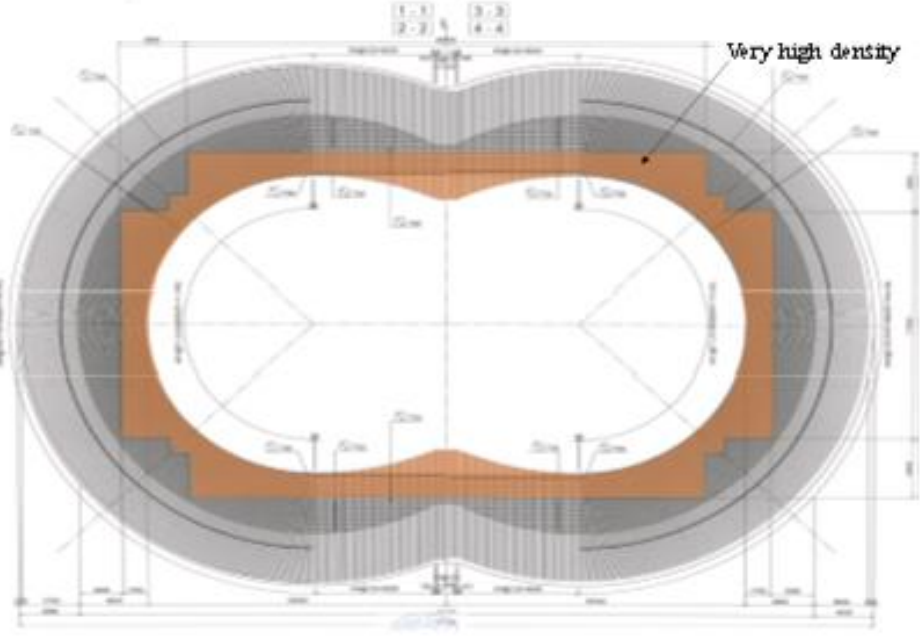


Package Title: Construction of Tunneling Works including Testing and Commissioning for Double Line High Speed Railway using Tunnel Boring Machine (TBM) and New Austrian Tunneling Method (NATM) between Mumbai Underground Station at Bandra-Kurla Complex (MAHSR Km. 0.773) and Shilphata (MAHSR Km. 21.150)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

Package No: MAHSR-C-2

Date: 09 – Oct. - 2019

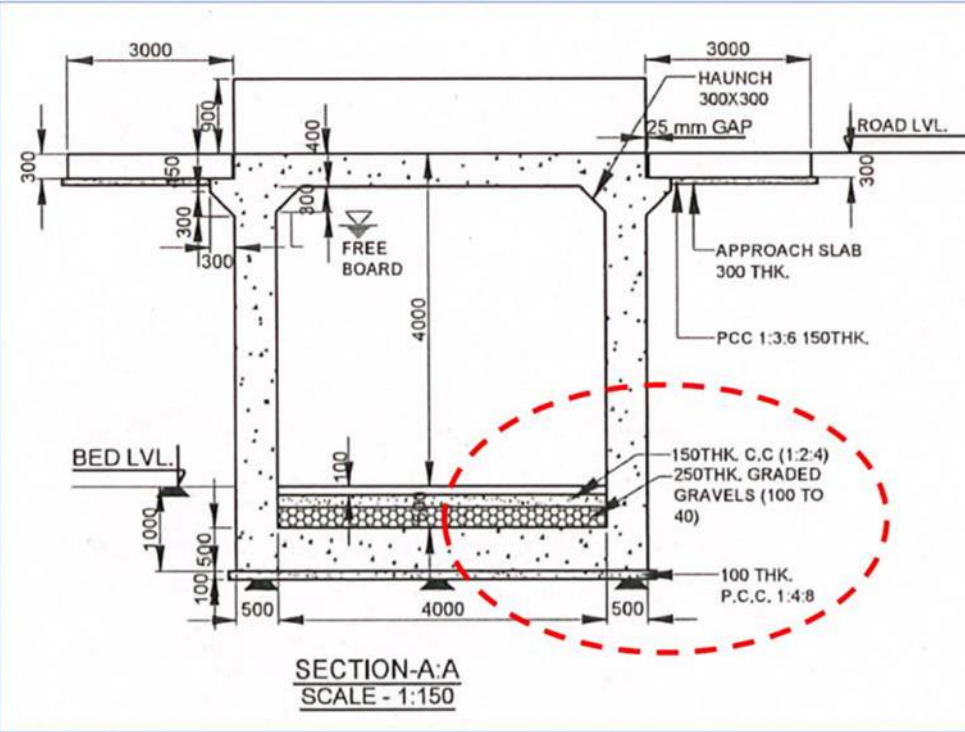
Response to Bid Queries - 5

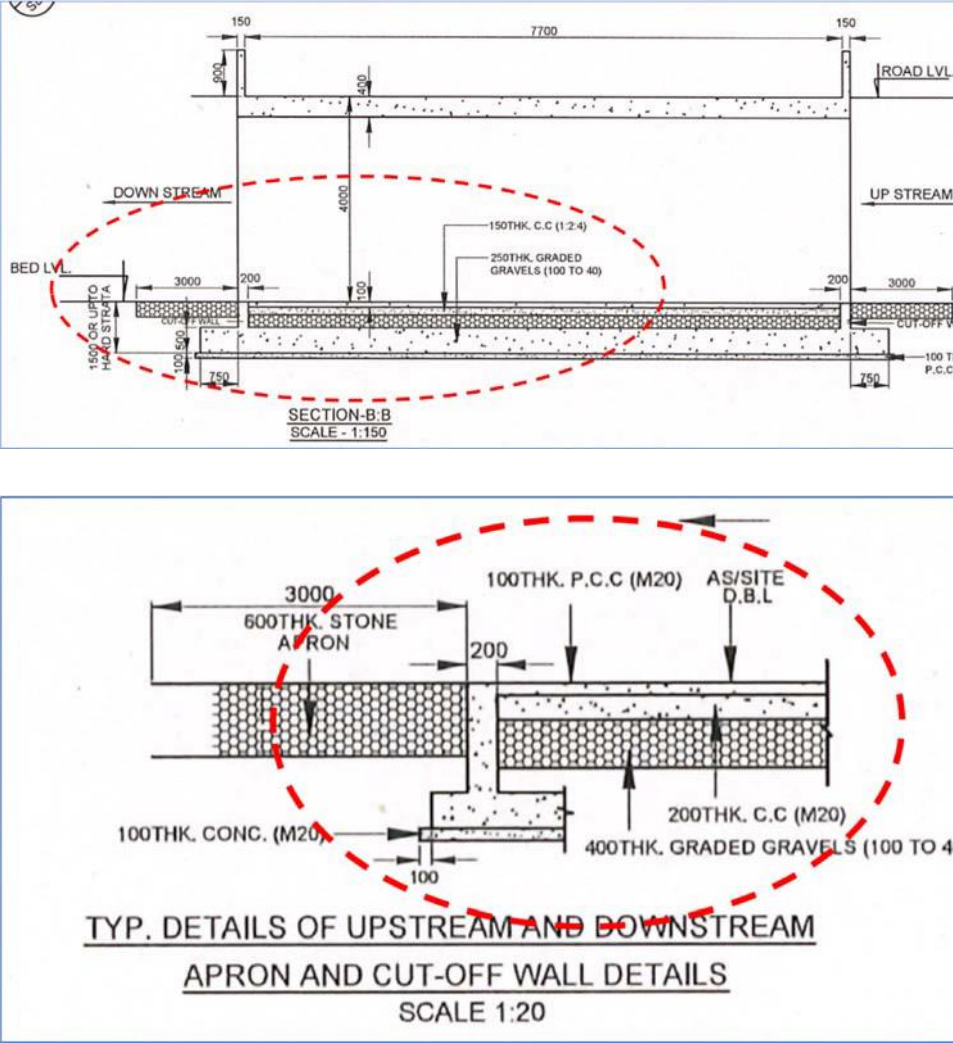
Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply
1.	Part 2 Section VI-3 Drawings 03. Shaft2 Drawings TD-JIC-IC1-TDC-B01-UST-NTU-15530000 to 15560000		Arrangement of reinforcement for Shaft-2(1) Bottom Slab (1) Arrangement of reinforcement for Shaft-2(2) Bottom Slab (2) Arrangement of reinforcement for Shaft-2(3) Bottom Slab (3) Arrangement of reinforcement for Shaft-2(4) Bottom Slab (4)	<p>The intersection area of the radial and mesh rebars have a very high density in the drawings from Nos. TD-JIC-IC1-TDC-B01-UST-NTU-15530000 to 15560000 described arrangement of reinforcement for shaft-2.</p> <p>There is no space for fixing the stirrup reinforcement.</p> <p>In this reinforcement bar arrangement, concrete cannot be filled enough. Please clarify how to fix the stirrup reinforcement, how to place concrete, and the required workability of concrete.</p>  <p>The shaft 3 is also the same.</p>	The Drawings will be revised, if required, and provided during execution of work.
2.	In the Addendum No.3, Item No.107			Time for Completion had been revised to 1,760 days. In accordance with this revision, the quantity of the BOQ Bill No. 1.0: General Item No. 102 should be revised 59 months. Please clarify and issue an addendum accordingly.	Refer Addendum No.4 Item No.1



Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply
3.	Referring to the Bill No. 2.2: At Adit Portal, Item no. 209 c), i),ii) and iii)			These rock bolts are not mentioned in the drawing. Please advise us where to use these rock bolts.	The location of the rock bolts will be proposed by the Contractor depending upon the site conditions and approved by the Engineer.
4.	Referring to the Bill No.5.2: Adit Tunnel, Item no. 511 d)			The quantity of Pavement concrete is described as '394m'. As far the Drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-2301000, pavement length of NATM portion should be '371m'. We guess that this length is including 'Cut & Cover Tunnel' pavement (23meter) which quantity is counting in Item no. 514 d) also. Please clarify.	Refer Addendum No. 7 Item No. 8.
5.	Part 3, Section VIII, Part A – Contract Data,	1.1.3.3, Page 5 of 33	Time for Completion: 1760 days	<p>Bidder would like to inform the Employer that the stipulated construction duration of 1760 days for completion of Construction activities at site is not realistic considering existing conditions / restrictions mentioned in the tender documents.</p> <p>In order to bring the schedule of 1760days to a realistic level, following need to be assured by NHSRCL:</p> <ol style="list-style-type: none"> 1) All Work Area Access (Shaft – 2, Shaft – 3, NATM Portal & Adit Portal) on day one (1). 2) Availability of Sufficient land for Construction facilities on day one (1) 3) Availability of Shaft – 1 for Tunnel Excavation front (NATM) towards shaft – 2, by 12th Month 4) TBM Invert Concrete in Parallel with TBM Excavation using pre-cast element 5) Ventilation Building as Ancillary building adjacent to the shafts. 6) 24 x 7 Blasting permission for shaft construction and NATM 	<p>1) Refer Addendum No. 6 Item No. 7 and 8.</p> <p>2) to 5) The condition(s) of Bidding Documents shall remain unaltered.</p> <p>6) It is responsibility of the Contractor to obtain permission of blasting from relevant authorities.</p>

Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply																
				Tunnel Works The above, is excluding delay risks, which can occur due to change in Geology and other events.																	
6.	Part 2, Section VI-1, Division 4000, Sub-Division 4100, Table: Summary of Milestone, Column 1 to Column 3,	Clause 2; Page 69 – 70 of 100	<table border="1"> <thead> <tr> <th>Description</th> <th>Completion</th> </tr> </thead> <tbody> <tr> <td>Completion of all permanent works in tunnels as shown in the drawings between Chainage 0km 772m 869 to Chainage 6 km 561 m and handing over to T1 Contractor</td> <td>1560 days</td> </tr> <tr> <td>Completion of all permanent works in tunnels as shown in the drawings between Chainage 6km 561m to Chainage 12 km 000 m and handing over to T1 Contractor</td> <td>1620 days</td> </tr> <tr> <td>Completion of all permanent works in tunnels as shown in the drawings between Chainage 12km 000m to Chainage 16 km 210 m and handing over to T1 Contractor</td> <td>1620 days</td> </tr> </tbody> </table>	Description	Completion	Completion of all permanent works in tunnels as shown in the drawings between Chainage 0km 772m 869 to Chainage 6 km 561 m and handing over to T1 Contractor	1560 days	Completion of all permanent works in tunnels as shown in the drawings between Chainage 6km 561m to Chainage 12 km 000 m and handing over to T1 Contractor	1620 days	Completion of all permanent works in tunnels as shown in the drawings between Chainage 12km 000m to Chainage 16 km 210 m and handing over to T1 Contractor	1620 days	<p>Bidder would like to inform the Employer that the Milestones as defined need modification.</p> <p>It is requested to revise the Milestones as per below mentioned statement.</p> <p>It is to note that the completion days as being proposed in the below mentioned table is subject to the modifications / addendums in the tender documents as requested at point No. 3, above.</p> <table border="1"> <thead> <tr> <th>Description</th> <th>Completion</th> </tr> </thead> <tbody> <tr> <td>Completion of all permanent works in tunnels as shown in the drawings between Chainage 0km 772m 869 to Chainage 6 km 561 m and handing over to T1 Contractor</td> <td>1760 days</td> </tr> <tr> <td>Completion of all permanent works in tunnels as shown in the drawings between Chainage 6km 561m to Chainage 12 km 000 m and handing over to T1 Contractor</td> <td>1760 days</td> </tr> <tr> <td>Completion of all permanent works in tunnels as shown in the drawings between Chainage 12km 000m to Chainage 16 km 210 m and handing over to T1 Contractor</td> <td>1760 days</td> </tr> </tbody> </table>	Description	Completion	Completion of all permanent works in tunnels as shown in the drawings between Chainage 0km 772m 869 to Chainage 6 km 561 m and handing over to T1 Contractor	1760 days	Completion of all permanent works in tunnels as shown in the drawings between Chainage 6km 561m to Chainage 12 km 000 m and handing over to T1 Contractor	1760 days	Completion of all permanent works in tunnels as shown in the drawings between Chainage 12km 000m to Chainage 16 km 210 m and handing over to T1 Contractor	1760 days	The condition(s) of Bidding Documents shall remain unaltered.
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7.	Part 2, Section VI-1, Division 06000, Sub-Division 06010, Addendum 4 Item 11	Sub-Clause 3.1, Page 5 of 51	Acquisition of additional land	Please provide the plan drawing showing the location of 1.36ha land with permission to use for temporary basis. This is to assist the planning for our temporary site usage.	Refer Addendum No. 7 Item No. 11. Plan drawing showing the location of land for temporary use will be provided after award of the Contract.																

Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply
8.	Part 2 Section V1-3 Drawings from Addendum No. 2 F. NATM (ADIT TUNNEL) DRAWINGS TD-JIC-IC1-TDC-B01-UST-NTU- 23510000 (NEW) TD-JIC-IC1-TDC-B01-UST-NTU- 23530000 (NEW)	Page 37 of 40 and Page 39 of 40	Discrepancy on the drawing.	<ol style="list-style-type: none"> 1. <u>Drawing 23510000 / ADIT TUNNEL PORTAL-PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (CULVERT DETAILS) (1)</u> 2. <u>Drawing 23530000 / ADIT TUNNEL PORTAL-PERMANENT REINSTATEMENT AND ASSOCIATED WORKS (CULVERT DETAILS) (3)</u> <p>There are discrepancies between Section-AA, BB and TYP. Details.</p> 	Refer Addendum No.7 Item No. 1.

Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply
					
9.	Part3 Section VIII Particular Conditions, Part A Contract Data,	CL. 1.1.3.3 Page 5 of 33	Time for Completion	<p>Please provide the correct information.</p> <p>In relation to the No. 107 and No. 108 of the Addendum No.3 provided on 29th July 2019, we appreciate your amendment of the Time for Completion. But based on our experiences and past work records for major international TBM projects of similar nature, the schedule still seems to be insufficient with the current contract condition specified in the Bidding Documents. It is necessary to allow longer Time for Completion or additional and/or revised conditions to shorten the construction period.</p>	The Contractor should workout his schedule of completion.

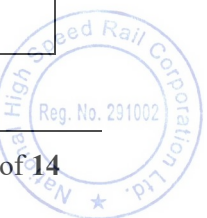
Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply
				In order to study if the Contractor can really complete within this prescribed period, please provide detailed breakdown of how the planned duration for each component of the works have been aggregated to this short time for completion (1760 days).	
10.	Part 3, Section VIII Particular Conditions (PC)	Page 7 of 33	Sub-Clause 18.2 (d) Maximum amount of deductibles for insurance of the Employer's risks	The maximum amount of deductibles for insurance of the Employer's Risks are set at INR6,000,000.00 for Act of God. The aforesaid amount is relatively low and all international reinsurance companies inquired expressed that they are unable to accept the said conditions. We would like to propose that the maximum amount of deductibles for insurance should be revised to equivalent to more than USD300,000.00.	Refer Addendum No.7 Item No. 18.
11.	Part I Section VIII Particular conditions Part A Contract Data	Sub Clause I I 3 3 Page 5 of 33	Time for completion	We understand that the Construction period in the bidding document shall be 58 Months . However, based on our study that the total construction period shall be 67-68 Months, Therefore, to comply with the required construction period, Design changes or change of conditions are required such as, Shifting location of ventilation building for giving access to TI & EI Contractor. Changing the structure of all shafts. Giving access to TI & EI Contractor will be the condition to comply with the period of 58 months. We request the Employer to give an opportunity to discuss the above issues.	The condition(s) of Bidding Documents shall remain unaltered.
12.	Vol-3 Part 1 Section III Bidding Document Evaluation and Qualification Criteria 4.2.5 Major Plant & Equipment Response to Bid Queries –		Boomer for NATM tunnel works	In relation to the Employer's Reply to Bid Queries -1, Item No. 53 and to Reply to Bid Queries -2, Item No. 56, we would like to request the Employer to kindly accept the following alternative to boom machine combination stated below. According to the Bidding document, NATM tunnel drilling jumbo is highlighted as "3 boom + 1 boom" at each face in EQU section documents.	Refer Addendum No 7 Item No 17.

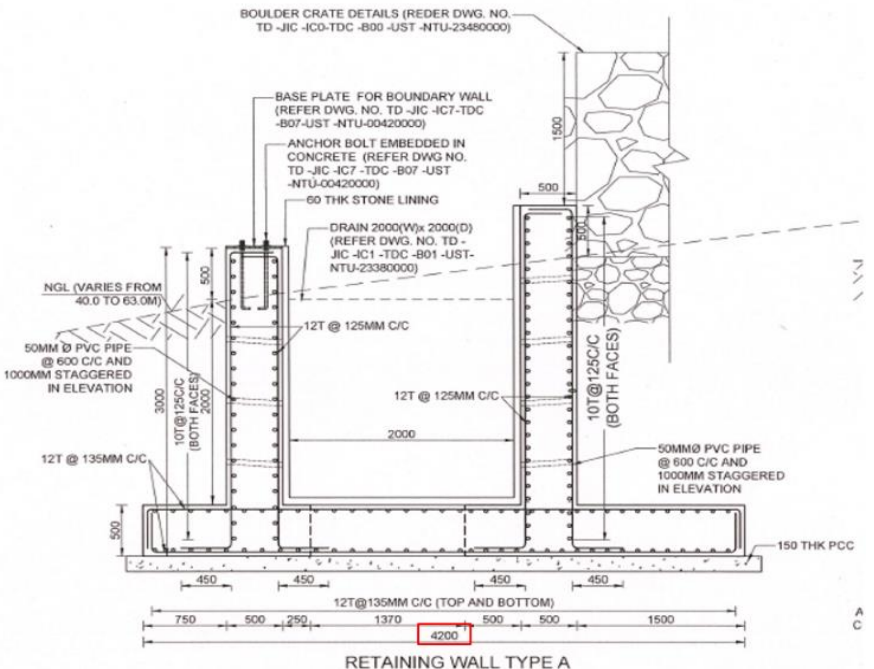
Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply				
	1 Item No. 53 Response to Bid Queries – 2 Item No. 56			But this time, we are planning to use “2 boom +2 boom” at each face instead. Total boom is still 4 but machine combination is different. Please confirm.					
13.	Part 1 Section IV Bidding Form Addendum 4_ Attachment 1 Items 502 & 510 Part 2 Section VI-3 Drawings (from original tender documents) 3. NATM Drawings TD-JIC-IC1-TDC-B01-UST-NTU-20100000		Fore poling deleted	Bidder noted that fore poling was deleted from BOQ 502 & 510 in Addendum No. 4 Attachment 1. Please kindly delete details of fore poling in corresponding Drawing 20100000.	Refer Addendum No. 6 Item No. 1.				
14.	Part 1 Section IV Bidding Form Addendum 4_ Attachment 1 Bill No. 313 (Page 31 of 89) and Bill No. 330 (Page 48 of 89). Part 2 Section VI – 3 Drawings from Addendum 4 TD-JIC-IC1-TDC-B01-UST-NTU-15520001 (Page 27 of 119) and		Location of Chain Link Fencing Mesh	There are no clear markings on where the Chain Link Wire Mesh should be installed in the drawings but there are items in Bill nos. 313 and 330. Please indicate clear markings in the drawings where Chain Link Wire mesh fencing are to be installed. <table border="1"> <tr> <td>313</td> <td>Supplying & fixing of chain link wire mesh fencing with barbed wires in layers (on top) including excavation, muck disposal, backfilling, form work, concreting, compacting, curing, protective coating on structural steel complete in all respects in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 314.</td> <td>m</td> <td>13</td> </tr> </table>	313	Supplying & fixing of chain link wire mesh fencing with barbed wires in layers (on top) including excavation, muck disposal, backfilling, form work, concreting, compacting, curing, protective coating on structural steel complete in all respects in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 314.	m	13	Refer Addendum No 7 Item No 1 and 16.
313	Supplying & fixing of chain link wire mesh fencing with barbed wires in layers (on top) including excavation, muck disposal, backfilling, form work, concreting, compacting, curing, protective coating on structural steel complete in all respects in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 314.	m	13						

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15.	Part 1 Section IV Bidding Form Addendum 4_Attachment 1 Bill No. 209 c) i) to iii) (Pages 11 & 12 of 89)		No Detail Drawing.	Please provide the detail drawings for the below items. <table border="1"> <tr> <td>209</td> <td>Slope protection works in accordance with the Specification and the Drawings.</td> <td></td> <td></td> </tr> <tr> <td>a)</td> <td>Supplying and spraying shotcrete of 100mm thickness including supplying and fixing of wire mesh of size 100 mm x 100mm x 3.4 mm including all incidental works.</td> <td>Sq m</td> <td>180</td> </tr> <tr> <td>b)</td> <td>Supplying, drilling & installation of 25mm diameter, 8.5 metre long soil nails including grouting and all other accessories complete in all respects.</td> <td>Nos</td> <td>250</td> </tr> <tr> <td>c)</td> <td>Supplying, drilling & installation of 25 mm diameter rock bolts of grade Fe500D including bearing plate, nut, grouting and</td> <td></td> <td></td> </tr> <tr> <td></td> <td>all other accessories complete in all respects.</td> <td></td> <td></td> </tr> <tr> <td>i)</td> <td>Length -3.0m</td> <td>Nos.</td> <td>90</td> </tr> <tr> <td>ii)</td> <td>Length -4.0m</td> <td>Nos.</td> <td>80</td> </tr> <tr> <td>iii)</td> <td>Length -5.0m</td> <td>Nos.</td> <td>70</td> </tr> </table>	209	Slope protection works in accordance with the Specification and the Drawings.			a)	Supplying and spraying shotcrete of 100mm thickness including supplying and fixing of wire mesh of size 100 mm x 100mm x 3.4 mm including all incidental works.	Sq m	180	b)	Supplying, drilling & installation of 25mm diameter, 8.5 metre long soil nails including grouting and all other accessories complete in all respects.	Nos	250	c)	Supplying, drilling & installation of 25 mm diameter rock bolts of grade Fe500D including bearing plate, nut, grouting and				all other accessories complete in all respects.			i)	Length -3.0m	Nos.	90	ii)	Length -4.0m	Nos.	80	iii)	Length -5.0m	Nos.	70	The location of the rock bolts will be proposed by the Contractor depending upon the site conditions and approved by the Engineer.
209	Slope protection works in accordance with the Specification and the Drawings.																																				
a)	Supplying and spraying shotcrete of 100mm thickness including supplying and fixing of wire mesh of size 100 mm x 100mm x 3.4 mm including all incidental works.	Sq m	180																																		
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16.	Part 1 Section IV Bidding Form Earthwork at Main Tunnel Portal and Drawing TD-JIC-ICI-TDC-B01-UST-NTU-20490003	Addendum 4_Attachment 1 Bill No. 201 & 202 (Page 8 of 89)	<u>Main Tunnel Portal</u> Missing contour levels	There are no existing contour level on the drawings Please provide.	Refer Addendum No 7 Item No 1																																
17.	Part 1 Section IV Bidding Form Earthwork at Adit Tunnel Portal and Drawings TD-JIC-ICI-TDC-B01-UST-NTU-23360002 and 20240002	Addendum 4_Attachment 1 Bill No. 208 (Page 11 of 89)	<u>Main Tunnel Portal – Cut & Cover and Adit Tunnel Portal</u> Missing contour levels	(1) There are no existing contour levels on drawing 23360002 Please provide (2) Section A in drawing 20240002 shows existing contour line but is stated as “Assumed existing ground level” Please clarify	i. Refer Addendum No 6 Item No 1 ii. GL provided is indicative. The Contractor shall carry out the topological survey to confirm the existing ground level.																																
18.	Part 1 Section IV Bidding Form Soil nail & Shotcrete at Adit Tunnel Portal and Drawing TD-JIC-ICI-TDC-B01-UST-NTU-	Bill No. 209 a) & b) (Page 11 of 89)	Soil Nail & Shotcrete at Adit Tunnel Portal	The quantity provided in bill of quantities is too much different from the scope shown in the draawing. Please clarify	Refer Addendum No. 7 Item No. 10.																																

Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply												
	23500000																
19.	Part 1 Section IV Bidding Form	Addendum 4_ Attachment 1 Bill No. 312 b) iv) Page 31 of 89	Missing Gate G4 drawing	<table border="1"> <tr> <td>iv)</td> <td>G4: 1500 mm x 1800 mm</td> <td>Nos</td> <td>1</td> </tr> </table> <p>Details of mild steel gate G4 is not found in the tender drawings. Please provide.</p>	iv)	G4: 1500 mm x 1800 mm	Nos	1	Refer Drawing no. TD-JIC-IC7-TDC-B07-UST-NTU-00520000 issued in Addendum No 2 Item No 1.								
iv)	G4: 1500 mm x 1800 mm	Nos	1														
20.	Part 1 Section IV Bidding Form	Addendum 4_ Attachment 1 Bill Nos. 329 b) and 329 b) i) Page 47 & 48 of 89	Redundant quantity in Item 329 b)	<table border="1"> <tr> <td>b)</td> <td>Supplying, fabricating & fixing of MS gate including providing RCC pedestals of specified size with bolts, nuts, stoppers, handles, locking arrangements, protective coating on</td> <td>Nos.</td> <td>2</td> </tr> <tr> <td></td> <td>structural steel in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 331.</td> <td></td> <td></td> </tr> <tr> <td>i)</td> <td>G3: 6000 mm x 1800 mm</td> <td>Nos.</td> <td>2</td> </tr> </table> <p>We noted that 329 b) and 329 b) i) both indicate quantity of 2 nos. each. Please confirm if quantity in 329 b) is redundant and shall be deleted.</p>	b)	Supplying, fabricating & fixing of MS gate including providing RCC pedestals of specified size with bolts, nuts, stoppers, handles, locking arrangements, protective coating on	Nos.	2		structural steel in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 331.			i)	G3: 6000 mm x 1800 mm	Nos.	2	Refer Addendum No. 7 Item No. 9.
b)	Supplying, fabricating & fixing of MS gate including providing RCC pedestals of specified size with bolts, nuts, stoppers, handles, locking arrangements, protective coating on	Nos.	2														
	structural steel in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 331.																
i)	G3: 6000 mm x 1800 mm	Nos.	2														
21.	Part 1 Section IV Bidding Form	Addendum 4_ Attachment 1 Bill Nos. 511 d) and 514 d) Pages 77 & 80 of 89		<p>Adit Tunnel</p> <p>511. Supplying, transporting, placing, compacting & curing cast-in-situ concrete (reinforced/plain cement concrete) of specified grade including formwork, drainage system, providing waterproofing system, evacuation guidance indication boards and indication of lining thickness in accordance with the Specification and the Drawings.</p> <p>Note –</p> <p>i. The chainages given are tentative and may change during execution of works.</p> <p>The reinforcement steel shall be paid separately under item no. 516.</p> <p>d). Pavement concrete of grade M-25 including supplying & fixing of concrete kerbs.</p> <p>Original quantity – 371m Revised quantity as per Addendum No. 4 – 394m <i>We noted an increase in quantity of 23m.</i></p>	Refer Addendum No. 7 Item No. 8.												

Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply										
				<p><u>Cut and Cover Adit Tunnel</u> 514. Supplying, transporting, placing & curing cast-in-situ plain/reinforced cement concrete of specified grade including water stop & joint filler at the construction joints, formwork, drainage system and water proofing system in accordance with the Specification and the Drawings. Reinforcement steel shall be paid separately under item no. 516. d). Pavement concrete of grade M-25 including supplying & fixing of concrete kerbs.</p> <p>Original quantity – 23m Quantity as per Addendum No. 4 – 23m We noted no change in quantity.</p> <p>Please advise the additional 23m in BOQ 511d) as we are not able to locate it in the tender drawings.</p>											
22.	Part 2 Section V1-3 and Part 1 Section IV Bidding Form Addendum 4_ Attachment 1 Bill No. 515 a) Page 80 of 89	Drawings from Addendum No. 2 F. NATM (ADIT TUNNEL) DRAWINGS TD-JIC-IC1-TDC-B01-UST-NTU-23060001 Page 5 of 40	Discrepancy between BOQ and drawing.	<ol style="list-style-type: none"> <u>Drawing 23060001 / GENERAL PLAN AND CROSS-SECTION FOR OPERATION</u> <p>Note 2. of the drawings stipulated that “fence/partition wall are in scope of E1 Contractor”.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Note: 1. The notation in the figure shall be expressed in mm unless otherwise indicated. 2. The cable rack, cable trough and fence/partition wall are in scope of E1 Contractor.</p> </div> <p>However, BOQ 515 a). has not been omitted in Addendum 4.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">515</td> <td style="width: 65%;">Miscellaneous works</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">a)</td> <td>Providing & fixing fence including MS doors with hinges, bolts, nuts, stoppers, handles, locking arrangements, welding including between Adit tunnel & main tunnel in accordance with the Specification and the Drawings.</td> <td style="text-align: center;">Nos.</td> <td style="text-align: center;">1</td> <td></td> </tr> </table> <p>Please provide the correct information.</p>	515	Miscellaneous works				a)	Providing & fixing fence including MS doors with hinges, bolts, nuts, stoppers, handles, locking arrangements, welding including between Adit tunnel & main tunnel in accordance with the Specification and the Drawings.	Nos.	1		BOQ Item No 515 (a) as shown in Drawing No TD-JIC-IC1-TDC-B01-UST-NTU-23320000 is in the scope of C-2 Contractor. Fence/partition wall mentioned in note 2 of the Drawing no. TD-JIC-IC1-TDC-B01-UST-NTU-23060001 pertains to the fence/partition wall for electric cables in the Adit which is not in the scope of C-2 Contractor.
515	Miscellaneous works														
a)	Providing & fixing fence including MS doors with hinges, bolts, nuts, stoppers, handles, locking arrangements, welding including between Adit tunnel & main tunnel in accordance with the Specification and the Drawings.	Nos.	1												



Sl. No	Document	Page no / Clause No.	Provisions as Per-Bidding Documents/Subject/Title/Item as mentioned by the Bidder	Bidder Query	Employer's Reply
23.	Part 2 Section VI – 3	Drawing from Addendum 4 TD-JIC-IC1-TDC-B01-UST-NTU-23420000 (Page 28 of 40)	<u>Adit Tunnel Portal</u> Dimension discrepancy at Retaining Wall Type A.	Please provide the correct information.  The drawing shows a cross-section of a retaining wall. Key features include: a base plate for the boundary wall, anchor bolts embedded in concrete, 60 THK stone lining, a 2000x2000 drain, and 50MM Ø PVC pipes for drainage. Reinforcement includes 12T @ 125MM C/C and 10T @ 125C/C. Dimensions include a total width of 4200mm and a height of 1500mm. The drawing is labeled 'RETAINING WALL TYPE A'.	Refer Addendum No. 6 Item No. 1, Drawing No. TD-JIC-IC1-TDC-B01-UST-NTU-23420001.
24.	Part 2 Section VI - 3	Drawings from Addendum 4 TD-JIC-ICI-TDC-B01-UST-NTU-20490003 and 20500002	<u>Main Tunnel Portal</u> Clarification of site dimension	Dimension B6 to B6A is 56.82m as shown in drawing 20490003 but is 56.99m in drawing 20500002. Please clarify.	Refer Addendum No 7 Item No 1.
25.	Part 2, Section VI-1, Division 06000, Sub-Division 06010, Sub- & Addendum 4 Item 11	Clause 3.1, Page 5 of 51	Acquisition of Additional land	In relation to Item No. 11 of Addendum No.4 provided on 7 th August 2019, we appreciate your efforts to obtain the permission to use 1.36 ha land on temporary basis adjacent to Shaft-3 ROW. However, we would like to follow up on our query from Item No.4 of Clarification No. 11, requesting to please provide the plan drawing showing the exact site location and dimensions of 1.36ha land to assist us in our planning of the temporary site usage because currently only the area is available, and the location of the land is unknown.	Refer Addendum No 7 Item No 11. Plan drawing showing the location of land for temporary use will be provided after award of the Contract.
26.	Part 2, Section VI-1, Division 06000, Sub-	Clause 3.1 & 3.2	Negotiation for the land acquisition of the Contractor's Temporary Construction Yard	It is stipulated that "The Contractor shall be solely responsible for acquiring any additional land (land in addition to the Site) required by him for his	The condition(s) of Bidding Documents shall remain

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	Division 06010, Sub-	Page 5 of 51		<p>Temporary Works areas outside the ROW, at his own expense, including maintaining and reinstating the same on completion of the Works to the entire satisfaction of the land owner and the Engineer.”</p> <p>It is also stipulated that “The Contractor shall make the necessary arrangements with land owners and relevant government authorities for any work to be undertaken outside the Site.”</p> <p>In this regard, the required area of Temporary Construction Yard at Shaft 3 to be provided for our use to accommodate our Temporary Facilities is about 77,000 m2. This is a State Government owned property belonging to MIDC, but the tenant who is the Land user is from the Private Sector.</p> <p>Unfortunately, the Land user is not willing to negotiate with the Bidder for temporary usage of land. Therefore, the Bidder is unable to do their cost estimation. As such, in addition to your effort to obtain the permission to use 1.36ha of land, we would like to request the Employer to acquire above total required area of the land around Shaft 3 for the use as Temporary Construction Yard and allow the successful bidder to use the land without charge.</p> <p>If such arrangement is not possible, for the purpose of our pricing, could we request the Employer together with MIDC to obtain agreement of Land user for the communication with the Bidder in acquiring this land area? (Ex: to issue the official letter, together with MIDC, to the Land user to request for communication with the Bidder.). For such arrangement, we would require the charge to be treated as a provisional sum item.</p> <p>Please confirm.</p>	unaltered.
27.	Part 2, Section VI-1, Division 06000, Sub-Division 06060, and Part 2 Section VI-4 Reference	Page 35 and 36 of 51 & Pages 2 and 3 of 50	Indian Navy colony and godown area Existing underground utilities	<p>Along the tunnel route of TBM 1, from Chainage 2550 to 3700, TBM will be excavating below an Indian Navy colony and godown area.</p> <p>Being Navy area, it will be out of bounds for the investigation, but it is expected that there are various existing important underground utilities such as cable, gas line and water pipeline along and across the tunnel route. This area is said to be restricted and we will not able to do a general survey and GPR to know the status of the existing underground utilities below the Indian Navy colony and godown area.</p>	The Contractor is required to carry out detailed building survey in this area before starting the work of tunnelling. However, the Employer will assist the Contractor to obtain permission from naval authority.

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	Information/Reports Att.5 - Field Survey Report A. Building Survey Report			Please clarify whether we do not have to do such survey, or are we able to perform under certain conditions. If it is the latter, please clarify the conditions.	
28.	VI-4, Works Requirements (Reference Information Report) Attachment 1- Geotechnical Survey Report: A. Main Report Vol 1 of 7		Boreholes requirement of Backfilling	Based on the Geotechnical Survey Report, there were 69 boreholes that have been carried out for ground investigation. We assume that all boreholes are properly backfilled. Please confirm. Please also clarify the prescribed method of backfill.	The boreholes have been plugged using mixture of sand and cement.

