

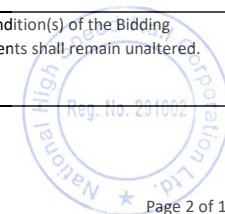
Project	Design and Construction of Civil and Buildings Works including Testing and Commissioning on Design-Build Lump Sum Price basis for Double Line High Speed Railway for Mumbai Underground Station, Cut & Cover Tunnel and Shaft -1 from MAHSR Km. -0.255 to Km. 0.775 at Bandra-Kurla Complex in the State of Maharashtra for the Project for Construction of Mumbai-Ahmedabad High Speed Rail
Package No.	MAHSR - C - 1

Response to Bid Queries (Set- 1) - Date: 07.02.2020

S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response
1	Part-1, Secn. II (Bid Data Sheet) and Secn. IV (Bidding Forms)	5 of 34, Cl. No.ITB 21.1 and 100 of 101, Form of Bid Security	Bid Security- The amount and currency of the Bid Security shall be INR 220,000,000/-	1. What is the Bank criteria for arranging BG & whether BG issued by Schedule bank notified by RBI / Guarantee Bond issued by Financial Institutions like EXIM Bank of India is acceptable. 2. Please confirm if individual JV / Consortium Partners can submit the EMD individually in the name of JV / Consortium.	1. The Condition(s) of the Bidding Documents shall remain unaltered. 2. Please refer Clause 21.7, Section I, ITB.
2	Part-3, Secn. VIII	6 & 19 of 67, Cl. No. 4.2	Performance Security- The performance security shall be in the form of a demand guarantee in the amount (s) of 5% (Five percent) of the accepted contract amount and in the same currencies of the accepted contract amount.	What is the Bank criteria for arranging BG & whether BG issued by Schedule bank notified by RBI / Guarantee Bond issued by Financial Institutions like EXIM Bank of India is acceptable?	Guarantee Bond issued by Financial Institutions like EXIM Bank is not acceptable. The Condition(s) of the Bidding Documents shall remain unaltered.
3	Part-3, Secn. VIII	6 & 29 of 67, Cl. No. 14.2	Advance Payment- The Advance Payment shall be 10% of Accepted Contract Amount (excluding Provisional sum), Interest free, Two Instalments. The Advance payment will be released on submission of BG for an amount equivalent to the amount of the advance payment and such Bank Guarantee can be split into six guarantee to be released on repayment.	What is the Bank criteria for arranging BG & whether BG issued by Schedule bank notified by RBI / Guarantee Bond issued by Financial Institutions like EXIM Bank of India is acceptable?	Guarantee Bond issued by Financial Institutions like EXIM Bank is not acceptable. The Condition(s) of the Bidding Documents shall remain unaltered.
4	Part-3, Section VIII	38 of 67, Cl. No.18.2	Insurance for Works and Contractor's Equipment	1. For Equipment coverage , all the Plant & Machinery assigned to this project will be covered under Umbrella Contractors Plant and Machinery policy. 2. Employer's on all our other projects have accepted the Umbrella Policy. It is expected that the Owner will have no objection.	The Condition(s) of the Bidding Documents shall remain unaltered.
5	Part-3, Section VIII	38 of 67, Cl. No.18.4	Insurance for Contractor's Personnel	1. For Workmen Compensation coverage , all the Workmen's assigned to this project will be covered under Umbrella Workmen Compensation policy. 2. Employer's on all our other projects have accepted the Umbrella Policy. It is expected that the Owner will have no objection.	The Condition(s) of the Bidding Documents shall remain unaltered.
6	Part-3, Section VIII	7 of 67, Cl. No. 18.4(d)	Maximum amount of deductibles for insurance of the Employer's risks	Deductibles offered for Act of God (AOG) cover under CAR policy is generally worded as "10% of claim amount subject to minimum of". In such case flat deductible of Rs. 60,00,000 may not be offered by Indian insurers.	The Condition(s) of the Bidding Documents shall remain unaltered.

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7	Part-3, Section VIII	7 of 67, Cl. No. 18.1	Periods for Submission of Insurance	Timeline for submission of insurance policies should be 28 days , as it is a project of very high value and therefore would require reinsurance (foreign reinsurers) arrangements to be put in place and would request to increase the time limit for finalisation and submission of policy.	The Condition(s) of the Bidding Documents shall remain unaltered.
8	Part-1, Section IV Bidding Forms	8 & 10 of 101 , Cl. No. 1.1 Schedule of Adjustment Data / Table A and Table B	Table A and Table B provides the coefficients / details to be used for local and foreign currency respectively.	Escalation Components range as per the tender may not be realistic with respect to the project Cost, hence Contractor be permitted to quote the components.	The Condition(s) of the Bidding Documents shall remain unaltered.
9	Part-3, Section VIII	21 of 67, Cl. No. 4.25	Milestone - The Engineer shall within 28 after receiving the Contractor's notice: (a) issue the Milestone Certificate to the Contractor	For further notice what will be the certifying period by the Engineer ?	The Condition(s) of the Bidding Documents shall remain unaltered.
10	Part-3, Section VIII	21 of 67, Cl. No. 4.25	Milestone - If the Engineer fails either to issue the Milestone Certificate or to reject the Contractor's application within the above period of 28 days...the Milestone Certificate shall be deemed to have been issued on the date which is 14 days after the date stated in the Contractor's notice of application.	Once the Milestone Certificate is issued and 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 Defects Notification Period. If required to be remedied then time and cost will be to the account of Employer . Please confirm.	The Condition(s) of the Bidding Documents shall remain unaltered.
11	Part-3, Section VIII	5 of 67, Cl. No. 1.1.3.7	Defects Notification Period	Defects Notification Period should be 365 days.	The Condition(s) of the Bidding Documents shall remain unaltered.
12	Part-3, Section VIII	6 & 19 of 67, Cl. No. 4.2	In the event the Contractor fails to provide the Performance Security within 28 days from the date of issue of the LOA....on paymentof damages for such extended period in a sum calculated at the rate of 0.005% of the Accepted Contract Amount.	Calculation for Damages should be with respect to Accepted Contract Amount. However, Damages should not be applicable since EMD / Bid Security already available with the Employer till such time Performance Security submitted.	The Condition(s) of the Bidding Documents shall remain unaltered.
13	Part-3, Section VIII	29 of 67, Cl. No. 14.1 (b)	Contractor's Equipment including essential spare parts imported by the Contractor for the sole purpose of executing the Contract, shall be governed by the prevailing Laws in this regard.	We understand that Provisions of clause 13.7 will be applicable to this newly added paragraph as well.	The relationship between Sub-Clause 14.1 and Sub-Clause 13.7, PC, Part B, Section VIII is self-explanatory.
14	Part-3, Section VIII	8 of 67, Cl. No. 20.6	Place of Arbitration - New Delhi, India	The Place (Seat) of Arbitration should be Mumbai.	The Condition(s) of the Bidding Documents shall remain unaltered.
15	General	General	Land for Contractor's Facilities	As per the Ortho map, no ROW is available beyond secant piles. BKC being busy area, vehicles parking on the road is not allowed. Unless construction area beyond ROW is allocated for setting up Batching Plants, vehicle movement etc., construction is not feasible. So we request Client to provide adjacent land for contractor's facilities and installations.	The Condition(s) of the Bidding Documents shall remain unaltered.
16	General	General	Land for muck disposal	We request that the Client to provide the land for disposal of muck.	The Condition(s) of the Bidding Documents shall remain unaltered.
17	General	General		PL give AutoCAD drawings or Digital PDF drawings as present scan pdf drawings are not legible.	AutoCAD drawings cannot be provided at this stage. New folder of clear PDF files of all the Drawings maybe downloaded for reference by the Bidders through the link provided.
18	Part-3, Section VIII	6 of 67, Cl. No. 6.5	Normal working hours	Client to give permission for 24X7 working, traffic permission and blasting permission. Kindly confirm.	Refer Sub-Clause 6.5, Part B, Section VIII.
19		General point for ITB 21.1	Bid Security Deposit/ EMD: 01% of estimated cost	Looking to the current postion of the banking sector,we request you to reduce the amount of bid security to 0.5% of the estimated cost of work instead of 1%. This request is already being accepted in all the tenders of MMRDA, Mumbai Metro, DMRC etc.	The Condition(s) of the Bidding Documents shall remain unaltered.

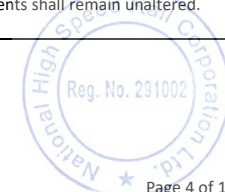


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20		General point	Land for Sub Site Office	We request you to provide the land for the establishment of site offices, Stacking yard, Batching plants, aggregate storage, Labour camp, sub site offices near to the location of the work site at free of cost.	The Condition(s) of the Bidding Documents shall remain unaltered.
21		Cl. No. 1.1.3 Pg No. 2 of 7	Section VI-2. Employer's Requirements (Design Requirements and Criteria) The Contractor shall be responsible for the entire detailed design (except for the Structural Design as included in the Employer's Requirements) of the Works and shall ensure that his design is accurate and in compliance with the Contract.	We presume that structural design and drawings is not in Contractor's Scope. Pls clarify whether the contractor are allowed to modify the structural design and drawings given in the tender document within the NIT parameters at the time of execution of work depending upon site conditions.	Refer to Sub-Clause 1.3 of GS 05010.
22		Cl. No. 1.1.3 Pg No. 2 of 7	Section VI-2. Employer's Requirements (Design Requirements and Criteria)	As detailed design and drawing is provided in the tender document by client, we presume that only work construction programme, Construction Methodology is to be submitted as technical submission and design and drawing is not required to be submitted at the time of tender submission. Please confirm	Refer to Sub-Clause 3, Section IV, Part 1 of the Bidding Documents.
23		Cl. No. 2.3.2 (2) Pg. No. 28 of 40	Section VI-1 - 06060 Utilities and Facilities 2.3.2 (2) The trial trenching, arrangements and working methods to be employed in respect of such Uncharted Utilities which warrant removal/ relocation/ shifting/ diversion, including proposed protection measures, reinstatements in consultation with utility owner shall be done within 56 days after Handing Over of the Site by the Employer.	56 days time period provided seems to be very low, we request you to increase the time period for atleast 90 days.	The Condition(s) of the Bidding Documents shall remain unaltered.
24		Cl. No. 1.1 Pg. No. 9 of 40	Section VI-1 Surveys and Setting-Out The Contractor shall plan and programme for the validation of any Site data provided by the Employer and develop a Survey Plan and Programme. The Contractor shall submit a Survey Plan and Programme to the Engineer for consent within 28 days after the Commencement Date	We request you to modify the time period for atleast 60 days from the Commencement Date.	The Condition(s) of the Bidding Documents shall remain unaltered.
25		Cl. No. 1.1.3.7 Pg. No. 5 of 67	Defects Notification Period - 730 Days	We request you to reduce the DNP for 365 Days, as per the regular DNP period followed in all DMRC projects	The Condition(s) of the Bidding Documents shall remain unaltered.
26		Cl. No. 14.3 (C) Pg. No. 6 of 67	Percentage of Retention - 10%	Considering the present contracts and current banking system, we request for deduction of retention @ 5% from each IPC to maintain cash flow.	The Condition(s) of the Bidding Documents shall remain unaltered.
27		Cl. No. 18.1 Pg. No.7 of 67	Periods for submission of insurance: a. evidence of insurance.- 14 days from the Commencement Date of Works. b. relevant policies -28 days.	We request you to modify the Clause as follows a. evidence of insurance.- 28 days b. relevant policies - 56 days.	The Condition(s) of the Bidding Documents shall remain unaltered.
28		General point	Equipment Advance	We request to give equipment advance upto 10% of contract value against Bank Guarantee.	The Condition(s) of the Bidding Documents shall remain unaltered.
29	Employer's Requirement (General specifications)	Pg 10 of 10 , Cl 7	Mandatory Approvals from concerned Authorities- In cases for which the Employer has initiated the process , the Contractor shall undertake further action on 'as and where basis', for obtaining clearance/approval/no-objection from concerned authorities.	We request NHSRCL to provide bidders status of any such initiated correspondence with the concerned authorities.	The Condition(s) of the Bidding Documents shall remain unaltered.

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30	Employer's Requirement (General specifications)	Pg 11 of 30 , Cl 2	The Contractor shall undertake the necessary Geological and Geotechnical investigation for all civil works except for which the Structural Design has been included in the Employer's Requirements.	For structural design provided by employer we presume that any variation on account of change in Geotechnical data shall be payable to the contractor. Please confirm.	The Condition(s) of the Bidding Documents shall remain unaltered.
		Pg 2 of 36 , Cl 1.3.1	Structural Design is defined as a detailed design and drawings for the civil structural component of Permanent Works provided by the Employer to satisfy the project specific requirements. The Structural Design has been provided for the following components: a) Underground rigid frame structures having walls, slabs, beams, columns, ribs, haunches for all levels of UG Station which is integrated with IFSC building; b) Cut & Cover Tunnel; c) Shaft-1; d) Ventilation shaft structures (2 Nos.); and e) RCC structure of West Entry & Exit Structure, which is integrated with IFSC building		
31	Employer's Requirement (General specifications)	Pg 2 of 36 , Cl 1.2	The design information provided under the Employer's Design is unique to this package. It includes Drawings (i.e. Structural Design, Basic Design),	Request NHSRCL to provide Auto CAD copy of these drawings.	AutoCAD drawings cannot be provided at this stage.
32	Employer's Requirement (General specifications)	Pg 10 of 10 , Cl 6.2.1	The access to C-2 contractor shall be for the retrieval of TBM.The Contractor shall be required to provide opening (on C-2 Package side) of appropriate size as required by the C-2 contractor. The Contractor shall make suitable arrangement of temporary supports (steel struts, waler beams, columns, etc.) to Shaft-1. The maximum load of any component of TBM that is to be handled/lifted shall be 300 tonnes	Request to specify the size of opening to be provided for C2 contractor as bidders can plan properly for temporary works like steel truss, waler beams , columns etc.	Refer to Appendix 04000-1 of GS 04000.
33	Employer's Requirement (General specifications)	Pg 6 of 20 , Appendix 04000-1 Chapter III - Interface table Sr no.3	C2 shall furnish details of maximum loading caused by TBM removal at shaft 1 and C1 shall check adequacy of design of shaft 1 and make necessary temporary arrangements as per requirement.	We understand that the maximum load of any component to be handled / lifted shall be 300 tonnes for bid stage design . Kindly confirm.	Refer to Sub-Clause 6.2.1 of GS 01020.
34	Employer's Requirement (General specifications)	Pg 10 of 10 , Cl 6.2.2	The Contractor shall provide a clear opening (towards Cut & Cover tunnel side) of appropriate size as required by the T-1 contractor with steel struts waler etc for lowering 25 m long rails, flash butt welding plant, rail laying car, concrete equipments, track slab laying carts. This opening may also be utilized by E1 contractor for lowering his equipments/ material	Request to specify the size of opening to be provided for T1 contractor as bidders can plan properly for temporary works like steel truss, waler beams , columns etc.	Refer to Appendix 04000-1 of GS 04000.
35	Employer's Requirement (General specifications)	Appendix 2	Drawing for backfill concrete behind shaft wall beyond Ch 762.669	Shaft 1 is to be used by C2 contractor for TBM 1 retrieval .The drawing for shaft wall (Appendix 2) is indicating M20 concrete is to be backfilled behind the shaft face from which TBM is to be retrieved. We understand that TBM will bore through this backfill concrete before breakthrough of shaft permanent wall for retrieval Kindly confirm.	Refer to Items 3 & 4 of Chapter III (1) of Appendix 04000-1 of GS 04000.
36	Part 3, Section VIII, Particular Conditions (PC), Page 5 of 67	Sub-Clause 1.1.3.7 Defects Notification Period	730 days	We request to reduce the DNP from 730 days to 365 days.	The Condition(s) of the Bidding Documents shall remain unaltered.
37	Part 3, Section VIII, Particular Conditions (PC), Page 6 of 67	Sub-clause 14.2 Total Advance Payment	10% (ten percent) of the Accepted Contract Amount (excluding the Provisional Sum) payable in the currencies and proportions in which the Accepted Contract Amount is payable.	We request to increase the advance from 10% to 15%	The Condition(s) of the Bidding Documents shall remain unaltered.

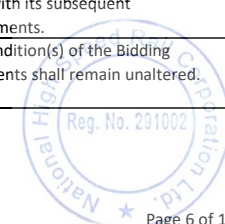


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38	Part 3, Section VIII, Particular Conditions (PC), Page 6 of 67	Sub-clause 14.2 Total Advance Payment – P&M	NA	This project requires large number of equipment to be mobilized for the project execution. We request to provide interest free P&M advance of 5% of the contract value	The Condition(s) of the Bidding Documents shall remain unaltered.
39	Part 3, Section VIII, Particular Conditions (PC), Page 7 of 67	Sub-clause 14.5 Plant and Material	NA	We request to provide 5% of Contract Value as Material Advance.	The Condition(s) of the Bidding Documents shall remain unaltered.
40	Part 3, Section VIII, Particular Conditions (PC), Page 7 of 67	Sub-clause 14.3(c) Percentage of Retention	10% (ten percent)	As we are providing 5% of contract value as Performance Bank Guarantee, request to delete this clause as it will affect the project cash flow during construction. In various UG Projects under DMRC, CMRL, BMRL there is no retention clause. Please confirm.	The Condition(s) of the Bidding Documents shall remain unaltered.
41	Part 3, Section VIII, Particular Conditions (PC), Page 7 of 67	Sub-clause 14.3(C) Limit of Retention money	3% (Three percent) of the Accepted Contract Amount, less Provisional Sums, if any	As we are providing 5% of contract value as Performance Bank Guarantee, request to delete the retention clause.	The Condition(s) of the Bidding Documents shall remain unaltered.
42	Part 3, Section VIII, Particular Conditions (PC), Page 16 of 67	Sub-Clause 2.1 Right to Access to the Site	If the Employer fails to give any such right to access or possession within specified time, the Contractor shall give notice to the Employer and shall be entitled to a payment for Cost, including profit, of INR 2,500 (Indian Rupees Two Thousand Five hundred) for damages due to delay per day for every 100 Square meter subject to a maximum amount of INR 50,000,000 (Fifty Million). For any area less than 100 square meter, the payment for cost of damage due to delay shall be calculated on pro-rata basis.	In case of delay in providing access to and possession of work areas/site by the Employer to the contractor, the contractor will incur losses in terms of additional cost and time. The compensation on account of damage for delay in handing over of site does not completely compensate the contractor. Hence, it is requested to modify the clause so that compensation is provided to contractor as per the actual expenses.	The Condition(s) of the Bidding Documents shall remain unaltered.
43	Part 3, Section VIII, Particular Conditions (PC), Page 16 of 67	Sub-Clause 2.1 Right to Access to the Site	Land Acquisition	1. Kindly share the status of land acquisition for this project. 2. Kindly share the status of the demolition of buildings for this project.	The Condition(s) of the Bidding Documents shall remain unaltered.
44	Part 3, Section VIII, Particular Conditions (PC), Page 17 of 67	Sub-Clause 2.2 Permits, Licenses or Approvals	The Employer shall provide.....removed from site.	We request Employer to take up the responsibility of getting approvals, permits or licenses. We also request cost and time compensation in case of delay caused due to this, which is not attributable to the contractor.	The Condition(s) of the Bidding Documents shall remain unaltered.
45	Part 3, Section VIII, Particular Conditions (PC), Page 35 of 67	Sub-clause 16.2 Termination by Contractor	Whole Clause	In case the contract is terminated by Contractor as per the provisions defined in the contract, the Employer to compensate the contractor with cost of damages incurred by the Contractor on actual basis, due to the termination of contract. Please clarify.	The Condition(s) of the Bidding Documents shall remain unaltered.
46	Volume I; Section VII. General Conditions (GC); FIDIC Conditions of Contract	Clause 1.8 Care and Supply of Documents	If a Party becomes aware of an error or defect of a technical nature 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.	In case if the technical error or defect is substantial, the contractor shall be allowed for suitable time and cost compensation. Please consider to provide appropriate provision in the contract.	The Condition(s) of the Bidding Documents shall remain unaltered.
47	Volume I; Section VII. General Conditions (GC); FIDIC Conditions of Contract	Clause 4.15 Access Routes	The Contractor shall be deemed to have been satisfied as to the suitability and availability of access routes to the Site. The Contractor shall use reasonable efforts to prevent any road or bridge from being damaged by the Contractor's traffic or by the Contractor's Personnel These efforts shall include the proper use of appropriate vehicles and routes.	We request employer to provide encumbrance free access to ROW. In case of any delay in providing the access to ROW, suitable Cost and time Compensation to be provided to the contractor.	The Condition(s) of the Bidding Documents shall remain unaltered.
48	Volume I; Section VII. General Conditions (GC); FIDIC Conditions of Contract	Clause 4.18 Protection of the environment	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 and other results of his operations.	Protection of Environment shall be limited to within site premises only as the contractor could not be held responsible for Environmental impacts outside the site locations. Please modify the clause accordingly. Also please provide a copy of MoEF and other clearances to note the restrictions and procedures.	The Condition(s) of the Bidding Documents shall remain unaltered.

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49	Volume I; Section VII. General Conditions (GC); FIDIC Conditions of Contract	Clause 4.22 Security of the Site	Unless otherwise stated in the Particular Conditions: (a) the Contractor shall be responsible for keeping unauthorised persons off the Site, and (b) authorised persons shall be limited to the Contractor's Personnel and the Employer's Personnel; and to any other personnel notified to the Contractor, by the Employer or the Engineer, as authorised personnel of the Employer's other contractors on the Site.	Request to consider sharing of various cost incurred by contractor in case the services are used by other interface contractors such as designated system contractor, track contractor, etc	The Condition(s) of the Bidding Documents shall remain unaltered.
50	Volume I; Section VII. General Conditions (GC); FIDIC Conditions of Contract	Clause 8.5 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 sub-paragraph (b) of Sub-Clause 8.4 [Extension of Time for Completion].	For the failure or delay by the Employer, we request Employer to provide both cost and time compensation to the contractor. Please consider.	The Condition(s) of the Bidding Documents shall remain unaltered.
51	Volume I; Section I. Instructions to Bidders; Page: ITB 3	2.3 Source of Funds	The above Loan Agreement will cover only part of the project cost. As for the remaining portion, the Borrower will take appropriate measures for finance.	Since the loan has been partly availed from JICA, Please clarify whether Balance source of funding arranged?	It is confirmed that necessary financial arrangement has already been made to ensure payment to the Contractor.
52	Volume I; Section VIII. Particular Conditions (PC); Part-A Contract Data; Page: 5 of 67	1.1.2.4& 1.3(b) Engineer name and Address	To be Appointed	Kindly confirm the timelines of the appointment of the Engineer.	The Engineer's name and address will be notified to the Contractor by the Commencement Date.
53	Volume I; Section VIII. Particular Conditions (PC); Page: 14 of 67;	1.4 Law and Language	The Contract shall be governed by the law of the country or other jurisdiction stated in the Contract Data.	Request employer to provide Jurisdiction of court, since it is not mentioned in the Contract Data.	The Condition(s) of the Bidding Documents shall remain unaltered.
54	Volume I; Section VIII. Particular Conditions (PC); Page: 16 of 67;	1.13 Compliance with Laws	The Contractor shall, in performing the Contract, comply with applicable Laws. Unless otherwise stated in the Particular Conditions: (a) the Employer shall have obtained (or shall obtain) the planning, zoning or similar permission for the Permanent Works, and any other permissions described in the Employer's Requirements 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 (b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licenses and approvals, as required by the Laws in relation to the design, 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.	Please provide the status of approvals/clearances to be obtained by the employer and also the copies of the statutory approvals if available. Please provide the list of approvals/clearances to be obtained by the Contractor	The Condition(s) of the Bidding Documents shall remain unaltered.
55	Volume I; Section VIII. Particular Conditions (PC); Page: 6 of 67	6.5 Working Hours	Working hours from 8:00 AM to 5:00 PM	We request the client to allow the contractor for the round the clock shift working hours.	Refer Sub-Clause 6.5, Part B, Section VIII.
56	Volume I; Section VIII. Particular Conditions (PC); Page: 44 of 67;	20.6 Arbitration	If the contract is with a foreign contractor or with a joint venture, consortium or association which one or more than one foreign company join, international arbitration with proceedings administered by the International Chamber of Commerce (ICC) and conducted under the ICC Rules of Arbitration. If the Contract is with a domestic contractor or domestic contractors, arbitration with proceedings conducted in accordance with the Laws of the Employer's country.	Request the employer to mention "Arbitration and Conciliation Act 1996 and its Amendments further" as the Rules of Arbitration.	If the Contract is with a domestic contractor, the Arbitration shall be conducted in accordance with Arbitration and Conciliation Act 1996 along with its subsequent amendments.
57	General	Bank Guarantee		Request the client to allow the contractor to obtain BG's from Foreign banks as Indian banks are under severe NPA's and tightening of Exposure framework, Single Borrower limit & Group Borrower limits.	The Condition(s) of the Bidding Documents shall remain unaltered.

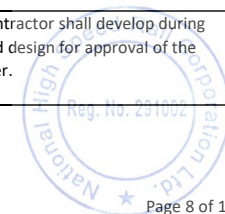


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58	Part 2 - Section VI-2 Employer's Requirements (Design Requirements and Criteria), Division 05010	Cl 1.1, pg. 4 of 43 Finishes for Cut & Cover tunnel and Shaft-1	Finishes of Cut & Cover Tunnel and Shaft-1 are also within the scope.	Please specify the internal finishes for shaft-1.	Please refer Drawing Nos. BD-JIC-C14- DRW-S01-STA-NTU-1201 , 1202, 1203, 1204, 1205 & 1206 (FINISHING SCHEDULE) for Shaft-1
59	- General-	- General-		No provision for PSD (platform screen doors) has been mentioned neither in the SOD nor in the drawings. Please confirm if the station design does not have PSD and if future provision is to be provided.	PSD is not in the scope of this Package. However, it is to be provided in future and provisions for placing cables etc. are to be made in the detailed design and execution. Also refer Addendum No. 1 Item No. 18.
60	Part 2 - Section VI-2 Employer's Requirements (Design Requirements and Criteria), Division 05010	Cl 2.3.2.b, pg. 20 of 43 Smoking room	vi) A smoking room shall be provided in paid concourse for passengers.	Smoking room for passengers has not been shown in the paid concourse in the drawings. Please clarify the location and details for passenger Smoking room. Smoking room may not be required as waiting time is less and also extraction and ventilation may be complex in an underground station. Please clarify if required.	Refer Drawing No. BD-JIC-C14-DRW- S01-STA-NTU-02222, smoking room has been shown at grid X-19 & Y1.
61	Part 2 - Section VI-4 Employer's Requirements (Drawings)	All plans and cross sections Station - Double wall arrangement for drainage of seepage water.	As per the architectural layouts, it is understood that " Drain and wall access panel should be provided inside the double wall assembly".	Please clarify if the double wall are AAC blockwork or burnt clay brickwork. Please clarify the finish for these double walls	The Contractor shall develop during detailed design for approval of the Engineer.
62	BD-JIC-C14-DRW-S01-STA- NTU-03002-000 & 03003- 000	Door and Window Schedule	As per the table heading given in this drawing, it is mentioned "QUANTITY (NOT INCLUDE NIC)	Please clarify if these doors are included in the scope of this contract.	Refer Addendum No. 01 Item No. 41.
63	Part 2 - Section VI-2 Employer's Requirements (Design Requirements and Criteria), Division 05010	Cl 3.11, pg. 37 of 43 Artwork and Advertising	The artwork and advertising are not in the scope of work of this package. The Contractor shall make provisions for power source, fixing support, conduit, concealed wiring and maintenance access for advertising media, whether or not the media is installed at the time of Taking Over of the Station.	It is understood that the installation is to be done by the contractor. Please clarify if the employer will be providing all necessary materials for the installation of the advert panels. Is there any minimum space / area (in terms of sq.m. of advertising area required that needs to be allotted for advertising? Is there any preferred surface for placing the adverts (eg. Suspended from ceiling, wall mounted)?	Installation of the artwork and advertising is not in the scope of this Package. The Contractor shall propose the space for the artwork and advertising as per the Employer's Requirements for the Engineer's approval.
64	- General-	- General-		Specifications for finishes for the soffit of the slab and the wall area above the false ceiling (such as sealer coat) have not been mentioned. Specifications for the same to be provided.	Finishing is not required at the soffit of the slab. However, regarding the wall, wall finishes (other than plastering) shall be provided up to 100 mm above the false ceiling level. For Plastering, refer DRC 5010 Sub-Clause 3.12.5 (c). If walls constitute part of fire compartment, fire rated finishing shall be provided till structural slab soffits.
65	Part 2 - Section VI-3 Employer's Requirements (Technical Specifications), Division 05010	Cl 4, pg. 10 of 60 Wall work	4.1. Autoclaved Aerated Concrete (AAC) Blockwork 4.2. Burnt Clay Bricks	As per the technical specifications, AAC Blockwork and Burnt Clay Bricks have been given as the wall materials. Please specify which walls are to be of AAC blockwork and which is to be brickwork?	The Contractor shall developed as per the Employer's Requirements during detailed design for approval of the Engineer.

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S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response
66	Part 2 - Section VI-2 Employer's Requirements (Design Requirements and Criteria), Division 05010	Cl 1.3.3.c, pg. 6 of 43 Drinking water provision	v) Adequate size and number of passenger toilets shall be provided with facilities like nursery, diaper change room and drinking water outlet.	Drinking water outlet has not be shown in the station drawings at any of the levels. What is the source for this water? The position, the layout/specifications, and other details of the same to be provided.	The Contractor shall develop during detailed design for approval of the Engineer. For water source, refer Clause 2 of DRC 05050. Also, refer Addendum No. 01, Item No. 19.
67	Part 2 - Section VI-4 Employer's Requirements (Drawings)	Finish Schedule Interior		Please specify interior material finishes for all janitor rooms.	The Contractor is to propose suitable finishes to meet the functional requirements.
68	Part 2 - Section VI-4 Employer's Requirements (Drawings)	Janitor room		Please clarify the function of the floor hatch provided in all janitor rooms.	The floor hatch is to be provided to access the floor pit below the toilets for maintenance.
69	Part 2 - Section VI-2 Employer's Requirements (Design Requirements and Criteria), Division 02000	Cl 1.1.2, pg. 3 of 30 Integration with IFSC building	"The cut-and-cover structure of UG Station (integrated with IFSC building)..."	IFSC building connection not been indicated in the architectural drawings. Please indicate the proposed location of the IFSC building. Is there any other architectural concern that needs to be accounted for (considering future connectivity)?	The required details for the IFSC building and scope have been indicated in the Employer's Requirements, including various Drawings.
70	BD-JIC-C14-DRW-S01-STA-NTU-01206-000	Specification for Granite Finishes Finish Schedule Interior - 5	Granite Stone ST-01 Description: T=30, Honed/Leather Frame Finish Remarks: Honed Finish/ Leather Frame finish: Design by contractor, Granite Stone 1:90%, Granite Stone 2: 5%, Granite Stone 3: 5%	Please clarify of the different percentage of granite stone 1,2 & 3 refer to different types of finishes or different colours of granite. If it refers to the proportion of finishes, please specify which percentage refers to which finish. Also, only two types of finishes (honed/ leather frame) have been mentioned. Please specify the third type of stone finish also.	Refer Addendum No. 01 Item No. 27.
71	BD-JIC-C14-DRW-S01-STA-NTU-01206-000 & BD-JIC-C14-DRW-S01-STA-NTU-06004-000	Finish Schedule Interior – 5 & Public Area Material Plan Wall - 4 Wall combination – material specifications	A.As per table: Wall combination A: Description: Glass Wall/Stainless Steel Panel/ Polished Granite Stone Remarks: Combination Ratio: 25%, 25%, 50%, Design by contractor B.As per drawing legend: Polished Granite Stone B2F: Wall combination - A	Why does the legend in the drawing specifically refer to granite stone alone? Please clarify where the other two materials mentioned (glass wall and steel panels) in the wall combination are to be used.	Refer Addendum No. 01 Item No. 41.
72	BD-JIC-C14-DRW-S01-STA-NTU-02101-000 & BD-JIC-C14-DRW-S01-STA-NTU-02103-000	Elevation-1 & Elevation-3 Louver Fixing	A.According to the drawings, louvers have been indicated in the elevation of the ventilation shafts 1 & 2 and entrances behind the Perforated Aluminium Panels and decorative cast aluminium panels. In some cases the aluminium panels/ steel panels are shown projected from the main wall	A.Since these louvers have not been shown in any of the plans, it is not clear what their locations and sizes are. Please clarify the fixing arrangement of these louvers behind the panels and their sizes B.Please clarify the fixing arrangement of these panels. Is there a separate substructure/ building envelope that is to be formed over the main wall?	A.The size of the louver shall be designed, in consideration of Fresh Air and Exhaust Air, by the Contractor during detailed design phase. For location, refer BD-JIC-C14-DRW-S01-STA-NTU-02101-000, 02102-000, 02103-000. B.Refer BD-JIC-C14-DRW-S01-STA-NTU-04001-000, 40002-000, 40003-000 for the fixing method of the panel. The fixing detail of panel shall be designed by the Contractor during detailed design.
73	BD-JIC-C14-DRW-S01-STA-NTU-02101-000, 02103-000, 02201-000, 02204-000	Ventilation Shaft –1 & 2 - Plans & Elevations Louver Fixing	As per plan, louvers are shown in between the columns for ventilation shaft 1 & 2. The elevations for ventilation shaft 1 also show louvers in between the columns. However, in the elevation of ventilation shafts 2, louvers are shown covering the columns in between.	Please clarify the fixing arrangement of these louvers.	The Contractor shall develop during detailed design for approval of the Engineer.
74	Volume 2 of 2, Section VI-4(DRAWINGS).Drg.No.BD-JIC-C14-DRW-S01-STA-NTU-04003-000	Protection around structural steel beams.		Request to provide specifications for the protection lining.	The Contractor shall develop during detailed design for approval of the Engineer.



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S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response									
75	Volume 2 of 2, Section VI-4(DRAWINGS).	Civil and Structural drawings for Station, cut & cover Tunnel and Shaft-1		Kindly provide the reinforcement details for the following:- 1. lift pit 2. escalator pits 3. Stairwell 4. Lift shafts 5. shear walls marked WB1,WG4,WG8B,WT5,WT5A2,WT5C,WT10,WT13A1,WT13AA1 6. Mechanical Traversing Device (MTD) Foundation.	Lift pit, escalator pit, stairwell, lift shafts, MTD foundation details shall depend upon the equipment manufacturer and shall therefore be finalized during detailed design and construction stage by the Contractor. For shear walls (excluding WT10, WT13A1 and WT13AA1), refer Addendum No. 01, Item No. 41. Details of WT10, WT13A1 and WT13AA1 shall be provided in the next Addendum.									
76	Volume 1 of 2 Section VI-1	05010 – Cl 1.3.1 Basic design	Detailed Design of steel structure and deck shall be done by the Contractor.	Request to provide Employer Requirements and specifications for Entry/Exit Structure Roof level Deck.	Refer architectural drawings and DRC and TS 05010.									
77	Volume 2 of 2, Section VI-4(DRAWINGS).Drg.No. SD-JIC-C14-DRW-S01-CCT-NTU-30080001	Shaft-1 RC Detail at Section Xsf5	NA	We understand that RC detail given at section Xsf5 is applicable for grids Xsf2 to Xsf4 also. Request to confirm.	The RC detail given at section Xsf5 is applicable for grids Xsf2 to Xsf4.									
78	Volume 2 of 2, Section VI-2. Employer's Requirements (Design Requirements and Criteria) – P/No. 6 of 7	1.3.3 (d)	Design Life:- The Contractor is expected to submit a report demonstrating the approach in design, Construction and selection of materials to achieve the Design Life as specified. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>S.No.</th> <th>Item</th> <th>Design Life (Years)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG Station, Cut & Cover Tunnel and Shaft-1</td> <td>100</td> </tr> <tr> <td>2</td> <td>Steel Structures</td> <td>60</td> </tr> </tbody> </table>	S.No.	Item	Design Life (Years)	1	UG Station, Cut & Cover Tunnel and Shaft-1	100	2	Steel Structures	60	Design of UG Station, Cut & cover Tunnel and Shaft-1 (main structures) are provided by the Employer. Hence, the applicability “demonstrating the approach in design” in the clause shall be excluded for Employer design.	The Contractor shall demonstrate the approach in Contractor's design, construction and selection of materials to achieve the Design Life as specified.
S.No.	Item	Design Life (Years)												
1	UG Station, Cut & Cover Tunnel and Shaft-1	100												
2	Steel Structures	60												
79	Volume 2 of 2, Section VI-4(DRAWINGS).Drg. No. SD-MTC-D01-TDS-S01-CCT-NTU-20240-000	RC details: future knock out and cut out panels		The section 1-1 taken from section 2-2 is not matching with the RC details of section 1-1.	Refer Addendum No. 01, Item No. 41.									
80	Volume 2 of 2, Section VI-4(DRAWINGS).Drg. No. SD-MTC-D01-TDS-S01-CCT-NTU-20046-001 to 20051-001	West Entry/Exit (Entrance 1)	NA	Civil and Structural drawing shows RCC Structure where as in Architectural drawing (BD-JIC-C14-DRW-S01-STA-NTU-07001-000 & 07002-000) Steel structure is shown in the same location. Please clarify the arrangement to be followed. If both to be followed, then provide integrated arrangement for Clarity.	West Entry/Exit structure is RCC structure. Also, refer Addendum No. 01, Item No. 41.									
81	Volume 1 of 2, Section VI-1, Division 05010, P/No.2 of 36.	1.4.1	Basic Design shall be considered as conceptual as applicable, that specifies the basic understanding of the Employer in terms of intention, concept, aesthetics (including the structural form) for the Contractor to undertake the Technical Design. b) East Entry/Exit Structure; c) Steel structure and deck of West Entry/Exit structure;	Drawings for Entry/Exit structure are provided with similar arrangement of structural steel and Roof (Drg. No.BD-JIC-C14-DRW-S01-STA-NTU-07001-000 to 07004-000) for both East and West sides. However, the brief given Clause 1.4.1 (b) and (c) are different. Request to Clarify.	Refer Addendum No. 01, Item No. 41.									

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S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response						
82	Volume 2 of 2, Section VI-4(DRAWINGS).Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20152-001 & SD-MTC-D01-TDS-S01-CCT-NTU-20080-001	Civil and Structural drawings for Station and cut & cover Tunnel.		<p>Mismatch Observed in the drawings. Please confirm the thickness to be followed.</p> <table border="1"> <tr> <td></td> <td>Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20152-001</td> <td>Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20080-001</td> </tr> <tr> <td>PCC (M20)</td> <td>75 THK</td> <td>150 THK</td> </tr> </table>		Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20152-001	Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20080-001	PCC (M20)	75 THK	150 THK	Thickness of PCC shall be 150 mm. Also, refer Addendum No. 01, Item No. 41.
	Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20152-001	Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20080-001									
PCC (M20)	75 THK	150 THK									
83	Volume 2 of 2, Section VI-4(DRAWINGS).Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20151-000	Standard Beam Reinforcement Details		Request to provide standard detail for Beam with one end on Wall and other end continuous over the column.	Type - 2 detailing shall be followed for beam resting on wall at one end and continuous over the column at other end. The embedment length inside wall will remain the same as mentioned in Dwg. No. SD-MTC-D01-TDS-S01-CCT-NTU-20151-000						
84	Volume 2 of 2, Section VI-4(DRAWINGS).Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20095-001 & SD-MTC-D01-TDS-S01-CCT-NTU-20238-000	Civil and Structural drawings for Station and cut & cover Tunnel. GENERAL ARRANGEMENT - SECTIONS - TANKS AT B1 LEVEL		<p>Mismatch Observed in the drawings. Please confirm the thickness to be followed.</p> <table border="1"> <tr> <td></td> <td>Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20095-001</td> <td>Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20238-000</td> </tr> <tr> <td>Slab Thk.</td> <td>300</td> <td>200</td> </tr> </table> <p>Kindly provide base slab thickness, its connectivity details with B1-Level slab and its Reinforcement details.</p>		Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20095-001	Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20238-000	Slab Thk.	300	200	Top slab of water tank shall be 300mm thick. There is no connectivity of tank base slab with B1-Level slab. Also, refer Addendum No. 01 Item No. 41.
	Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20095-001	Drg.No.SD-MTC-D01-TDS-S01-CCT-NTU-20238-000									
Slab Thk.	300	200									
85	Volume 2 of 2 Section VI-4 SD-MTC-D01-TDS-S01-CCT-NTU-200031-002 & SD-MTC-D01-TDS-S01-CCT-NTU-200031-000 Volume 2 of 2 Section VI-4 SD-MTC-D01-TDS-S01-CCT-NTU-200024-002 & SD-MTC-D01-TDS-S01-CCT-NTU-20208-000	General Arrangement & RC details B1 level beams General Arrangement & RC details B2 level beams		<p>The reinforcement details of the following beams are not available in the Beam Schedule at B1 and B2 level. B322,325,326,337,338,327,339,329,330,331,328,334,323,335,324,336,605,606,607,608,610,612,613,614. B-32, 285, 270, 640, 701, 718 Kindly provide the same.</p>	Refer Addendum No. 01 Item No. 41.						

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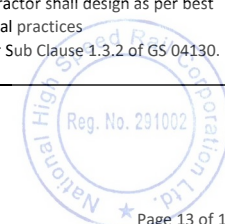
S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response																																																		
86	Volume 2 of 2 Section VI-4 SD-MTC-D01-TDS-S01-CCT- NTU-200031-002 & SD-MTC- D01-TDS-S01-CCT-NTU- 200031-000	General Arrangement & RC details B1 level beams	B- 633,634,255,110,258,775,54,153,50	<p>Mismatch observed between the GA drawings and Reinforcement drawings as below. Request to clarify the same.</p> <table border="1"> <thead> <tr> <th colspan="3">GA drawings</th> <th colspan="2">Reinft. drawings</th> </tr> <tr> <th>Beam numbers</th> <th>B (mm)</th> <th>D (mm)</th> <th>B (mm)</th> <th>D (mm)</th> </tr> </thead> <tbody> <tr> <td>633,634</td> <td>1000</td> <td>2000</td> <td>600</td> <td>1500</td> </tr> <tr> <td>255</td> <td>1000</td> <td>2000</td> <td>600</td> <td>1500</td> </tr> <tr> <td>110</td> <td>1500</td> <td>2000</td> <td>3850</td> <td>2000</td> </tr> <tr> <td>258</td> <td>2000</td> <td>2000</td> <td>3000</td> <td>2000</td> </tr> <tr> <td>775</td> <td>3850</td> <td>2000</td> <td>1500</td> <td>2000</td> </tr> <tr> <td>54</td> <td>2000</td> <td>2000</td> <td>1500</td> <td>2000</td> </tr> <tr> <td>153</td> <td>3000</td> <td>2000</td> <td>2000</td> <td>2000</td> </tr> <tr> <td>50</td> <td>1000</td> <td>2000</td> <td>2000</td> <td>2000</td> </tr> </tbody> </table>	GA drawings			Reinft. drawings		Beam numbers	B (mm)	D (mm)	B (mm)	D (mm)	633,634	1000	2000	600	1500	255	1000	2000	600	1500	110	1500	2000	3850	2000	258	2000	2000	3000	2000	775	3850	2000	1500	2000	54	2000	2000	1500	2000	153	3000	2000	2000	2000	50	1000	2000	2000	2000	Refer Addendum No. 01 Item No. 41.
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87	Drawing number: SD-JIC-C14 DRW-S01-CCT-NTU- 30090001	RC DETAIL AT SECTION Xsf5 (2/7) Wall and slab reinforcement		RC details of left wall, right wall, Top slab and B1 to B4 slab have given. Kindly mention where the section is taken.	Refer Addendum No. 01 Item No. 41.																																																		
88	VOLUME 2 of 2 Section VI-2 Employer's Requirements (Design Requirements and Criteria) page no 16 of 30	3.3.1 & 3.3.4 Ground Analysis, Instrumentation & Monitoring (I&M) and Protection of Existing Building Structures (EBS)	Movement and distortion shall be Limited such that no Individual EBS shall suffer damage greater than "slight" as defined in the "Damage classification " in Table 1. Ground movement shall not exceed 10 mm	By considering Metro projects, the damage category "slight" seems to be more stringent. Hence, it shall be allowed up to "Moderate" Category. We understand that this limit is applicable only at the location of EBS. Please confirm.	The Condition(s) of the Bidding Documents shall remain unaltered.																																																		

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S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response
89	<p>Bidding Documents - Part 2 SectionVI-1. Employer's Requirements (General Specifications) Division 01000 Page no: 9 of 10 (Volume -1 Page 156/632)</p> <p>Bidding Documents - Part 2 SectionVI-1. Employer's Requirements (General Specifications) Division 06000 Page no: 28 of 40 (Volume -1 Page 363/632)</p> <p>Bidding Documents – Part 1 Section IV – Bidding Forms, No. 2 (Volume -1 Page 61/632) and Schedule No. 9 (Volume -1 Page 78/632)</p>	<p>Cl. 5 Removal/ Relocation of Utilities</p> <p>Cl. 2.2.1 Utilities, Services and Facilities Chartered Utility</p> <p>Item No 203 And Item No. 1103 Utility investigation And Unchartered Utilities</p>	<p>All the charted and uncharted utilities will be dealt by the Contractor as described in the General Specifications, Sub-Division 06060.</p> <p>The utilities identified by the Employer and included in Section VI-5: Employer's Requirements – Reference Information/ Reports are designated as Chartered Utilities. The Employer has the responsibility of removing /relocating /shifting /diverting these Chartered Utilities.</p> <p>As per Item No 203, Utility investigations (validation of charted utilities and identification of uncharted utilities) is a lump sum item.</p>	<p>Cl. 5 (Division 01000) describes that utility diversion is contractor's responsibility.</p> <p>Cl. 2.2.1 (Division 06000) describes that utility diversion is employer's responsibility.</p> <p>Please clarify all charted and uncharted utilities as listed in attachment – 3, shall be dealt by the employer.</p> <p>Uncharted utilities cannot be indentified and evaluated during the bidding stage. Request the employer to remove investigation of uncharted utilities from Item no 203 (Schedule 2) and include it in Item No 1103 (Schedule 9) as provisional sum item.</p>	<p>The Condition(s) of the Bidding Documents shall remain unaltered.</p>
90	<p>Bidding Documents - Part 2 SectionVI-1. Employer's Requirements (General Specifications) Division 06000 Page no: 19 of 40 (Volume -1 Page 354/632)</p>	<p>Cl. 10.2 Contractor's Plants</p>	<p>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.</p>	<p>The land available in ROW is not sufficient to setup site facilities as mentioned in the clause.</p> <p>Request NHSRCL to provide the open area available adjacent to the proposed work area for the mentioned site facility setup.</p>	<p>The Condition(s) of the Bidding Documents shall remain unaltered.</p>
91	<p>Bidding Documents - Part 2 SectionVI-2. Employer's Requirements (Design Requirements and Criteria) Division 02000 Page no: 25 of 30 (Volume -2 Page 76/633)</p> <p>SECTION VI-5 (Reference Information Reports)</p>	<p>Cl. 4.2.12 (e), (g) Design of Temporary Works</p> <p>Attachment - 5 ROW ortho Map</p>	<p>The temporary works design submissions shall include, but not be limited to the following: e) Temporary walls shall socket (minimum 1m or diameter in case of secant piles or contiguous bored piles or thickness of D-wall) in moderate decomposed rock. g) A minimum 1.0 m berm or as directed by the Engineer, shall be provided along the outermost edge of the temporary wall.</p>	<p>As per attachment – 5, ROW ortho map having drawing number RI/NHSRC/HSR-MA/ROW/C-1 /001 (Sheet 1 of 2, sheet 2 of 2), only 3m (approx.) width is available from outer of the structure to ROW boundary.</p> <p>As per clause Cl. 4.2.12 (e), (g) and reference drawing- 01_Civil_Shaft-1 (Typical Excavation Section – BD-MTC-D01-TDS-S01-CCT-NTU-20012-000), also considering work space around retaining system and space for barrication, Etc.</p> <p>Please provide minimum 8m from the face of the outer wall as ROW.</p>	<p>The Condition(s) of the Bidding Documents shall remain unaltered.</p>

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92	Bidding Documents - Part 2 Section VI-1. Employer's Requirements (General Specifications) Division 04000 Page no: 69 of 82 (Volume -1 Page 266/632)	MS 12 Milestone Schedules	The following works shall be executed for Shaft-1 up to B2 Slab Level, after retrieval of TBM by C-2 contractor: i. Completion of all civil (structural) works. ii. Completion of the provisions for T-1 contractor in accordance with the requirements specified in GS 04040 Appendix 04000-1 and handing over to T-1 contractor. iii. Completion of the provisions for E-1 contractor in accordance with the requirements specified in GS 04040 Appendix 04000-1 and providing access to E-1 contractor.	Request NHSRCL to provide the day of availability of retrieval area to C-1 contractor to complete the scope corresponding to milestone MS 12. Accordingly, C-1 contractor can plan resources to complete all activity pertaining to MS 12.	The Contractor shall interface with C-2 Contractor for the retrieval area. Refer to Appendix 04000-1 of GS 04000.
93	SECTION VI-5(REFERENCE INFORMATION REPORTS)	Attachment 5 - ROW Ortho Map	Decking for Road-2 Road-2 will be closed for 4 months and the contractor has to provide the decking for the road user pedestrian, light vehicles to cross.	Request NHSRCL to confirm, whether the decking is mandatorily to be provided by the C-1 contractor, or any alternate route may be identified, and traffic diversion deployed for the road users.	Refer Addendum No. 01 Item No. 40. Also, refer Sub-Clause 7.2 of GS 06070.
94	SECTION VI-4(DRAWINGS)	04_Mechanical 05_Electrical 06_Plumbing and Firefighting		Please provide Legible PDF / AutoCAD copies of plumbing and firefighting drawings.	AutoCAD drawings cannot be provided at this stage. New folder of clear PDF files of all the Drawings maybe downloaded for reference by the Bidders through the link provided.
95	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg.13 of 22	2.1 Water Supply System	Municipal water connection	Please provide the coordinates of tapping location of Municipal water to estimate the pipe length and pumps if any is required.	Refer Sub-Clause 2.1 of Employer's requirements DRC 5050 Part 2 Section VI-2. The Contractor shall develop the detailed design drawings for the approval of the Engineer.
96	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg.16 of 22	4 Rainwater discharge	Rainwater Drainage System – discharge of rainwater to municipal drain.	Please provide the coordinates of outfall location and invert levels of existing municipal storm water drain.	Refer Clause 4 of Employer's requirements DRC 5050 Part 2 Section VI-2. The Contractor shall develop the detailed design drawings for the approval of the Engineer.
97	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg.17 of 22	5 Sewage Disposal	Collected sewage shall be transfer via transfer pumps into Municipal sewage trunk mainline.	Please provide the coordinates of disposal location of Municipal sewage trunk mainline to estimate the pipe length and pumps head.	Refer Clause 5 of Employer's requirements DRC 5050 Part 2 Section VI-2. The Contractor shall develop the detailed design drawings for the approval of the Engineer.
98	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg.14 of 22	2.2 Domestic Water Storage Tanks	The minimum Raw & Domestic Storage Tanks Capacities shall be 500 cum.	Bidder understands that provided 500cum storage tanks for domestic applications and water supply to train, not for cooling tower make-up & landscaping. Please confirm.	The Bidder's understanding is correct.
99	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg.19 of 22	10 Water Supply System to Train	Train filling water supply points	1. Please provide the required water quantity for single train and required pressure at filling point of train. 2. Please confirm the no. of trains to be filled for day.	Refer to Addendum No. 01, Item No. 21.
100	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg. 14 of 22	2.5 Water Treatment Plant	Water treatment plant for domestic water supply from Municipal corporation to meet the required quality and distribution system	Please provide the following details to design the WTP. 1. Confirm any specific kind of treatment is required (Adsorption/RO/Softening/ultrafiltration) 2. Design life of water treatment plant 3. Confirm the O&M (including chemical supply for 6 months only) is in contractor's scope of work	1. Refer Sub-Clause 2.1 of Employer's Requirements DRC 05050 Part 2 Section VI-2 2. Contractor shall design as per best industrial practices 3. Refer Sub Clause 1.3.2 of GS 04130.



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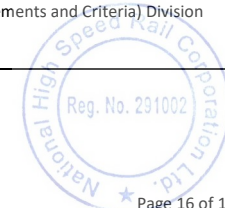
S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response
101	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg. 17 of 22	8 Wastewater Treatment Plant	Wastewater treatment plant for wastewater from the pantries, toilets (washbasins, sinks, drainage from outdoor AC units, filter feedback washing and platform scrubbers, public areas and commercial areas)	Please provide the following details to design the WWTP. 1. Confirm any specific kind of treatment is required (Biological/Electrochemical) 2. Design life of Wastewater treatment plant 3. Confirm the O&M (including chemical supply for 6 months only) is in contractor's scope of work	1. Refer Clause 8 of Employer's Requirements DRC 05050, Part 2, Section VI-2 2. Contractor shall design as per best industrial practices 3. Refer Sub Clause 1.3.2 of GS 04130
102	General – Plumbing System	Landscaping Water supply		Bidder understand that water requirement & supply to landscaping is not part of this contract. Please confirm	The Bidder's understanding is correct.
103	SECTION VI-4(DRAWINGS) / 06_Plumbing and Firefighting	a) BD-JIC-C14-DRW-S01-STM-NTU-01400-000 - Firefighting schematic drawing & b) BD-JIC-C14-DRW-S01-STM-NTU-01500-000 - Underground water tanks & fire pump layout	Pumping arrangements for low pressure water mist sprinkler and medium velocity spray system	As per referred schematic drawing both low pressure mist sprinkler system and medium velocity spray system are being supplied by common pumps whereas in fire pump layout both systems have their own pumps. Please clarify.	Based on DRC 05050 and TS 05050 the Contractor shall develop the detailed design drawings. Also refer Addendum No. 01, Item No. 41.
104	SECTION VI-4(DRAWINGS) / 06_Plumbing and Firefighting	BD-JIC-C14-DRW-S01-STM-NTU-01500-000 Underground water tanks & fire pump layout	Diesel pump standby	As per referred pump room layout, bidder understands that Diesel pump standby (FDS) is provided for only for medium velocity spray system. Please confirm. Please clarify why there is no diesel engine pump for hydrant system.	Refer Sub-Clause 12.2 of DRC 05050. The Contractor shall develop the detailed design drawings for the approval of Engineer. Also refer Addendum No. 01, Item No. 41.
105	SECTION VI-4(DRAWINGS) / 06_Plumbing and Firefighting	BD-JIC-C14-DRW-S01-STM-NTU-01500-000 Underground water tanks & fire pump layout		Bidder understands that Jockey pump is provided only for low pressure mist sprinkler system. Please confirm.	The Bidder's understanding is correct. Also refer Addendum No. 01, Item No. 41.
106	SECTION VI-4(DRAWINGS) / 06_Plumbing and Firefighting	BD-JIC-C14-DRW-S01-STM-NTU-01500-000 Underground water tanks & fire pump layout	Pumping arrangements for high pressure water mist gun, Low pressure water mist sprinklers and Medium velocity sprinkler systems	As per the provided pump room layout, Bidder understands the following, High pressure mist gun system is provided with the following One no. of Electrical driven pump (Working) One no. of Electrical driven pump (Standby) Low pressure mist sprinkler system is provided with the following One no. of Electrical driven pump (Working) One no. of Electrical driven pump (Standby) One no. of Electrical driven pump (Jockey) Medium velocity sprinkler system is provided with the following One no. of Electrical driven pump (Working) One no. of Electrical driven pump (Standby) One no. of Diesel engine driven pump (Standby) Please confirm.	Based on DRC 05050 and TS 05050 the Contractor shall develop the detailed design drawings for the approval of the Engineer. Also refer Addendum No. 01, Item No. 41.
107	SECTION VI-4(DRAWINGS) / 06_Plumbing and Firefighting	BD-JIC-C14-DRW-S01-STM-NTU-01400-000 Firefighting schematic drawing	Terrace water tank for firefighting	Schematic drawing shows terrace water tank for firefighting system. 1. Please furnish the capacities of terrace water tank. Please clarify on requirements of booster pumps for terrace tanks since, firefighting systems requires minimum pressure which cannot be fulfilled by the terrace tank alone. Especially for high pressure water mist gun system required pressure is high which cannot be supplied by terrace tank.	Based on DRC 05050 and TS 05050, the Contractor shall develop the detailed design drawings for the approval of the Engineer. Also refer Addendum No. 01, Item No. 41.

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S No	Part & Section Reference	Page No / Clause No.	Provision as per Bidding Documents / Subject / Title / Item as mentioned by the Bidder	Bidder Query	Employer's Response
108	SECTION VI-4(DRAWINGS) / 06_Plumbing and Firefighting	BD-JIC-C14-DRW-S01-STM-NTU-01400-000 Firefighting schematic drawing	Standpipe (XS) system	<ol style="list-style-type: none"> As per referred schematic drawing, Bidder understands that standpipe system is not connected to any water reservoir / pumping systems and it is assumed that system will be catered by fire brigade through Siamese connection provided on the ground level. Please confirm. Please clarify the areas where the stand pipe (XS) system to be provided Please provide the technical specifications / design requirements for the stand pipe (XS) system 	Based on DRC 05050 and TS 05050, the Contractor shall develop the detailed design drawings for the approval of the Engineer. Also refer Addendum No. 01, Item No. 41.
109	Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg.20 of 22	12 Fire Fighting System		Please clarify the requirements of firefighting systems for tunnel and shaft-1. (The referred Design Requirements and Criteria provides design requirements only for UG station.)	DRC 05050 and TS 05050 are applicable to Tunnel and Shaft also. Refer Sub-Clause 1.1 of DRC 05050.
110	a) Vol 2 of 2, Section VI-2. ER, DRC 05050, Pg.22 of 22 b) SECTION VI-4(DRAWINGS) / 03_Architectural, Structural and Signage	a) 12.5 Fire water tank - a) Water for firefighting shall be stored in two interconnected compartments of RCC each having capacity of 125m ³ . b) BD-JIC-C14-DRW-S01-STA-NTU-02213-000	Capacity of fire water tank (TFW-1 and 2)	As per referred clause no. "12.5 Fire water tank", capacity of fire water is 125m ³ (Each), where as in referred drawing capacity is 100m ³ (Each). Please clarify.	The water tank capacity is 125 m ³ each. Refer DRC 05050, TS 05050 and Drawings. Also, refer Addendum No. 01, Item No. 39.
111	a) SECTION VI-4(DRAWINGS) / 06_Plumbing and Firefighting b) SECTION VI-4(DRAWINGS) / 03_Architectural, Structural and Signage	a) BD-JIC-C14-DRW-S01-STM-NTU-01500-000 b) BD-JIC-C14-DRW-S01-STA-NTU-02213-000 Underground water tanks & fire pump layout	The location of fire water tanks (TFW-1 and 2)	The location of fire water tanks (TFW-1 and 2) in fire pump layout (drawing. No. BD-JIC-C14-DRW-S01-STM-NTU-01500-000) is not matching with architectural and structural drawing. No. BD-JIC-C14-DRW-S01-STA-NTU-02213-000. Please clarify.	Based on DRC 05050 and TS 05050 the Contractor shall develop the detailed design drawings. Also refer Addendum No. 01, Item No. 41.
112	Vol 2 of 2, Section VI-2. ER, DRC 05040, Pg.19 of 58	17.1.1.2 Gas suppression system	"Fire suppression system for electrical panels/rooms shall be provided as per requirements and the latest NBC standards."	<ol style="list-style-type: none"> Please provide the list of panels to be protected with clean agent gas fire suppression system. Please provide the list of rooms to be protected with clean agent gas fire suppression system. Kindly provide the details and specification for the clean agent gas fire suppression system for panels and rooms. 	The reference given by the Bidder is incorrect (It should be DRC 05040). 1. The Fire Suppression System shall be as per NBC - 2016 in MDB and SMDB LV panels as these are the main panels. 2. & 3. The Contractor shall develop during detailed design for approval of the Engineer.
113	Vol 2 of 2, Section VI-2. ER, DRC 05030, Pg. 37 of 77	5 Tunnel ventilation system		Please provide the heat release rate (HRR) value of the car to be considered for the Tunnel ventilation system in fire scenario.	Refer DRC 05030 Clause 5.3-'System Design' for considering air flow velocity to be maintained in tunnel under normal and fire scenario.

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114	Section VI-2. Employer's Requirements (Design Requirements and Criteria). page 30/77 & 33/57	Clause 2.2.9, Si. No-(a), (c), (e) & and 2.2.9.15 Air Handling Unit	The provision of standby drive motor for AHU fans and auto changeover	The bidder understands that all the AHU shall be Eurovent certified. Query: As a standard, The Eurovent certified AHU shall have only active fan motor and a standby motor with manual changeover based on specific requirement for AHU with DIDW fan. From Vendor data, The feasibility of Auto changeover of standby motor shall require a customization in fan pulley by magnetic clutch arrangements, which would lead to void in Eurovent certification. Since the plug fans have direct driven motor, The auto changeover of standby motor shall not be feasible. Kindly confirm if AHU can be provided with Plug fans with a manual standby motor.	Refer Addendum No. 01 Item No. 12, 13, 14 & 31.
115	Volume – 2 of 2, Section VI-2, Employer's Requirement (Design Requirement and Criteria) Division 05040 Page – 21 of 58	4.4.3 Fire Detection and suppression system	Fire detection and suppression system for Low Voltage Switchboards and Panels shall be as per NBC - 2016. Fire detection system shall be integrated with station fire alarm system for alarm, monitoring and annunciation.	The bidder shall consider Fire suppression system in the MDB in electrical panel room. Further SMDB and Distribution boards will not have fire suppression system. Please confirm.	The Fire Suppression System shall be as per NBC - 2016 in MDB and SMDB LV panels as these are the main panels.
116	Volume – 2 of 2, Section VI-2, Employer's Requirement (Design Requirement and Criteria) Division 05040 Page – 21 of 58	17.1.28.f) Control Supply	Separate control bus of suitable rating made of copper shall be provided throughout the panel length, and the control bus shall be accessible from the front of the panel. Control voltage taping for different feeder shall be done with proper clamp.	The bidder understands that the control supply requirement is for main LT panel and panels with ATS only. How-ever for SMDB's & small distribution board, control supply will not be required for protection and operation. Please confirm this understanding.	Refer to Clause 11 of Section VI-2 Employer's Requirements (Design Requirements and Criteria) Division 5040. Control supply scheme shall be prepared during detailed design and submitted for approval of the Engineer.
117	Volume – 2 of 2, Section VI-2, Employer's Requirement (Design Requirement and Criteria) Division 05040 Page – 22 of 58	17.1.30 Relays	The relays shall have in-built function with protective gears as ACB, MCCB and MCB and MPCB. Relay shall be provided to ensure full protection to the system.	The bidder understands that inbuilt releases of ACB's, MCCB's & MCB's will be used and relays for additional functions other than the inbuilt releases is only to be provided separately. Please confirm.	It is confirmed. Refer Sub-Clause 17.1.30 of Section VI-2. Employer's Requirements (Design Requirements and Criteria) Division 5040.
118	Volume – 2 of 2, Section VI-2, Employer's Requirement (Design Requirement and Criteria) Division 05040 Page – 23 of 58	17.1.38 MCCB	MCCB shall be of fixed or withdrawal type.	Please confirm if the MCCB feeder will be fixed or withdrawal type. Also please do confirm if the MCCB's will have Adjustable/ fixed Thermal magnetic or microprocessor based releases.	The proposal and drawings shall be submitted by the Contractor during detailed design for approval by the Engineer.
119	Volume – 2 of 2, Section VI-2, Employer's Requirement (Design Requirement and Criteria) Division 05040 Page – 25 of 58	17.2. Power Factor Correction unit		The APFC section can be considered as a part of the LT panel itself instead of an individual panel. Please confirm.	The proposal and drawings shall be submitted by the Contractor during detailed design for approval by the Engineer.
120	Volume – 2 of 2, Section VI-2, Employer's Requirement (Design Requirement and Criteria) Division 05040 Page – 32 of 58	17.4.15 Lighting System	Luminaire efficacy for prosed luminaires shall be minimum 0.7	Efficacy of LED luminaires are 70-100 lumens/watt. Please confirm the acceptance of the same.	Detailed design and related calculations shall be developed during detailed design by the Contractor. Refer to Sub-Clause 17.4 of Section VI-2 Employer's Requirements (Design Requirements and Criteria) Division 5040.



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121	Volume – 2 of 2, Section VI-2, Employer's Requirement (Design Requirement and Criteria) Division 05040	General Requirement		Please mention the voltage drop level to be considered till load end. Please do mention the voltage drop till the MDP Panel by E1 contractor to determine further voltage drop allowed.	The Contractor shall interface with E-1 Contractor for voltage drop during detailed design as per Sub-Clause 17.3.10 of Section VI-2 Employer's Requirements (Design Requirements and Criteria) Division 05040.									
122	Volume – 2 of 2, Section VI-3, Employer's Requirement (Technical Specification) Division 05040 Page – 4 of 58	9. Low Voltage Switch Board		Technical specification requirement for individual items in Automatic Power Factor Correction Unit is not available. Please provide the same.	The Contractor shall develop during detailed design for approval of the Engineer.									
123	Volume – 1 of 2, Section VI-1, Division 04090 Work Area Access Within ROW Access Dates	2 Work Area Access Schedule	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Period after the Commencement Date in days</th> <th>Cumulative percentage of land to be handed over for work with respect to total area.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>80%</td> </tr> <tr> <td>2</td> <td>180</td> <td>100%</td> </tr> </tbody> </table>	S. No.	Period after the Commencement Date in days	Cumulative percentage of land to be handed over for work with respect to total area.	1	1	80%	2	180	100%	Request NHRCL to demarcate the 80% of land which would be handed over to the contractor on day 1, this is for our planning purpose.	The Condition(s) of the Bidding Documents shall remain unaltered.
S. No.	Period after the Commencement Date in days	Cumulative percentage of land to be handed over for work with respect to total area.												
1	1	80%												
2	180	100%												

