Contractor. The cost of M-20 concrete shall be deemed to be included in the rate of the RCC of side walls of the shafts and no extra payment shall be made for filling concrete. After construction of shafts , ventilation buildings shall be constructed on top of shafts 2&amp;3 in accordance with the Drawings as per noticed Method Statement."</p> <p>In order to minimize the construction period, can the work of construction of the shaft start before the work of the tunnel is over?</p>	Refer Addendum no 3 Item no 78
162.	Section VI-2 Specification (Technical Specification)	CL.7.3 (10)Page 146 of 199	Transporting , Placing and Compaction of Concrete(c) PlacingItem iv)	<p>It is stipulated that "Fresh concrete shall not be placed against concrete which has been in a position for more than 30 minutes unless a proper construction joint is formed.". This timing is particularly short and not in line with industry norm. Concrete setting time may be adjusted by adding retarder, hence fresh concrete could be placed against concrete which has been in a position for more than 30 minutes without forming the construction joint. May we place the fresh concrete by adjusting the setting time to which concrete has been in a position over 30 minutes on this point?</p>	Refer to Addendum No. 3, item No. 48

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
163.	Section VI-2 Specification (Technical Specification)	CL.7.3 (10) Page 146 of 199	Transporting, Placing and Compaction of Concrete (c) Placing Item v)	It is stipulated that "Except where otherwise agreed by the Engineer, the concrete shall be deposited in horizontal layers to a compacted depth of not more than 300 mm." According to Japanese standard, for instance Concrete Standard Specification, Construction version 2017 p118, and from the experienced contractor's view, a compacted depth of concrete deposited in horizontal layers could be 400mm to 500mm. May we plan the concrete placing in such manner?	The condition(s) of Bidding Documents shall remain unaltered.
164.	Section VI-2 Specification (Technical Specification)		Appendix 4. Tolerances of finished concrete structures	<p>In table 1, Tunnel drawing indicates the "H" as structure level. Does this "H" indicate either top of track bed concrete or top of backfill concrete?</p> 	Refer to Addendum No. 3, Item No. 63
165.	Section VI-2 Specification (Technical Specification)	Cl.4.10 Page 41 of 199	Tunnel Survey	<p>Bidding Documents Item (3) Wriggle survey stipulates "Wriggle survey shall be carried out after the breakthrough of TBMs to check the intrados of built tunnel with respect to design tunnel alignment. Based on the report of wriggle survey the Contractor shall propose final horizontal and vertical alignment of the tunnel ensuring no infringement to SOD to obtain approval from the Engineer. After this, laying of backfilling concrete and track bed concrete shall be undertaken."</p> <p>Shall the wriggle survey be carried out either after breakthrough of three TBMs or after breakthrough each TBMs?</p>	Refer Addendum No. 3 Item No. 83
166.	Section VI-2 Specification (Technical Specification)	Cl.4.10 Page 41 of 199	Tunnel Survey	<p>Bidding Documents Item (3) Wriggle survey stipulates "Wriggle survey shall be carried out after the breakthrough of TBMs to check the intrados of built tunnel with respect to design tunnel alignment. Based on the report of wriggle survey the Contractor shall propose final horizontal and vertical alignment of the tunnel ensuring no infringement to SOD to obtain approval from the Engineer. After this, laying of backfilling concrete and track bed concrete shall be undertaken."</p> <p>In terms of back fill concrete, can the Contractor place back fill concrete before breakthrough of TBMs by assuring the given tolerance in order to shorten the construction period?</p>	Refer Addendum no 3 Item no 83



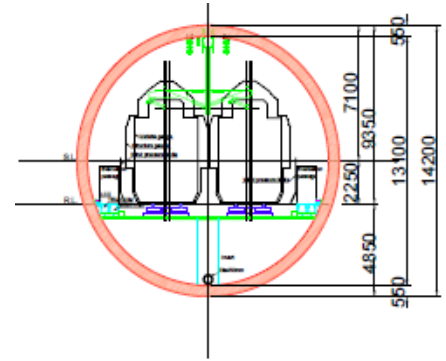
No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
167.	Section VI-2 Specification (Technical Specification)	CL.4.21 Page 55 of 199	Breakthrough of TBM-1 and its removal	<p>It is stipulated that "TBM-1 shall breakthrough in shaft 1 (to be constructed by C-1 Contractor). The soft eye in shaft-1 shall be provided by the C-1 Contractor as per the requirement of the C-2 Contractor. All other preparatory works for receiving and removal of TBM-1 shall be carried out by the C-2 Contractor. The Contractor shall submit method statement for carrying out preparatory works for receiving the TBM and for removal of the same to obtain approval from the Engineer."</p> <p>Please provide</p> <p>a) structure and arrangement of reinforcement drawing for Shaft-1 and</p> <p>b) Construction schedule for Shaft-1 and</p> <p>c) related information such as milestone and hand over date to study what kinds of preparatory works may be necessary.</p> <p>We believe that the such design information will be issued as the Addendum of the Bidding Documents soon.</p>	(a) & (b) the arrangement of reinforcement for shaft 1 and construction schedule will be provided after award of Contract.(c) refer Addendum no 3 Item no 15 and 16.
168.	Part 2 Section VI-2 Technical Specifications	CL. 4.18 (7), (d) Page 49 of 199	Ground Movement	<p>For our study to prepare the construction method, please provide the technical detail how the TBM ground movement specified in the Bidding Document is calculated and designed.</p>	Only limiting value of ground movement has been specified in TS from the point of view of functional requirement. The Contractor shall adhere to the limiting value during execution of the Works.
169.	Part 2 Section VI-3 Drawings 2. TBM Drawings TD-JIC-IC1-TDC-B01-UST-NTU-	Page 54 of 182 - 10490000 Page 87 of 182 - 10820000	Dwg 10490000 - Note 3  Dwg 10820000- Note 4	<p>Dwg 10490000 - Note 3 Handhole size and dimensions are as shown TD-JIC-IC1-TDC-B01-UST-NTU-10820000 to 10850000.</p> <p>Dwg 10820000- Note 4 The contractor shall provide cover for hand hole.</p> <p>We could not find details of cover for hand hole in Tender drawings. Please provide details including material type and fixing details.</p> <p>We believe that such design information will be issued as the Addendum of the Bidding Documents soon.</p>	Refer Addendum No 2 Item No 1 and Addendum No 3 Item No. 40 and 41.
170.	Part 2 Section VI-3 Drawings 6. Track Bed Drawings TD-JIC-C16-TDC-B01-TRW-NTU-	Page 29 of 70 - 30230000 Page 30 of 70 - 30250000	6. Track Bed Drawings	<p>Drawing "TD-JIC-C16-TDC-B01-TRW-NTU-30240000" is not found in Tender Drawings</p> <p>Please provide missing drawing "TD-JIC-C16-TDC-B01-TRW-NTU-30240000"</p> <p>We believe that such design information will be issued as the Addendum of the Bidding Documents soon.</p>	Refer Addendum No. 3 Item No. 131.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply																			
171.	Part 2 Section VI-3 Drawings 2. TBM Drawings TD-JIC-IC1-TDC-B01-UST-NTU-	Page 113 of 182 - 15210000 Page 92 of 182 - 10870000 Page 111 of 182 - 15190000	<p>Grounding Earth Cables 15210000 -</p> <div data-bbox="943 394 1397 468" style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">Japanese Industrial Standard Cable (CV, CVT, CVQ) : JIS C 3605</p> </div> <p>10870000 -</p> <table border="1" data-bbox="931 579 1397 695"> <tr> <td rowspan="2">Earth wire</td> <td>Routing wire</td> <td colspan="3">Mild copper stranded wire (22 mm<sup>2</sup>)</td> </tr> <tr> <td>Lead Wire</td> <td colspan="3">600 V vinyl electric wire (1V)</td> </tr> <tr> <td></td> <td></td> <td>22mm<sup>2</sup> and 100mm<sup>2</sup></td> <td>22mm<sup>2</sup> and 100mm<sup>2</sup></td> <td>22mm<sup>2</sup></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">[Green]</td> <td style="text-align: center;">[Black]</td> <td style="text-align: center;">[White]</td> </tr> </table> <p>15190000 -</p> 	Earth wire	Routing wire	Mild copper stranded wire (22 mm <sup>2</sup> )			Lead Wire	600 V vinyl electric wire (1V)					22mm <sup>2</sup> and 100mm <sup>2</sup>	22mm <sup>2</sup> and 100mm <sup>2</sup>	22mm <sup>2</sup>			[Green]	[Black]	[White]	<p>We note that the Grounding Earth Cables specified (e.g. Type IV) in the Tender Drawings are as per Japanese Standard.</p> <p>Please confirm if we can use local cables of equivalent or higher standards?</p>	Refer to Addendum No. 2 Item No. 1.
Earth wire	Routing wire	Mild copper stranded wire (22 mm <sup>2</sup> )																						
	Lead Wire	600 V vinyl electric wire (1V)																						
		22mm <sup>2</sup> and 100mm <sup>2</sup>	22mm <sup>2</sup> and 100mm <sup>2</sup>	22mm <sup>2</sup>																				
		[Green]	[Black]	[White]																				
172.	Section VI-3 ( Drawings)2.TBM DRAWINGS			TBM drawing contains the structure of shaft-2 and shaft-3, however, there is no arrangement of reinforcement for shaft structure. It would be greatly appreciated if you provide the drawings of the arrangement of reinforcement for shaft structure. We believe that such design information will be issued as the Addendum of the Bidding Documents soon.	Refer to Addendum No. 2 Item No. 1																			
173.	Section VI-3 (Drawings) 1.GENERAL DRAWINGS		SCHEMATIC DIAGRAM OF EQUIPMENT ROOMS Drawing No. NTU-00030000	The equipment room is planned both the right and left in the same cross section at two locations, 1km630m and 13km590 m. However, the segment structural drawing of this location is not shown, hence please provide both the structural drawing and developed view drawing of the segment.	Refer to Addendum No. 2 Item No. 1																			
174.	Section VI-3 (Drawings) 2.TBM DRAWINGS		GENERAL ARRANGEMENT OF STANDARD SEGMENTS(RC-1)(2)(A0 TYPE SEGMENT) Drawing No. NTU-10070000	Is RADIAL JOINT (THE ONE PASS JOINT) considering the equivalent of cone connector in Japan? Is it confirmed whether or not cone connector can be supplied from Japan in terms of the proprietary rights?	Refer Sub-Clause 4.7(13) of Technical Specifications. The condition(s) of Bidding Documents shall remain unaltered.																			
175.	Section VI-3 (Drawings) 2.TBM DRAWINGS		GENERAL ARRANGEMENT OF SEGMENTS (RC-1)(1) (DEVELOPED VIEW INTRADOS) Drawing No. NTU-10140000	Does the two types of NON-RETURN VALVE and RESIN PLUG shown in the GROUT SOCKET (non-through hole) be installed only when backfilling or grout injections are performed from the GROUT SOCKET by drilling the back of the segments? (NON-RETURN VALVE is not considered necessary unless it is penetrated, and if it is placed in advance, it will be removed at the time of drilling of the segments.)	The condition(s) of Bidding Documents shall remain unaltered.																			



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
176.	Section VI-3 (Drawings) 2.TBM DRAWINGS		STEEL SEGMENT FOR OPENING OF EQUIPMENT ROOM (TYPE A)(1) Drawing No. NTU-10150000	RADIAL JOINT(THE ONE PASS JOINT) is to be fastened while sliding the segment pieces axially in Tunnelling during assembly of the segment. In the HYBRID GASKET, since a GASKET has a thickness of 16 mm with respect to a sealing groove depth of 8 mm is collapsed and fastened to 8 mm, which is a half of the sealing groove depth, it is assumed that waterproofing is not ensured due to peeling or damages of the GASKET. Therefore, if a failure is confirmed by tests and construction (assembly performance test, etc.), can a water-expandable sealing material used in Japan be changed (subject to design change)?	The condition(s) of Bidding Documents shall remain unaltered.
177.	Section VI-3 (Drawings) 2.TBM DRAWINGS		STEEL SEGMENT FOR OPENING OF EQUIPMENT ROOM (TYPE A)(1) Drawing No. NTU-10310000	Similar to No. 45 Query, the EQUIPMENT ROOMS of A type or Type is planned for the right and left in the same cross section at two places about 1 km 630 m and 13 km 590 m. However, since the segmental structural drawing of this place is not present, please present it together with the developed drawing. Please enlighten us on the specifics of the EQUIPMENT ROOM (TYPE B).	Refer to Addendum No. 2 Item No. 1
178.	Section VI-3 (Drawings) 2.TBM DRAWINGS		Drawing No. NTU-10540000 Drawing No. NTU-10570000	Please show the structural diagram of end side of the equipment room and joint part between main tunnel and equipment room.  We believe that the such design information will be issued as the Addendum of the Bidding Documents soon.	Refer to Addendum No. 2 Item No. 1
179.	Section VI-3 (Drawings) 2.TBM DRAWINGS		DETALE OF STRUCTURE OF CONNECTION FOR DROP ARM(FOR 0km774m to 0km804m)(3) Drawing No. NTU-10620000	• DETALED DRAWING OF BOLT SOCKET LAYOUT: Since the arrangement of the M24 anchors of the PATTERN A'AND PATTERN B' is dense (45NOS), the adhering force at the time of demolding the mould is increased, and there is a risk that the RC segments will be damaged by the impact caused by the excessive force acting at the time of demoulding. Can we reduce the number a little more?	The condition(s) of Bidding Documents shall remain unaltered.
180.	Section VI-3 ( Drawings)2.TBM DRAWINGS		GENERAL ARRANGEMENT FOR PROTECTION OF TUNNEL LINING IN SHAFT-2, 3 Drawing No. NTU-10780000 Drawing No. NTU-10790000	According to these drawings, it can be understood TBM launches before construction of the shaft side wall and after construction of entrance concrete. In order to launch TBMs much earlier, is it possible to construct entrance concrete outside of shaft? This is because it can gain more space for TBM assembly and setting of reaction flame. It would be greatly appreciated if you could explain the details.	Yes. Entrance concrete can be constructed outside of shaft.

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
181.	Part 2 Section VI-4 Reference Information/Reports 6. Special Crossings	Attachment 6A Pages 8 and 9	6. Special Crossings 6A. Drawings	<p>Reference information Page 8 of 9 - Cross Section of the Central Railway Page 9 of 9 - Cross Section of the Underpass Structure Both drawings show Tunnel ID : 13.10m</p> <p>Discrepancy between TBM Drawing and Reference information. TBM Drawing Tunnel ID :12.10m Reference Information Tunnel ID 13.10m</p>  <p>Please clarify whether the Reference Information Drawing will be updated to show Tunnel ID of 12.10m?</p>	Refer to Addendum No. 3 Item No. 64.
182.	Part 3 Section VIII Particular Conditions (PC) Part A-Contract Data	Sub-Clause.14.5, Plant and Materials Page 7 of 33	Plant and Materials	Please confirm that the steel reinforcements used for tunnel segments will be paid when the material arrives at the segment factory. In addition, since the Contractor shall pay for multiple activities, such as set up of the batching plant, at the initial stage of the Project, please also consider adding another item for payment as per "completion of Tunnel Segment Factory"	The Condition(s) of the Bidding Documents shall remain unaltered.
183.	Part 3 Section VIII Particular Conditions, Part A Contract Data,	Sub-Clause 1.1.2.4 & 1.3 (b), Engineer's name and address Page 5 of 33	Engineer's name and address	Please confirm that the Engineer will be appointed before the issuance of the Letter of Acceptance.	The Engineer's name and address will be notified to the Contractor by the Commencement Date.
184.	Part 3 Section VIII Particular Conditions, Part A Contract Data,	Sub-Clause 2.1, Time for Access to, and possession of all parts of, the site Page 6 of 33	Time for Access to, and possession of all parts of , the site	Please explain why most locations cannot be handed over on the first day of commencement date. Please confirm that the contractor has a right to claim the extension of time and its cost in case of delay of these hand over schedules.	The Condition(s) of the Bidding Documents shall remain unaltered. Refer Sub-Clause 2.1, Part A-Contract Data, Section-VIII, Part 3 of Bidding Documents.
185.	Part 3 Section VIII Particular Conditions, Part A Contract Data,	Sub-Clause. 3.1 (B)(ii), Engineer's Duties and Authority Page 6 of 33	Engineer's Duties and Authority	For the instruction of Variation, the percentage of increase of the Accepted Contract Amount which is as an exception to obtain the approval from the Employer, is not specified in this contract data. However, in the contract of P2 package, the percentage is specified as 3%. Please clarify why this package is with a different condition.	The Condition(s) of the Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
186.	Part 3, Section VIII Particular Conditions, Part A Contract Data,	Sub-Clause 1.1.3.3, Time for Completion Page 6 of 33	Time for Completion sub-clause 1.1.3.3	Based on our experiences and major international TBM project's past work records of similar works, the schedule seems to be extremely short and unrealistic. Moreover, you have set further constraints in the forms of handing over dates for shafts areas and key dates to other contractors that would further impact the schedule for completion. In order to study if the Contractor can really complete within this prescribed period, please provide detailed breakdown of how the planned duration for each component of the works have been aggregated to this short time for completion.	Refer Addendum No 3 Item No 107.
187.	Part 3, Section VIII Particular Conditions, Part A Contract Data,	Sub-Clause 1.1.3.7 Defects Notification Period Page 5 of 33	Defects Notification Period	Please consider to be in line with the Defects Notification Period for the Package P-2 (365 days), and please clarify if there is any reason why the Defects Notification Period of each Package is inconsistent.	The Condition(s) of the Bidding Documents shall remain unaltered.
188.	Part 3 Section VIII Particular Conditions, Part A Contract Data,	Sub-Clause 8.7 Delay damages for the Works Page 6 of 33	Delay damages for the Works	Please consider to be in line with the "Delay damages for the Works" for the Package C-4 (0.01% (zero-point zero one percent) of the Contract Price per day), and please clarify if there is any reason why the "Delay damages for the Works" of each Package is inconsistent.	The Condition(s) of the Bidding Documents shall remain unaltered.
189.	Part 3 Section VIII Particular Conditions, Part A Contract Data,	Sub-Clause 8.7 Delay damages for the Works Page 6 of 33	Maximum amount of delay damages	Please consider to be in line with the "Maximum amount of delay damages" for the Package C-4 (2% (two percent) of the Accepted Contract Price), and please clarify if there is any reason why the "Maximum amount of delay damages" of each Package is inconsistent.	The Condition(s) of the Bidding Documents shall remain unaltered.
190.	Part 3, Section VIII, Particular Conditions Part A Contract Data  Part 3, Section IX, Annex to the Particular Conditions – Contract Forms	Sub-Clause 4.2 Performance Security  Performance Security Form	CL. 4.2 Performance Security  Performance Security Form	PC Part A CL. 4.2 stipulates the amount of the Performance Security as 5% (five percent) of the Accepted Contract Amount and in the same currencies of the Accepted Contract Amount. Meanwhile, footnote 1 of Performance Security Forms (pages 26 of 33 and 28 of 33) clarifies the amount of the Performance Security as an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums. Please clarify whether the Performance Security amount is (1) 5% x [Accepted Contract Amount], or (2) 5% x [Accepted Contract Amount, less Provisional Sums].	Refer Addendum No. 3 Item No. 98.
191.	Part 3 Section VIII, Particular Conditions, Part B Specific Provisions,	Sub-Clause 8.13, Accelerated Completion Page 14 of 33	Accelerated Completion	It is stipulated that "For the purposes of calculating the bonus payment, the Time for Completion of the Milestones stated in the Contract Data is fixed and no adjustment of this time by reason of granting an Extension of the Time (EoT) for Completion will be allowed" Please consider to apply the adjustment of the Time for Completion of the Milestones based on the updated baseline schedule in the case if EoT which is not related to the Contractor's fault is granted.	The Condition(s) of the Bidding Documents shall remain unaltered.
192.	Part 3, Section VIII, Particular Conditions Part B Specific Provisions  Part 3, Section IX, Annex to	CL.1.5 Priority of Documents  Contract Agreement Form	CL.1.5 Priority of Documents  Contract Agreement Form	Footnote 1 of the Contract Agreement Form implies that replies to the Bidder's queries is to be included in item "Any other documents forming part of the Contract" which is PC Part B CL. 1.5 document (p) having the least priority. Therefore, please conform that any crucial replies to the Bidder's queries shall be reflected in documents "(d) the Record of Meeting on Contract Negotiation" and/or "(d) the Addenda".	The Condition(s) of the Bidding Documents shall remain unaltered.

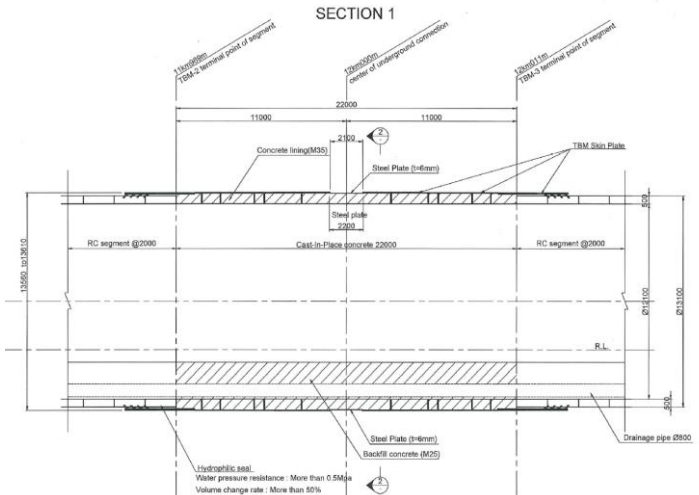


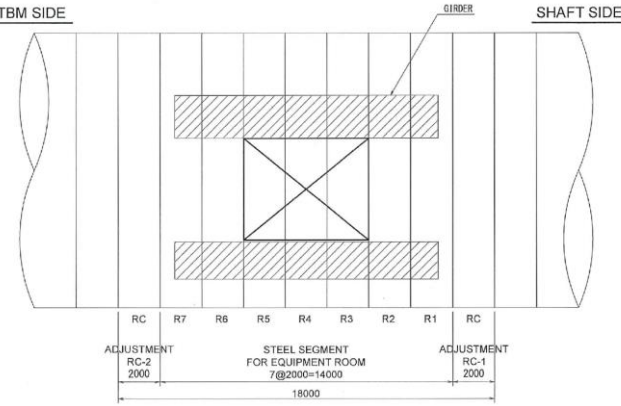


No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
	the Particular Conditions – Contract Forms				
193.	Part 3, Section VIII, Particular Conditions Part B	CL.1.5 Priority of Documents	CL.1.5 Priority of Documents	Please clarify whether the final Contract Bill of Quantities are to be included in document "(c) the Record of Meeting on Contract Negotiation", "(e) the Price Bid" or "(p) Any other documents forming part of the Contract, or otherwise.	The Condition(s) of the Bidding Documents shall remain unaltered.
194.	Part 3, Section IX, Annex to the Particular Conditions – Contract Forms	Performance Security Form	Performance Security Form	In page 29 of 33, last sentence of the main context "15(a) is hereby excluded." seems to be a typographic error which should match the wordings for the similar in page 27 of 33. Please clarify.	Refer Addendum No. 3 Item No. 103.
195.	ATTACHMENT8 INFOMATION DRAWINGS A.TBM		GENERAL ARRANGEMENTOF ARRIVING ENTRANCE(FOR INFORMATION ONLY) Drawing No. NTU-40080000	1. Is the No. 1 segment on the origin side considered to be 0km772m669? 2. The RC SEGMENT including the RC TRANSITIONS SEGMENT has been assembled to the shaft body of the SHAFT1. Are TBMs planned to be pulled out to the SHAFT? 3. Is the TBM reached after building the shaft structure or in the condition of the earth retaining wall?	1.The Contractor shall propose actual position of end of segment to obtain approval from the Engineer. 2.Yes 3. Refer Addendum No. 3 Item No. 15.
196.	Part 3 - Section VIII, Particular Conditions (PC), Part A, Contract Data	Sub-Clause 1.1.3.3, Time for Completion		Based on our experiences and major international TBM project’s past work record of similar works, the schedule seems to extremely short and unrealistic. Moreover, you have set further constraints in the forms of handing over dates for shafts areas and key dates to other contractors that would further impact the schedule for completion. In order to study if the Contractor can really complete within this prescribed period, please provide detailed breakdown of how the planned duration for each component of the works have been aggregated to this short time for completion.	Refer Addendum No 3 Item No 107.
197.	Part 1 Section II Bid Data Sheet	BDS-ITB 20.2, Page 5 of 31	Authorization	It is stipulated that “The written confirmation of authorization to sign on behalf of the Bidder shall consist of: (a) Organizational Documents, Board Resolution and Power of Attorney specifying the representative’s authority to sign the bid on behalf of the Bidder. The Power of Attorney to be submitted in the Original.” Please confirm that the submission of the following documents meet the above requirement (a): - A copy of the Bidder’s officially published document, such as corporate report, which shows that the person issuing Power of Attorney is a board member and a representative director of the Bidder’s company who is authorized to act alone on behalf of the company	ITB 20.2 is self-explanatory. The Condition(s) of the Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				<ul style="list-style-type: none"> <li>- A copy of the resolution of a Board Meeting in which the said person was appointed as a representative director, and</li> <li>- Power of Attorney issued by the said representative director to authorize the representative(s) to sign the bid on behalf of the company</li> </ul>	
198.	Part 1 Section II Bid Data Sheet	BDS-ITB 19.1, Page 5 of 31	Bid Security	<p>In case of a joint venture (“JV”), we understand that the Bid Security can be separately submitted by each JV members based on the JV share, and don’t have to be one single Bid Security submitted under the name of JV. Please confirm.</p>	The Condition(s) of the Bidding Documents shall remain unaltered. However, it is clarified that the Bid Security may be submitted in multiples in the name of JV/Consortium.
199.	Part 1 Section IV Bidding Forms	4.0, Bidder's Qualification, Form FIR-2: Current Contract Commitments, Page 129 of 159	Current Contract Commitments	<p>Our company has approximately 1,300 construction works in hand. We would like you to kindly confirm that the following way of preparing Form FIR-2 and its Annexure would be accepted:</p> <ul style="list-style-type: none"> <li>- Only representative projects (around 10 numbers) and company’s grand total are stated on those forms.</li> <li>- Data about values of outstanding works, average monthly invoicing and estimated balance completion period are as of March 31, 2019 which is the last day of our financial year.</li> </ul>	The Condition(s) of the Bidding Documents shall remain unaltered.
200.	Part 1 Section IV Bidding Forms Bill of Quantities <b>Item 407</b> & Part 2 Section VI-3 Drawings <b>5. COMMON, TD-JIC-IC1-TDC-B01-UST-NTU-00340000 and 00390000</b>	Pages 69 of 159  Pages 11 & 16 of 16	Rebar Corrosion Monitoring System at NATM Tunnel	<p>The rebar corrosion monitoring system at the TBM Tunnel is paid under Bill No. 407 which stipulates “Supplying and installing reinforcement steel bar corrosion monitoring system (Anode ladder type) in RC segments and providing 3 Nos. (Total) hand measuring instruments in accordance with the Specification and the Drawings” and the Quantity is 15 nos. as per Drawing 00340000.</p> <p>However, there is no Bill No. for the similar rebar corrosion monitoring system at the NATM Tunnel and whose quantity is 1 No. as per Drawing 00340000.</p> <p>Please confirm where to price for this item at the NATM Tunnel.</p>	This will be issued in an Addendum.

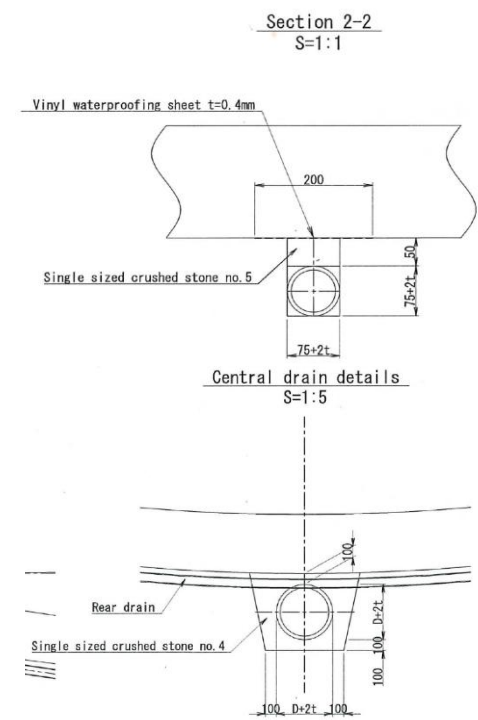
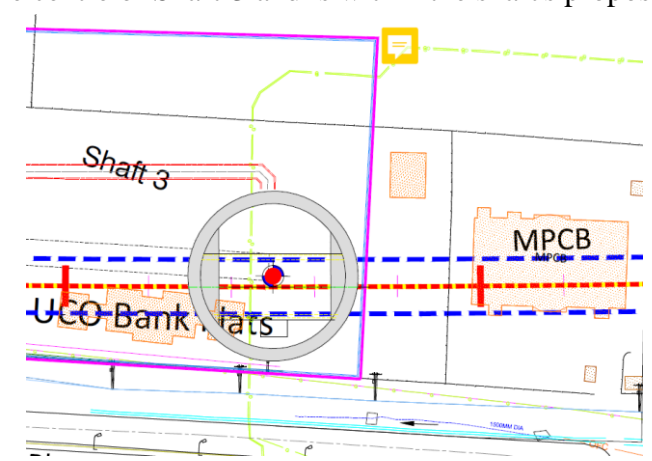
No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
201.	Section IV Bidding Forms Bills of Quantity Items 307, 324, 506 (b), and 513 (b) Section VI-4 Reference Information Att. 08 Information Drawings_20190409	Pages 38, 53, 78, 86 of 159  Page 22 of 26	Undersea Tunnel “List of Information Drawings – Main Tunnel (NATM)” dwg No. TD-JIC-IC1-TDC-B01-UST-NTU-41140000	<p>Under the Bills of Quantity, it is stipulated that “<i>Excavation/removal of unsuitable material (below subgrade) and filling by M-20 grade concrete in accordance with the Specification and the Drawings subject to the approval of the Engineer.</i>”</p> <p>While the Bills of Quantity explains that excavation/removal of unsuitable material (below subgrade) shall follow the Specifications and drawings, we cannot find any relevant specifications and/or drawings with the exception of the drawing referred herein titled “Replacement of Unsuitable Material”.</p> <p>We would like to query the followings;</p> <ol style="list-style-type: none"> <li>1. The drawing is located in Section VI-4, which is basically provided “<i>for reference purpose only</i>”. Please confirm the intention of this drawing.</li> <li>2. The referred drawing states “<i>Replacement of unsuitable material by M10 grade concrete</i>”. The backfill material is different from M-20 as stipulated in various parts of the Bills of Quantity. Please clarify which grade of concrete shall apply.</li> <li>3. The drawing does not show the depth of replacement by M10, but from the scale, the quantity seems to be very different from the pertinent Bill of Quantity Item 506(b) which shows 200 cubic metres. Please clarify</li> </ol>	<p>This will be issued in an Addendum.</p>
202.	Part 1 Section IV Bidding Forms Bill of Quantities <b>Items 402(a), 402(b), 402(c) and Item 404</b> and the following drawings Part 2 Section VI-3, Drawings <b>2. TBM</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU- 10770000</b>  Part 2 Section VI-3, Drawings <b>1. General</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU-00030000</b> Page 5 of 25 And	Pages 62 to 66 of 159 Pages 82 of 182	Quantities for TBM Segment Details and Missing Drawings	<p>(1) Bill No. 402 (a) Standard &amp; Tapered RC Segment rings (ID 12.100m) in accordance with Drawings stipulates that the quantity is 7,518 nos.</p> <p>Please confirm if this quantity is exclusive of the cast-in-situ length of 22m at the TBM docking area at Chainage 11km989m to 12km011m, which is to be paid under Item 404.</p>  <p>(2) Bill No. 402 (b) Special type of segments (RC segments + Steel segments to form a ring, ID 12.100m) in accordance with the Drawings stipulates the quantity as 171 nos.</p>	<p>(1) It is confirmed that the quantity is exclusive of TBM docking area.            (2) There are 15 locations where Type B Equipment Rooms are located. Each such location has 7 rings. Type B Equipment Rooms are located at 11 locations having 6 rings at each location. Hence the quantity of 171 is correct.            (3) &amp; (4) Refer Addendum No 2 Item No 1.</p>

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply								
	<p><b>2. TBM</b>  <b>TD-JIC-IC1-TDC-B01-UST-NTU-10310000 to 10330000</b>                      Pages 36 to 38 of 182</p>			<p>We compute the quantity as 182 nos. [(from 16 nos. Type A Equipment Room and 10 nos. Type B Equipment Room) x 7 segments per Equipment Room].                      Please clarify if 171 is correct.</p>  <p>(3) Bill No. 402 (c) Steel segments rings (ID 12.100m) in accordance with the Drawings stipulates the quantity as 14 nos.                      Please provide us the drawings for the above- mentioned Steel Segment Rings as we could not find in the tender drawings.                      (4) Drawing 10310000 is for “Steel Segment for Opening of Equipment Room (Type A)”.                      Please provide similar drawing for Equipment Room (Type B) as we could not find in tender drawings.                      We believe that the such design information will be issued as the Addendum of the Bidding Documents soon.</p>									
203.	<p>Part 2 Section VI-2.  <b>Specification (Technical Specifications)</b></p>	<p><b>CL. 4.33;</b>                      Page 64 of 199</p>	<p>Water Leakage Criteria</p>	<p>It is stipulated that “The daily water leakage in the tunnel after construction shall be within the values as per Table 21 given below:”</p> <p style="text-align: center;"><b>Table 21: Daily permissible water leakage</b></p> <table border="1" data-bbox="1498 1327 2309 1480"> <thead> <tr> <th rowspan="2">Type of Tunnel</th> <th colspan="2">Permissible daily leakage water quantity (l/m<sup>2</sup>) for a reference length of</th> </tr> <tr> <th>10 m</th> <th>100 m</th> </tr> </thead> <tbody> <tr> <td>TBM Tunnel</td> <td>0.2</td> <td>0.1</td> </tr> </tbody> </table> <p>Please clarify what is the difference between “10m” and “100m”. Does it mean that leakage for any given 100m shall be equal or less than 0.1 litre per linear metre of tunnel, but locally leakage up to 0.2 litre per linear metre of tunnel is acceptable?</p>	Type of Tunnel	Permissible daily leakage water quantity (l/m <sup>2</sup> ) for a reference length of		10 m	100 m	TBM Tunnel	0.2	0.1	<p>Bidder's understanding is correct.</p>
Type of Tunnel	Permissible daily leakage water quantity (l/m <sup>2</sup> ) for a reference length of												
	10 m	100 m											
TBM Tunnel	0.2	0.1											
204.	<p>Part 2 Section VI-3 Drawings  <b>3.NATM Drawings</b>  <b>TD-JIC-IC1-TDC-B01-UST-NTU-20010000, 20020000, 20040000</b></p>	<p>Pages 3, 4, 6 of 52</p>	<p>Backfill material for centre drain</p>	<p>Please provide the specification of backfill material for centre drain                      We believe that the such design information will be issued as the Addendum of the Bidding Documents soon.</p>	<p>Refer Addendum No 2 Item No 1 and Addendum No. 3 Item No. 41.</p>								





No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
205.	Part 2 Section VI-3 Drawings <b>3.NATM Drawings</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU-20060000 and 20110000</b>	Pages 8 and 13 of 52	Shotcrete thickness	It is stipulated that “Shotcrete t=100” Please clarify if required shotcrete thickness is minimum 100mm or average 100mm.	It is the minimum thickness.
206.	Part 2 Section VI-3 Drawings <b>3.NATM Drawings</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU-20070000, 20080000, 20120000 and 20130000</b>	Pages 9, 10, 14 and 15 of 52	Shotcrete thickness	It is stipulated that “Shotcrete t=150” Please clarify if required shotcrete thickness is minimum 150mm or average 150mm.	It is the minimum thickness.
207.	Part 2 Section VI-3 Drawings <b>3.NATM Drawings</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU-20090000, 20100000</b>	Pages 11 and 12 of 52	Shotcrete thickness	It is stipulated that “Shotcrete t=200” Please clarify if required shotcrete thickness is minimum 200mm or average 200mm.	It is the minimum thickness.
208.	Part 2 Section VI-3 Drawings <b>1. GENERAL</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU-0180000</b> <b>3. NATM MAIN TUNNEL</b> TD-JIC-IC1-TDC-B01-UST-NTU-20230000 and 20240000	Page 20 of 25 Pages 25 & 26 of 52	Works at Main Tunnel Portal	We note that the following items are not shown on the drawings for Main Tunnel Portal: 1) Drawing Nos. 20230000 & 20240000 – The formation level for site clearance is not indicated. 2) Drawing Nos. 00180000 & 20230000 – The scope/boundary for site clearance is not clear.  Please provide the above information.  We believe that such design information will be issued as Addendum of the Bidding Documents soon.	(1) Refer to Clause 8 of Sub-Division 06010 of GS at page 10 of 51. (2) The boundary of site clearance is the same as that of ROW.
209.	Part 2 Section VI-3 Drawings <b>3. NATM MAIN TUNNEL</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU-20500000</b> <b>4. NATM ADIT TUNNEL</b> <b>TD-JIC-IC1-TDC-B01-UST-NTU-23370000</b>	Page 52 of 52 Page 39 of 39	Works at Main Tunnel Portal and Adit Portal	We note that the gradient of the following items is not shown in Drawing Nos. 20500000 and 23370000: 1) Drain & catch pit 2) Boundary wall 3) Fencing & footing 4) Box Culvert 5) Access Metaled Rd Please provide the above information. We believe that such design information will be issued as Addendum of the Bidding Documents soon.	Addendum No. 2 Item No. 1.

No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
210.	Part 2 Section VI-3 Drawings <b>3. NATM MAIN TUNNEL TD-JIC-IC1-TDC-B01-UST-NTU-20330000</b> & <b>4. NATM ADIT TUNNEL Drawing TD-JIC-IC1-TDC-B01-UST-NTU-23200000</b>	Page 35 of 52 Page 22 of 39	Details of Drainage at Main Tunnel and Adit Tunnel	<p>We note that Vinyl waterproofing sheet <math>t = 0.4\text{mm}</math> is shown at bottom of pipe in Section 2-2 below.</p>  <p>Please confirm if the vinyl waterproofing sheet <math>t = 0.4\text{mm}</math> shall be extended to include the sides and bottom of trench excavation in “Section 2-2” and “Central drain details” above. Please show clearly how the relevant details are developed.</p>	Addendum No. 2 Item No. 1.
211.	Part 2 Section VI-4 Reference Information 4. Utility <b>Att. 4B-i, ii &amp; iii _ Drawings of Shaft 2, Shaft 3 and NATM Portal</b>	Page 3 of 4	Utility – Gas Pipeline at Shaft-3 area	<p>The drawing in Att. 4B-i, ii &amp; iii shows that a gas pipeline is running close to the centre of Shaft-3 and is within the shaft's proposed outline</p>  <p>However, during the Pre-Bid meeting on 24 May 2019, the Engineer informed that the said gas pipeline is running along the outside of the proposed shaft and not within its outline.                      Please clarify whether the said gas pipeline is abandoned. Please also confirm that this new detail of the pipeline, relative to the Shaft-3, will</p>	Refer to Addendum No 3 Item 68



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				be updated in an Addendum soon.	
212.	Section VI-4 Reference Information Index.pdf	Page 3 of 3	Index and relevant information	<p>The footnote to the Index for Section VI-4 denotes that “<i>These contents shall be for reference purpose only.</i>” However, they are necessary for the execution of the Contract.</p> <p>For instance, the geotechnical information provided shall form the basis of the decisions on the Contractor’s construction methods including the selection of TBM and for the Contractor’s acquisition of insurance in accordance with the Contract requirements. Information on Utilities also are directly linked to the Contractor’s planning and execution.</p> <p>As such, please confirm that Section VI-4 Reference Information is not just provided for bid preparation purpose but shall be incorporated in the Contract.</p>	The Condition(s) of the Bidding Documents shall remain unaltered
213.	Part 3, Section VIII, Particular Conditions (PC) Part A-Contract Data	Sub-Clause 18.1, Period for submission of insurance, Page 7 of 33	Period for submission of insurance	<p>It is stipulated that the evidence of insurance.to be submitted within. 14 (fourteen) days from the Commencement Date and the relevant policies themselves must be submitted within. 28 (twenty-eight) days from the Commencement Date.</p> <p>Being a tunnel works contract package, conditions provided in “A Code of Practice for Risk Management of Tunnel Works 2<sup>nd</sup> Edition (May 2012)” prepared by the International Tunnelling Insurance Group (“Code”) must be satisfied in principle in order to secure the insurance in time. The Code requires that a Risk Register be prepared and updated throughout the project stages.</p> <p><i>“4.3 Risk Registers</i></p> <p><i>4.3.1 The processes of Risk Assessment and the subsequent preparation of Risk Registers are required to identify and clarify ownership of risks and shall detail clearly and concisely how the risks are to be allocated, controlled, mitigated and managed. The systems used to track risks shall enable the management and mitigation of risks through contingency measures and controls to be monitored through all stages of a project.</i></p> <p><i>4.3.2 Risk Registers shall be 'live' documents that are continually reviewed and revised as appropriate and available for scrutiny at any time. They shall provide an auditable trail through the life of a project to demonstrate compliance with the Code. They shall identify hazards, consequent risks, mitigation and contingency measures, proposed actions, responsibilities, critical dates for completion of actions and when required actions have been closed out.”</i></p> <p>Please provide the Excel or PDF file of the risk register prepared to date by the Employer and/or the Engineer.</p>	The Condition(s) of the Bidding Documents shall remain unaltered.
214.	Part 1, Section IV, Bidding Forms,	5.0 Checklist of Submission of Documents/Forms duly	Checklist of Submission of Documents/Forms duly filled for the Technical Bid	<p>The following 2 documents are listed in “5.0 Checklist of Submission of Documents/Forms duly filled for the Technical Bid”.</p> <p>“6. Form - JV/Consortium Agreement”</p> <p>“18. Letter of Intent to form JV / Consortium”</p>	The Bidder is required to submit either JV/Consortium Agreement if JV/Consortium has been formed or Letter of Intent to form JV / Consortium along



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
		filled for the Technical Bid, Page 144 of 159		We believe that only one of the above 2 documents shall be submitted based on the status of JV / Consortium formation at the Bid submission, and the other document is not necessary to be submitted. Please confirm if our above understanding is correct.	with draft JV/Consortium Agreement, if JV/Consortium yet to be formed.
215.	Part 1 Section IV, Bidding Forms,	Bills of Quantity Item 501(a) and 509(a), Page 72 of 159 and 81 of 159		While the Bills of Quantity explains total length for each class of support pattern, we cannot find any drawings and/or reference document which indicates the classification of support pattern along NATM tunnel and Adit tunnel. It is the essential design information for the Contractor to estimate the construction cost based on the classification of support pattern along the tunnel. Please confirm that such design information will be issued as the Addendum of the Bidding Documents soon.	Refer Section VI-4, Attachment 1A
216.	Part 2, Section VI-2, Specification (Technical Specification),	CL. 5.19, Page 101 of 199	TS CL 5.19 Equipment Rooms	For NATM support, Japanese standard for mountain tunnelling fifth edition stipulates that "In general, the components of tunnel support are shotcrete, rock bolts and steel rib support. Where ground conditions are not favourable or special conditions are expected, concrete lining may also be considered as a part of the tunnel support." On the other hand, it is stipulated that "Design of temporary support system of Equipment Rooms shall be carried out by the Contractor and shall submit to obtain approval from the Engineer." Our understanding that the tunnel support such as shotcrete, rock bolts and steel rib support are considered as just temporary support of these equipment rooms till casting lining concrete for permanent structure. Accordingly, the temporary support is not considered as part of member of permanent structure. Please confirm.	Bidder's understanding is correct
217.	Part 2, Section VI-2, Specification (Technical Specifications)	CL. 4.18 (8)(a), Page 49 of 199	Assessment of Impact on Structures	It is stipulated that the Contractor shall provide an assessment of the effect of the predicted movement on all structures within the zones of influence.  Our understanding that Tunnel design were carried out by client and there should be impact assessment reports by design consultant. Please provide those assessment reports for estimation cost.	All available information has been included in Section VI-4
218.	Part 2 Section VI-2, Specification (Technical Specifications)	CL. 4.18 (9), Page 50 of 199	Staged Assessment  (d) Stage 3 Assessments	It is stipulated that as a result of the Stage 3 analysis, the requirement for any protective works shall be established and the details of any protective works including designs and method of working determined. Details of such works shall be submitted to obtain approval from the Engineer. The cost of all such protective works is included in the Accepted Contract Amount. No extra payment shall be made to the Contractor on this account.  At the tender stage, there are only limited information (such as ATTACHMENT 5 FIELD SURVEY REPORT A. Building Survey Report) available and it is very difficult to evaluate impact to existing building structure and estimate cost of all protective works. Please	The Condition(s) of the Bidding Documents shall remain unaltered.



No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				change those cost relate to protective works of existing building structure to provisional sum?	
219.	Part 2 Section VI-2, Specification (Technical Specifications)	CL. 8, Page 180, 183 of 199CL. 2, Page 33, 47 of 159	METHOD OF MEASUREMENT FOR PAYMENTBills of QuantitiesBill Nos. 303, 320	In the Technical Specifications, it is stipulated that measurement for payment for this item shall be in square meter (sqm) from the Drawings or established at the Site by the Engineer. Payment will be made at the Unit Price per sqm entered in the Priced Bill of Quantities. Please confirm that the waterproofing for the shaft shall be paid under items 303 and 320 of the Bills of Quantity.	Refer Addendum No. 2 Item No. 1 and Addendum No 3 Item No. 78.
220.	Part 2, Section VI-3, Drawings, 1. General Drawings TD-JIC-IC1-TDC-B01-UST-NTU-00180000	Pages 20 of 25	Works area access plan main tunnel portal	During site visit on 7/June, many scraps and houses with residents were found inside ROW. Please confirm that these materials and houses inside ROW shall be removed when the area is handed over to the Contractor.	This will be removed by NHSRCL.
221.	Part 3, Section VIII, Particular Conditions (PC), Part A-Contract Data  Part 3, Section VII, General Conditions (GC)	Sub-Clause 14.2, Advance Payment Page 6 of 33  GC Clause 8.1 Commencement of Works	Advance Payment  Commencement of Works	<p>PC Part A CL. 14.2 stipulates the amount and provisions of Advance Payment as;            “15%(fifteen percent) of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable.            The Advance Payment shall be made in two instalments as under:            a) 10 (ten) percent: On submission of a Performance Security; and            b) 5 (five) percent: On submission of proof of placement of order for three (3) TBMs.”</p> <p>1. Is it correct for the Bidder to understand that the total amount of Contractor’s Advance Payment Guarantee shall be 15% for covering both Advance Payments a) and b) above?            2. If the above provision is read in conjunction with the General Conditions of Contract Sub-clause 8.1 Commencement of Works item (d) (which stipulates the receipt by the Contractor of the Advance Payment as a condition precedent to Commencement of Work) we understand the Commencement of Work will be after the Contractor receives both Advance Payments a) and b).            3. As an alternative to the above intertwined provisions, we would like to request the Employer to kindly consider the following;              1 The Advance Payment to be a straightforward “15% (fifteen percent) of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable.”              1 The procurement of three TBMs to be separate BOQ items for each TBM with payment to be progressively measured in accordance with progress of procurement as follows;</p> <p>(1) 30% upon submission of proof of placement of order,            (2) 60% upon successful factory inspection,            (3) 5% upon arrival at Site, and            (4) 5% upon successful launch.</p>	<p>1. The Bidder may submit separate Bank Guarantees for Advance Payment instalment covered under Sub-Clause 14.2 (a) &amp; (b).            2. Refer Addendum No. 3 Item No. 101.            3. The Condition(s) of the Bidding Documents shall remain unaltered.</p>





No	Part & Section reference	Page no / Clause No.	Provisions as Per-Bidding Documents	Bidder Query	Employer's Reply
				<p>We believe that the application of the original contract provisions is not practical because it includes complications in the definition of the advance payment. Furthermore, as discussed in the Pre-Bid Meeting, cashflow of the Contractor will be significantly negative. The negative cashflow does not dissolve even if we can receive 15% of Accepted Contract Amount as the Advance Payment.</p> <p>In consideration of the above situation, we would like to request the Employer to support the Contractor's cashflow by accepting our alternative proposal in No.3 above and by adding the Bill of Quantity item to be paid for the completion of Segment Factory setup.</p>	