

**Contract NE-01 : Supply, Installation, Testing and Commissioning of 25 kV Overhead Equipment (OHE), 33 kV Auxiliary Power Supply and SCADA Systems for Elevated Corridor of Noida-Greater Noida Section (21 Stations, 29.139 RKM) and Rolling Stock Depot at Greater Noida**

**Pre-bid clarifications (Total 116 pages)**

**Attached with Addendum No.-02**

Sl. No.	Tender Volume	Ref. Clause	As per Tender	Query/Clarification	DMRC's Reply / Clarification
1.	Vol-1	1.1.3	This is a NON-JICA funded Contract and project shall be financed accordingly.	Kindly elaborate the roll of Noida Metro Rail Corporation during the award/execution of project and in releasing the payments to contractors.	On behalf of NMRC, DMRC shall be handling the contract and shall be releasing the payment as per contract.
2.	Vol. 1,	clause 1.1.4.1 (iv)	A firm, who has purchased the tender document in their name, can submit the tender either as individual firm or in joint venture/Consortium. However, the lead partner in case of JV shall be one who has experience of Viaduct/Bridge/Flyover	We understand that lead partner should have experience in design and execution of OHE works on Viaduct. Please confirm	Kindly Refer Addendum No.-2
3.	Vol 1,	clause 1.1.4.2 A	Work Experience: The tenderers will be qualified only if they have completed work(s) during last ten years ending 31.05.2015 as given below:  (i) At least one work of Supply, Installation, Testing And Commissioning of 15 kV and - above Traction (Flexible	Designs and execution for Flexible OHE and Rigid OHE have lot of similarities. We request you to also allow to consider the experience of 15kV and above Rigid OCS along with Flexible OHE.	Kindly refer addendum No-02

			<p>OHE) Systems. Of value of Rs. 80 crores or more. OR</p> <p>(ii) Two works of Supply, Installation, Testing And Commissioning of 15 kV and -above Traction (Flexible OHE) Systems. Each of value of Rs. 50 crores or more. OR</p> <p>(iii) Three works of Supply, Installation, Testing And Commissioning of 15 kV and -above Traction (Flexible OHE) Systems. Each of value of Rs. 40 crores or more.</p>		
4.	Vol 1	clause 1.1.4.2 A	<p>In case the work is executed for private client, copy of work order, bill of quantities, bill wise details of payment received certified by C.A., T.D.S certificates for all payments received and copy of final/last bill paid by client shall also be submitted</p>	<p>Since the contracts are governed by confidentiality agreement, it is not possible to share all these information. We request you to allow submission of customer certificate for the works as qualifying document.</p>	No Change in Tender Condition.
5.	Vol 1	clause 1.1.4.2 A Notes	<p>Financial data for latest last five audited financial years has to be submitted by the tenderer in APPENDIX 13 OF FOT along with audited balance sheets. The financial data in the prescribed format shall be certified by Chartered Accountant with his stamp and</p>	<p>We understand it is a minimum requirement that the participating company should be in operation and should have audited balance sheet for atleast five years. A newly formed company that does not have balance sheet for last five Financial years shall be considered as non-responsive.</p>	<p>Tender Condition are self explanatory. No Change in Tender Condition. Evaluation will be made considering the data available from incorporation.</p>

			signature. In case audited balance sheet of the last financial year is not made available by the bidder, he has to submit an affidavit certifying that 'the balance sheet has actually not been audited so far'. In such a case the financial data of previous '4' audited financial years will be taken into consideration for evaluation. If audited balance sheet of any other year than the last year is not submitted, the tender will be considered as non-responsive.	Please confirm	
6.	Vol-1	Clause 1.1.4.2(B) of NIT	T1. Liquidity The banking reference should be from a Scheduled Bank in India or (in case of foreign parties) from an international bank of repute acceptable to DMRC as per standard performance provided in ITT as Annexure-8 and it should not be more than 3 months old as on date of submission of bids.	There is no format provided for Banking Reference in the tender. Annexure-8 of ITT is FORM OF PERFORMANCE SECURITY (GUARANTEE) BY BANK . We request you to provide us the format for Banking Reference.	Kindly Refer to Addendum No-2
7.	Vol-1	\$ 4.2	Evaluation of Prequalification criteria:  Tenderers, which do not qualify in any of the minimum eligibility criteria or Bid capacity criteria, shall not be considered for further evaluation of Technical packages and shall	Pre-Qualification documents are the part of technical submission as per the check sheet. Please clarify, how PQ documents will be differentiated from technical package.	PQ and technical submittals will be opened together on the date of opening. The offer will be examined first to assess eligibility against PQ criteria and the technical offers of only pre qualified bidders shall be evaluated further as per clause E4 of ITT.

			be rejected.		
8.	Vol-1	1.1.4.2	The exchange rate of foreign currency shall be applicable 28 days before the submission date of tender.	We are considering the exchange rates for 01.06.2015 (28 days before bid submission). Please confirm that in case bid submission date is extended, we need not to revise the exchange rate since CA certification of financial data is a time consuming process, specially for foreign partners.	No Change in Tender Condition.
9.	Vol-1	1.1.9	Tender submissions will be made online after uploading the mandatory scanned documents towards cost of tender documents such as Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and towards Tender Security such as Bank Guarantee or Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and other documents as stated in the tender document.	Please confirm that no other document except "RFP document cost" and "Bid Security" has to be submitted in physical form.	The Tender Document is to be submitted online except cost of tender document and tender security to be submitted in physical form as per tender document before deadline of submission of tender.
10.	Vol -1	Page 35 of ITT	Check Sheet For Technical Submission 20. Annexure-8 Provider of Performance Bank Guarantee	In the Check Sheet For Technical Submission, Annexure-8 is given as Provider of Performance Bank Guarantee. But, in Annexure-8, the format for PERFORMANCE SECURITY (GUARANTEE) BY BANK is given instead of the format	Kindly refer to Addendum No.-2.

				for Provider of Performance Bank Guarantee. Please clarify	
11.	Vol -1	Page 35 of ITT	Annexure-8 Form of Performance Security (Guarantee) By Bank Annexure-9 Form of additional Bank Guarantee	As per clause C12.3 and F5 of ITT, the Performance Security and Additional Bank Guarantee are to be submitted after the award of contract. However, these documents are a part of Check Sheet for technical submission. Please clarify	Kindly refer to Addendum No.-2.
12.	Vol- 1	Clause E4 of ITT	Evaluation of Tenders	According to clause E4 of ITT, the Prequalification Package will be opened before Technical Package. However, there is no separate check sheet for Prequalification submission. The submittals of Prequalification Package are a part of Technical Package as per the Check Sheet for technical submission. Please clarify whether the prequalification and technical packages need to be submitted separately.	The Technical Submission shall include all the document including pre-qualification document except financial package.
13.	Vol-1	Annexure-9 of ITT, Form of Additional Bank Guarantee by Bank	Form of Additional Bank Guarantee by Bank	1) Pl. let us know the purpose of Additional Bank Guarantee. 2) It is mentioned in Sub Clause C2.2(dd) as 'Annexure 9 to ITT:- "Not Used" . Therefore, pl confirm if it is applicable or not. 3) In point 11 of Form of Additional Bank Guarantee by Bank sub points should be (a), (b) and (c) which are	1) Tender Condition are self explanatory. No Change in Tender Condition. 2) Refer to Addendum No.-2.

				mentioned as (d), (e) and (f). PI confirm.	
14.	Vol-1	Clause 1.1.3 of NIT	This is a NON-JICA funded Contract and project shall be financed accordingly	PI confirm the source of funding of the project and name of the funding agency.	On behalf of NMRC, DMRC shall be handling the contract and shall be releasing the payment as per contract.
15.	Vol-2	Sub-Clause 11.1.1 of GCC SCC 24	Taxes & Duties	Since as per The Constitution (122nd Amendment) Bill, 2014 GST will be applicable w.e.f. April 2016 and afterwards all taxes & duties will be subsumed in GST. PI confirm that GST shall be paid if applicable after bid submission.	No Change in Tender Conditions.
16.	Vol-2	Sub-Clause 11.1.1	The contract price shall not be adjusted to take into account any change in taxes, duties, levies or introduction of any new tax, duty or levy till the completion date including the date of extended period of contract.	We request you to please allow Statutory Variations as vide The Constitution (122nd Amendment) Bill, 2014 GST will be applicable w.e.f April 2016 GST and it will effect the Contract Price.	No Change in Tender Conditions.
17.	Vol-1 & 2	Schedule 2 of SCC and Annexure 8 of ITT	Form of performance security (guarantee) by bank	There are two forms for Performance Bank Guarantee/Performance Security by the Bank. Schedule 2 of SCC and Annexure 8 of ITT. Please clarify which form is to be used.	Kindly refer to Addendum No.-2
18.	Vol-2	SCC 46	The contractor shall submit a Indemnity Bond in the format given in Schedule 8 against payments made for Plant and Equipment delivered to Delhi.	We understand that payment for all equipment delivered at NOIDA - GREATER NOIDA will made against the submission of indemnity bond to DMRC.	No Change in Tender Condition. The Delhi shall include the NCR of Delhi.
19.	Vol-2	SCC 7 GCC Sub Clause 4.2.4	In case of non submission of Parent Company undertaking and/or Guarantee, a comfort letter from the Parent	We understand that Parent company undertaking & guarantee are not mandatory to submit if a comfort letter is provided by parent company.	Tender Condition are self explanatory. No Change in Tender Condition.

			Company shall be submitted duly justifying the reasons for non submission of Parent Company undertaking and/or Guarantee.	Also clause for Parent company Undertaking/guarantee are mentioned in performance security clause in SCC 5.0	
20.	Vol-2	GCC 4.2.4	Guarantees and Warranties	Please confirm that Parent company undertaking & parent company guarantee is not applicable if a company is submitting the tender in consortium with the parent company.	Tender Condition are self explanatory. No Change in Tender Condition.
21.	Vol-1	Annexure -7 Point D	FORM OF BANK GUARANTEE FOR TENDER SECURITY	Following lines may be added in point no. "d" of Format. ....(up to 240 days from the date of tender "i.e. Expiry date" "This guarantee is to be returned to the Bank immediately on expiry . If the Bank does not receive the bank guarantee latest by the expiry date, it shall be deemed to be automatically cancelled. The Bank also agrees that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Courts"	No Change in Tender Conditions.
22.	Vol-2	Schedule 2	Format for Performance Security	Paragraph may be revised as below: " <i>NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor up to a total of ----- ----- (amount of Guarantee)------ ----- (in words), such sum being payable in the types and proportion of currencies in which the Contract Price is payable and we hereby</i>	No Change in Tender Conditions.

				<i>unconditionally, irrevocably and without demur undertake to immediately pay you, upon your first written demand and without cavil or argument any sum or sums within the limits of ----- (amount of guarantee) “mentioning therein that the Contractor has failed to perform its obligations as per the above mentioned contract” as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.”</i>	
23.	Vol-2	Schedule 2	Format for Performance Security	<p>Paragraph may be revised as below: (Revised Format Attached)</p> <p><i>“This guarantee shall be valid until (.....)” expiry date”. The pendency of any dispute or arbitration or other proceedings shall not affect this guarantee “during its tenure” in any manner. “This guarantee is to be returned to the Bank immediately on expiry. If the Bank does not receive the bank guarantee latest by the expiry date, it shall be deemed to be automatically cancelled. The Bank also agrees that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Courts.”</i></p>	No Change in Tender Conditions.
24.	Vol-2	Sub-Clause 11.1.1 of GCC SCC 24 (B)	DMRC project is covered under Project Import chapter 98.01 of Custom Tariff Act	Pl confirm the Custom Notification No. under which this Project is listed to avail the benefits of concessional Duty.	Custom Notification No.42 dated 23.07.1996 as last amended by 31/2007 cus.dated 01.03.2007 may be referred to.



			according to which only concessional custom duty is payable. The tenderer should avail this benefit.		
25.	Vol-2	Schedule 7	FORM OF BANK GUARANTEE FOR ADVANCE PAYMENTS	We request you to revise the format with some changes. Revised Format is attached.	No Change in Tender Conditions.
26.	<b>No query raised by the Contractor</b>				
27.	Vol-2	GCC 2.2 Access to and Possession of the Site	For any such delay in handing over of site, Contractors will be entitled to only reasonable extension of time and no monetary claims whatsoever shall be paid or entertained on this account.	We request DMRC to consider cost compensation for additional overhead expenditure incurred by the contractor due to the delay in project for the reasons not attributed to Contractor.	No Change in Tender Conditions.
28.	Vol-2	GCC 2.3	It shall be Contractor's exclusive responsibility to get approvals, permits or license required for the Contract. However, the Employer may (where he is in a position to do so) provide reasonable assistance to Contractor at the request and cost of the Contractor in getting Permits, License or Approvals required during the Contract.	We understand that as per prevalent practices, the permits and approvals shall be obtained in the name of Employer i.e DMRC. Please confirm.	Tender Condition are self explanatory. No Change in Tender Condition.
29.	Vol-2	9.1, GCC	The Works shall be taken over by the Employer when they have been completed in accordance with the Contract, have passed the Tests on Completion, including Integrated Testing and Commissioning where ever	Please include that in case of delay in providing acceptance or where DMRC puts the works in commercial operations, it will be deemed accepted by DMRC. Please confirm.	Tender Condition are self explanatory. No Change in Tender Condition.

			applicable as per the contract, and a Taking Over Certificate for the Works shall be issued.		
30.	Vol-2	GCC 14.6	Limitation of Liability	We request for revision as below <i>“The aggregate liability for any or all claims Including but not limited to Liquidated damages and Indemnification shall not exceed 100% of the total amount received by the Contractor under this contract.”</i>	No Change in Tender Conditions.
31.	Vol-2	GCC 14.1	Indirect or consequential damages	We request for revision as below <i>“The contractor to the maximum extent permitted by applicable law, hereby disclaims all warranties / guaranties , either express or implied , other than what is expressly stated in this contract. In no event shall contractor be liable to Indemnify the customer for loss of contracts , loss of business, loss of data(including but not limited to any and all costs for retrieving and restoring lost data), loss of Interest , lost profits or business Interruption or any Indirect or consequential damages, Irrespective of the cause of action or the legal theory upon which such claim is based and even if such obligations of the Contractor appear at any place in this Agreement and / or any of its parts, portions, allied contracts and agreements.”</i>	No Change in Tender Conditions.
32.	Vol-2	GCC 13	Termination	We request for revision as below <i>“A party shall be entitled to terminate this contract by written notice,</i>	No Change in Tender Conditions.

				<p><i>a) If any proceeding is Instituted against the other party seeking to adjudicate such party as bankrupt or Insolvent , or if the other party makes a general assignment for the benefit of its creditors , or if a receiver is appointed on account of the Insolvency of the other party, and, In the case of any such proceeding Instituted against the other party (but not by the other party itself), If such proceeding is not dismissed with forty-five(45) days of such filing, or</i></p> <p><i>b) If the other party is insolvent or itself files a petition seeking to take advantage of any law relating to bankruptcy , insolvency, winding up or composition or readjustment of debts,</i></p> <p><i>c) If a party commits a material breach of the terms and conditions of the Contract.”</i></p>	
33.	Vol-2	GCC 2.4	Assignment by the Employer	The rights and obligations of each party under this contract may be assigned, novated or otherwise transferred or directly or Indirectly after taking the written consent of the party whose rights are being transferred.	No Change in Tender Conditions.
34.	Vol-2	GCC 10	Warranty/defect Liability period	The direct liability period shall be 24 months from the date of taking over certificate. Please confirm.	No Change in Tender Conditions.
35.	Vol-2	GCC 4.9	Site Data	Please include that in case of error in site data, necessary EoT with cost compensation to the Contractor will be allowed.	No Change in Tender Conditions.

36.	Vol-2	GCC 4.4	Facilities and for coordination of others	Please provide cost compensation along with EoT for delay by designated contractors.	No Change in Tender Conditions.
37.	Vol-2	-	Change in laws	Please include that in case of delay due to change in laws, the contractor shall be entitled to EoT with cost compensation.	No Change in Tender Conditions.
38.	Vol-2	GCC 4.12	Rights of way	Please inform what rights of way does Contractor need to procure.	No Change in Tender Conditions.
39.	Vol-2	-	General	Are there any interfacing obligations that Contractor needs to do	No Change in Tender Conditions.
40.	Vol-2	SCC	Sub-Clause 2.4: Assignment by the Employer (NOT USED)	We understand that the “Not USED” means that the relevant GCC clause is deleted. Please confirm.	Relevant GCC clause is still valid. The “Not Used” is referring to the SCC Clause only.
41.	Vol-2	SCC 25	Prices quoted by the tenderer shall be fixed throughout the Tenderers performance of the contract and not subject to variation of any account except where specifically mentioned in the contract conditions along with the price variations formula to be made applicable.	We request DMRC to consider the price variation for certain items e.g. Contact wire, Catenary wire, MV cables, steel etc.	No Change in Tender Conditions.
42.	Vol-3	1.12.4	Ambient Temperature - 30 Degree C Maximum Temperature - 45 degree C	We understand that in Class ‘B’ environment, the average ambient temperature shall be 30 Degrees and the maximum temperature for a short duration can be 45 Deg. C. Therefore, we have to design equipments suitable for an average ambient temperature of 30 Deg C. Please consider that the temperature	No Change in Tender Conditions.

				inside rooms is generally maintained much lesser than outside ambient temperature. Considerations of maximum temperature (which may happen for very short durations) for design purpose will lead to over designing of the equipment.	
43.	Vol-3	Clause 6.3	Source code	<p>As per clause 1.2 of volume 4 chapter 12A, The supply of source code of SCADA &amp; other software is not mandatory, whereas in vol-3 clause 6.3 it is mentioned as a requirement of source code.</p> <p>In view of the above we would like to clarify that the Project specific application program can only be issued for backup and restoration of system purpose. This is a normal practice with all ongoing Metro projects.</p> <p>Software development source code is the proprietary of the manufacturer and applies copyright regulation for its distribution. Kindly confirm.</p>	<p>Clause 1.2 of Volume 4, Chapter-12A may be followed.</p> <p>No change in tender conditions.</p>
44.	Vol-3	Page GS 3-6 of 12 3.4.5.2.1	The Contractor shall implement a formal Reliability Plan and a formal Maintainability Plan in accordance with the PS and EN 50126 (Railway applications - The specification and demonstration of dependability, reliability, availability, maintainability	We understand that RAMS study do not form a part of Contractor's responsibility. Please confirm.	Tender Condition are self explanatory. No Change in Tender Condition.

			and safety (RAMS)).		
45.	Vol-3	GS 15.4.2	The Contractor shall provide and maintain all necessary offices, sheds, stores, mess rooms, latrines and other accommodation and remove the same from the Site on the Employer's TakingOver of the Works.	Please confirm that the land for Site office & Site store will be provided by DMRC free of cost.	Please refer Clause 1.6 of chapter 5, volume 4.No change in tender conditions.
46.	Vol-4	General	Depot Drawings	The supporting arrangement for the drop arms inside the sheds will be provided Civil. Please confirm	Please refer item no. 4 of table 7.3, of Chapter 3, Volume 4.
47.	Vol-4	General	Depot Drawings	The GAD of Depot in AutoCAD may please be provided.	For drawings in Pdf Kindly Refer Addendum No.-2.
48.	Vol-4	General	Depot Drawings	Sheds typical cross section drawings may be provided.	Necessary cross section will be provided to successful bidder during execution.
49.	Vol-4	Ch- 2, Clause 4	100 meter ROCS on viaduct and in the Depot	The specifications of ROCS system and details of interface with civil contractor may please be provided. The cross section drawings of the Viaduct at that section where ROCS is planned are required.	Kindly refer AddendumNo. -02.
50.	Vol-4	Ch-2 Clause 4	Approx 100meter ROCS on viaduct	We understand that the supports required for ROCS on the viaduct will be provided by Civil Contractor (i.e. Similar to Elevated Station area, in which the arrangement is provided). Please confirm.	Only ROCS Holding Down Bolt will be provided by Civil Viaduct contractorInterface has to be done by NE-01 contractor.
51.	Vol-4	Ch-3	Interface with Design & Build Contractor of RAMP	The chainages of Ramp Section may be provided.	It will be provided to successful bidder during execution.

52.	Vol-4	Ch-3	Interface with Station Building Contractor	The supporting arrangement in stations, Ramp for OHE Supports, RC, and OPC will be provided by SBC contractor. Please confirm	Please refer interface document in Chapter 3 of Volume 4.
53.	Vol-4	Ch-3	Interface with Signalling contractor. Normal & Short Circuit levels	Please clarify “ DD13B(T)”	Kindly Refer Addendum No.-2

54.	Vol-4	Ch-3 Table 11.2 S.No.2	<p>Will supply and install suitable copper cables for connection from RTU to optic fibre Converter at.</p> <ul style="list-style-type: none"> <li>- each station telecom equipment room (from ASS, Traction Switching Stations</li> <li>- the station nearest to RSS, for connection from the RSS</li> </ul>	<p>As per clause 2.1 of volume 4 chapter 12B: “The cables (2 nos.) required for connection between the RTU and the Telecom Equipment Room will be under the scope of this NE01 Contractor. Each cable shall be armoured optical fibre type with 100% redundancy”.</p> <p>So please clarify that the cable required for connection of RTU to Telecom equipment room shall be Fibre Optic cable or Copper cable.</p> <p>Also, please clarify that the communication port required in RTU network switches shall be considered as Ethernet port or Fibre Optic port. If Ethernet ports (for Copper Cable) to be consider then kindly confirm that the distance between RTU to Telecom Equipment Room (Optic Fibre converter) shall not exceed 90 meters along cable route.</p>	<p>The cable required for connection of RTU to Telecom equipment room shall be Fibre Optic cable.</p> <p>For communication port adhere to clause Ch-12B clause 2.1 of Vol-4.</p>
55.	Vol-4	Ch-3 Clause 3	Interface with Design & Build Contractor of RAMP	We understand that the entire corridor is on viaduct. The location and ramp cross section drawings may be provided.	There will be a ramp from viaduct to depot (ground level). The necessary details will be provided to the successful bidder.
56.	Vol-4	Chapter 7 6.4	The relevant list of the spares mentioned above shall be submitted in the technical bids	There is no option for including the Priced annexure (1-5) inBoQ. Also, As per tender requirement, only	Spare part list is attached in Chapter 7, Volume -4. Please refer Addendum No.-2. The price has to be quoted in Volume- 7,



			after blanking the prices, where applicable. The financial bid shall have the price details.	BOQ in excel form to be uploaded as financial package. Please clarify.	Milestone no. MC-1
57.	Vol-4	Chapter 7 Annexure-2  Unit Exchange Spares	(List provided by Employer in tender)	List of unit exchange spares not provided in the tender.  We understand list provided in chapter 7 clause 4 are the mandatory/Contract Spares.  Please clarify	Kindly Refer Addendum No-2.
58.	Vol-4	Ch-3 Clause 9	Interface requirement with Track contractor	The distance between plinth connecting plates at the end of consecutive spans may be provided.	It will be provided by track contractor to successful bidder during design/ execution. Interface responsibility is with NE-01 contractor.
59.	Vol-4	Ch-3 Clause 10	Interface requirement with Signaling Contractor.	As per point no 10, the Impedance bonds will be provided by Signalling contractor, where as in point 17, the CBTC System proposed in Line 8. Please clarify "Line 8" and whether signaling system will be of CBTC System or not.	Kindly Refer Addendum No.-2.
60.	Vol-4	Ch-3 Table 6.3 S.No. 4	Auxiliary Transformer Differential Protection: The relays and CTs required for the LV side will be handed over loose by the NE-01 to E&M. E&M will mount the relays and CT appropriately on LV side.	As the transformers are not with differential protection. This point shall be deleted from interface matrix. E&M shall consider required relays and CTs in its scope for LV side protection. Kindly confirm.	Not required. Please refer Addendum No.-2.
61.	Vol-4	Ch-3 Table 6.3 S.No. 8	Earthing in ASS NE-01 will run an earth bus inside the ASS with suitable GI/ Copper flats. Various non-	We understand that NE01 will run the earth bus and connect non current carrying metallic objects to earth bus for equipments pertaining to NE01	Confirmed.

			current carrying metallic objects will be connected to earth bus by the NE01.	contract. Kindly Confirm.	
62.	Vol-4	Ch-3 Table 8.3 S.No. 4	Auxiliary Transformer Differential Protection: NE01 will provide the necessary differential protection relays along with matching CTs for both HV and IV sides, the relays and CTs required for LV side will be handed over loose by the NE01 to EMD. NE01 will do the necessary control cable connections between HV and LV side.	As the transformers are not with differential protection. This point shall be deleted from interface matrix. Kindly confirm.	Not required. Please refer Addendum No.-2.
63.	Vol-4	Ch-3 Table 8.3 S.No. 7	Earthing in ASS NE-01 will run an earth bus inside the ASS with suitable GI/ Copper flats. Various non-current carrying metallic objects will be connected to earth bus by the NE01.	We understand that NE01 will run the earth bus and connect non current carrying metallic objects to earth bus for equipments pertaining to NE01 contract. Kindly Confirm.	Confirmed.
64.	Vol-4	Ch-3 Table 9.2 S.No. 3	Providing pipes for track crossing of Cables.	As per interface matrix with track contractor NE01 contractor to provide pipes over viaduct and parapet wall, whereas as per interface matrix with Viaduct contractor, Viaduct contractor will provide pipes buried in concrete as per design. We understand that supply of HDPE pipes on viaduct shall be in scope of viaduct contractor. Kindly confirm.	HDPE pipes on viaduct shall be in the scope of NE-01 contractor.
65.	Vol-4	Ch-3 Table 12.3 S.No.	25kV OHE and 33kV feeder from existing:	Scope of modification work is not clear whether supply of extension feeders at	1. Modification of 25 kV OHE is in the scope of work in the NE-01 contract on L-3

		1 Ch-11A Clause 1.2.2	NE01 contractor will design and execute the 25kV OHE and 33kV feeders as per specifications from the existing line-3. The NE01 contractor will also interface and execute the 25kV OHE and 33kV feeders as per specifications from the contractors of Noida Sector-32 and Sector-62.	existing stations shall be in scope of NE01 contract. If yes please provide SLD of existing station from where supply to be extended along with specifications and clear scope description of modification work.	and N-GN corridor. 2. Modification of 33 kV Auxiliary system at N-GN section would be NE-01 Contractor & in L-3 (extn) only Breaker would be provided by L-3 (extn) contractor.  3. Cabling/joint etc from sector 71 to DMRC L-3 section would be in the scope of NE-01 contractor.  4. RTU for control of 25 kV/CB & Isolator etc for feed extn would be in the scope of L-3 contractor. However all cabling etc would be done by NE01 contractor.  5. SCADA operations for feed extension for 25 kV would lie at OCC/DMRC. Integration of RTU with the CB shall be in the scope of NE-01 Contractor.  6. Interfacing will be done as per interface documents of Chapter-III.
66.	Vol-4	Ch-3 Table 13.1 S.No- 14	NE01 Traction contractor will provide RTU at grid substation for exchange of data.	We understand that RTU at GSS shall be provided by NE-01 contractor. Please confirm.	RTU at GSS shall not be provided. Here, GSS is meant as sending end substation of state electricity board which supplies 132 kV incoming to both the RSS.
67.	Vol-4	Ch-7, Clause 4 Scada(8)	Communication Unit	As per our understanding the term "Communication Unit" is used for RTU network switch. Kindly confirm the requirement.	It shall be used as per site requirement.
68.	Vol-4	Ch-7 Clause 4.1	25 kV Voltage transformer (Line Indication Type 30MVA)	This seems to be typographical error. Kindly confirm the voltage transformer rating.	Kindly refer Addendum No.-2.

69.	Vol-4	Ch-7	OHE Cantilever fittings	Aluminium cantilever is a preassembled unit. Please redefine the spare requirement.	Al. Cantilever will be used in NGN section spare will be provided as per chapter-7, clause 4.1. Kindly refer Addendum No.-2.
70.	Vol-4	Chapter 8 4.1 & 4.4	4.1 Power sockets (16A) will require to be provided along the Viaduct, on one side only, at an approximate spacing of 50m.  4.4 "Sockets shall be placed every 50 meters"	Please confirm the distance between viaduct sockets i.e. 50 metre or 25 metre.	Kindly Refer Addendum No.-2
71.	Vol-4	Ch-8, Clause: 5.2	The 33kV draw out type Switchgear has adequate space in front, at the same level to facilitate drawing out.	We understand that this is typographical error and draw out is not applicable for GIS.	Kindly Refer Addendum No.-2.
72.	Vol-4	Ch-8	Buried earth conductor shall be connected to the girders by means of flexible copper cables	We propose to use aluminium/ACSR conductors for connections to the girders as Copper conductors are more prone to Theft. Please confirm.	Kindly Refer Addendum No.-2.
73.	Vol-4	Chapter 9A	Emergency operating conditions (DMRC Will furnish)....	Please furnish the details.	Each RSS is provided with 2 nos. of 132kV/25kV transformers (21.6/30MVA), 2 nos. of 132kV/33kV (10/15 MVA). Loads are given in Ch-9A, clause 2.5 & onwards.
74.	Vol-4	Ch-9A	Headway operation plan	We understand that simulation studies to be performed with Headway of 3mins and with 4cars per train. Please confirm	Simulation studies to be done by successful bidder for traffic projections of the year 2031.  Details given in Ch-9A, clause 2.5 & the table after clause 3.0.
75.	Vol-4	Ch-9A	....spacing the booster transformers if Required.	Please confirm that booster transformer are not provided in the system.	Kindly Refer Addendum No.-2.

				<p>Please provide the details of the cable proposed to be used by signalling / telecom contractor.</p> <p>We understand that system contractors (Ex: Signalling/Telecom) will use cables similar to ones in Line 7 of DMRC, where in BTs were not provided.</p> <p>Please confirm.</p>	
76.	Vol-4	Ch-9A	“ Report on power supply arrangement”	<p>We understand that location of RSS is finalized. In view of same, please provide the tentative layout and SLD of RSS for better understanding.</p> <p>Please provide cable route from RSS to the corridor.</p>	<p>Approximate distance from RSS to Viaduct will be near about 500 meter. However the cable route etc. will be prepared by the successful bidder as this a design&amp; built contract.</p>
77.	Vol-4	Ch-9A Task-2	“Study as per standards already adopted over in Phase-I, II & III for limiting the induction effect.....	<p>Please provide the studies/sample reports of Phase I,II&amp; III for better understanding of requirements.</p>	<p>Documents readily available shall be shared with successful bidder.</p>
78.	Vol-4	Chapter 9A Design Criteria (1.2)	<p>1.2 Codes and standards</p> <p>Following codes and standards shall be adopted in that order of procedure:</p> <p>a) DMRC codes and standards</p>	<p>Please provide the details of relevant DMRC codes and standards.</p>	<p>Relevant Codes &amp; standards of DMRC shall be shared with successful Bidder.</p>
79.	Vol-4	Ch-9A Clause: 1.1-7	<p>Earth quake designs as per Zone-5.</p> <p>As per Ch-10, clause 10.2.2, the foundation designed shall be checked for safety against Seismic forces (Zone-IV) in accordance with IS: 1893-1984.</p>	<p>Kindly confirm if Zone-IV or Zone-V shall be considered.</p>	<p>Zone-V to be Considered.</p>
80.	Vol-4	Chapter 9A 2.1	<p>Provision of sliding type rigid OHE may be explored for use in</p>	<p>Please explain sliding type Rigid OHE in detail.</p>	<p>Kindly refer addendum No.-02</p>

			depot inspection lines to facilitate crane working for maintenance of air conditioners/roof equipment of the train sets	Is it Retractable Catenary? Please confirm.	
81.	Vol-4	Ch-9A Clause 2.1.4	Designer/Contractor shall propose suitable economic design of OHE masts. Tubular masts will be preferred on aesthetic considerations.	As per Chapter 10, Cl 9.1, the profiles of masts proposed to be used are mentioned. Please confirm whether type of masts will be of Tubular type or RSJ's, BFB's & B- Series Structures of Indian origin.	Statement C of BOQ is based on RSJs,BFBs& B series Separate adjustments price to be quoted for tubular poles under Statement E. This will be part of evaluation.
82.	Vol-4	Ch-9A Clause 2.2.4	Fire Protection Facilities The contractor shall design a proper fire protection system of substation for quick and efficient isolation, limitation and extinguishing of fire so as to avoid damage to costly equipment and reduce chances of serious dislocation of power supply and ensure safety of personnel. The first step in this direction is design of substation layout itself with adequate spacing.	We understand that NE-01 contractor is responsible for preparing layout. The fire protection facility in the room shall be provided by other/ civil contractor. Please confirm.	NE-01 contractor has to provide the fire protection facility as given in tender condition mentioned in Ch-11A, clause-8 of Vol-4.
83.	<b>No query raised by the Contractor</b>				
84.	Vol-4	Ch-9A Clause:2.2.4.2	Design of arrangements for AC supplies single and three phases for internal use in the substation for several functions such as illumination, battery charging, transformer cooling system, oil filtration plant, transformer tap	We understand that only equipments pertaining to NE01 shall be considered in scope. Kindly confirm.	Confirmed.

			changer drives, air compressors, breaker and disconnect switch meters, fire protection system, space heaters in cubicles and marshalling kiosks, air conditioning/ventilation equipments.		
85.	Vol-4	Ch-9A Clause: 2.2.4.2	Design of D.C auxiliary power supply system shall consider the requirement for closing and tripping of circuit breakers, emergency lighting, control board indications etc.	We understand that only equipments pertaining to NE01 shall be considered in scope. Kindly confirm.	Confirmed.
86.	Vol-4	Ch-9A Clause: 2.2.4.2	The battery should be capable of supplying- momentary current required for operation of switchgear, continuous load of indicating lamps, holding coils for relays, contractors etc and emergency lighting load.	We understand that battery shall be designed for supplying load related to NE01 contract. Emergency lighting is not in scope of NE01 contract. Kindly confirm.	Confirmed.
87.	Vol-4	Ch-9A Clause:2.3	33kV cables for auxiliary power supply are laid in cable troughs on viaduct.	We understand that on viaduct cables shall run on cable brackets. Kindly confirm.	Kindly Refer Addendum No.-2.
88.	Vol-4	Ch-9A Clause 2.3	The cabling system shall meet the requirement of IEC and IS standard.	Cables are manufactured either as per IEC or IS standard, kindly confirm which standard to follow.	Please refer Ch-11A, clause 5.1.2 of Vol-4. Accordingly cable has to be procured as per IEC-60502 and test have to be done as per Standards given in the clause above.
89.	Vol-4	Ch-9A Clause 2.4.1	Designer shall propose an optimum solution where existing SCADA servers can be used with addition of RTUs.	Kindly confirm if separate servers shall be considered or existing server can be utilized if feasible.	Separate servers shall be considered.
90.	Vol-4	Ch-9A Clause 2.5.1	Emergency operating conditions	The technical specifications of transformers at RSS may be provided.	The RSS transformers rating are 2x10/15MVA (1 standby) for AMT and 2x21.6/30MVA (1 standby) for traction transformer.

91.	Vol-4	Ch-9A Clause 2.5.2	Maximum speed	The maximum design speed and maximum service/operating speed may be provided.	Both are 100Kmph.
92.	Vol-4	Ch-9A Clause 2.5.3-3	Design of earth quake and wind speed sensing and warning system.	Kindly provide detailed specifications of the same.	(i) Earth quake sensor:- The requirements given in specification are generic in nature. The basic requirement is to detect even feeble earth quakes and generate a alarm in OCC. One node shall be provided at OCC accordingly. Specification given in Ch-14 Clause 2.1 is the basic minimum requirement. (ii) Wind speed sensor: - The requirement is to generate 2 alarm signals at OCC and Station SCR room where this sensor is provided. The quantity will be 5 No's to be provided at Stations. Kindly refer Addendum No.-2
93.	Vol-4	Ch-9A Clause-3-9 Task 6(b)	The work will also include design of the protection scheme of the feeder from source to the DMRC RSS.	We understand that this shall be in the scope of RSS contractor, RSS being a different System relays may be of different make, shall not be in NE01 contractor's scope. Kindly confirm.	Confirmed.
94.	Vol-4	Ch-9A Clause-3-13 Task 10	Designer shall incorporate the necessary provision in the system proposed to enable monitoring and control of traction and auxiliary power supply equipments(upto LT side)	We understand that for LT side only monitoring upto main Incomer is in scope. Kindly confirm.	LT side, both control and monitoring upto main incomer shall be provided by NE-01 contractor.
95.	Vol-4	Ch-9A Clause-3-15-m	Power and control cables run layout diagrams, including cross	NE01 contractor shall prepare cable layout and section drawings for cables	NE-01 contractor shall prepare cable layout and section drawings for cables pertaining to



			section drawing: The layout drawing for cable runs along the section would include cross section drawing of each typical location showing erection arrangement, spacing and also space for S&T and other system wide cables.	pertaining to NE01 contract. Overall integration and space interface shall not be in NE01 contract's scope. Kindly confirm.	NE01 contract including space interface with other contractors.
96.	Vol-4	Ch-9A Clause-3-15-m	Designer shall check the power and control cable run in RSS, from source substation of power supply authority to DMRC RSS	NE01 contract's scope starts from outgoing of RSS. Kindly confirm.	Confirmed.
97.	Vol-4	Ch. 9A - VI	Validation of Design and Installation	Please confirm that auditor can be an independent person not working in the project.  Also please confirm the qualification & experience requirement for the Auditor.	Tender Condition are self explanatory. No Change in Tender Condition.
98.	Vol-4	Chapter 9A 10.4	The DESIGNER shall prepare detailed designs based on the principles for Phase-I, II Project and Design Criteria. Any critical difficulty identified shall be immediately brought to the attention of employer's representative, but not withstanding that, the DESIGNER shall remain totally committed to the overall integrity of the design, if necessary actively seeking advice, information and clarification so as to avoid abortive work.	Please provide details of designs principles of Phase-I, II to be followed for NE-01 Contract.	Required minimum design details have already been given in the tender specifications. Further details, readily available shall be shared with the successful bidder.

99.	Vol-4	Ch. 14 Clause 3	Thermal Imaging System	Please clarify that under which BoQ item, cost of this camera is to be considered.	The cost of Thermal Image Camera (defined in the Minimum List of Spares, Tools & Test Equipments in the PS Volume-4) is considered as a part of DLP obligations. These tools and test equipments shall become property of the DMRC/NMRC at the end of DLP.
100.	Vol-4	Ch-9B	Equipments technical parameters	We understand that the ratings/Technical parameters of the equipments are final. Please confirm if during the Equipment sizing, the ratings of the Equipments can be optimized. In case the increase in the size and rating of the equipment, same shall be adjusted to the contract price.	These are the basic minimum technical specifications. While designing/auditing/validation, if additional requirements emerge, then same will be provided by contractor at no extra cost.
101.	Vol-4	Ch. 10 6.2	Booster Transformer will not be provided in Noida-Greater Noida Section. However reduced size of return conductor of size 93.3 sq. mm Aluminium Conductor Steel Reinforced (ACSR) shall be used.	Please confirm that in case booster transformers implemented, the price of higher size of return conductor shall be adjusted in the contract price.	Any cost difference in the Return Conductor shall be deemed inclusive in the rates of Booster Transformer Milestone O17 of Statement F of the Pricing Document(Volume-7).
102.	Vol-4	Ch-9B Clause 3.4.1.4	Paint Work: Paint work should be suitable for salty sea side atmosphere and has to comply with IEC 60721-2-5	Salty sea side is not applicable to the Noida-G Noida. Kindly confirm that paint should be suitable to site location and in line with IEC 60721-2-5.	No change in Tender Conditions.
103.	Vol-4	Ch-9B Clause 4.2.1	Standards	For 33kV Cables IEC 60502 and IS 7098 Part-2 both are mentioned, kindly confirm which standard to consider.	Please refer Ch-11A, clause 5.1.2 of Vol-4. Accordingly cable has to be procured as per IEC-60502 and test have to be done as per Standards given in the clause above.
104.	Vol-4	Ch-9B Clause 5.3.3.7	The no. and diameter of the copper wire shall be atleast (58x1.8) sq. mm so that copper	Since this is a design and build contract, we understand that it is contractor's responsibility to design	These are the basic minimum technical specifications. Please refer bottom note of cover page of each PS.

			screen is able to withstand specified earth fault current.	metallic screen using specified material and sized to carry calculated earth fault current. Kindly confirm.	
105.	Vol-4	Chapter 9B 4.10.2	2 MVA single Transformer of 33kV/25 kV will be installed in the Depot ASS.	Please provide the technical specifications of the transformer and confirm type test requirement.	Requirement given in Ch-9B clause-5.10.2 (ii) have to be met with and specifications may be designed accordingly by successful bidder. Type test would have to be done.
106.	Vol-4	Ch-9D	Test Sheets	Test sheets of cables are not provided. Kindly provide the same.	Will be provided to Successful Bidder.
107.	Vol-4	Ch-10	Catenary monitoring system	Catenary monitoring system is to be provided in Mainline only and not in Depot (Including Test Track and Entry Exit Lines). Please clarify.	Quantity in Main Line will be 3 nos.
108.	Vol-4	Ch-10	Concrete Poles shall be grouted with dry sand.	We understand that all the poles will be of steel structures. Please confirm.	Kindly Refer Addendum No.-2.
109.	Vol-4	Ch-10	Section insulators... usable at higher speed up to 200kmph	As per chapter 9A," For design purpose maximum speed potential of the Catenary system shall be taken as 100 Kmph." Please clarify the requirements.	Kindly Refer Addendum No.-2.
110.	Vol-4	Ch-10	Special mast/Tubular poles	The locations / details may be provided where these special mast/tubular poles are planned.	Will be provided on main line, depending upon the cost quoted. Hence, taken as an adjustable price item.
111.	Vol-4	Ch-10 Clause 1.1.2	Interlinking of 25kV Supply between Noida-Greater Noida Corridor and Line 3	The 25kV Feeding scheme for the Existing line 3 indicating the location of interlinking may be provided.	Kindly Refer Addendum No.-2.
112.	Vol-4	Ch-10 Clause 1.1.2	Interlinking of 25 kV Supply between Noida-Greater Noida Corridor and Line-3	Please clarify that for control operation of 25 kV interlinking equipment is in NE-01 SCADA scope or not.  In case of requirement of control	1. Modification of 25 kV OHE is in the scope of work in the NE-01 contract on L-3 and N-GN corridor. 2. Modification of 33 kV Auxiliary system at N-GN section would be NE-01 Contractor &

				<p>provision, necessary 25kV network equipment status shall be required from existing SCADA system at OCC over standard open protocol communication (preferable with IEC 104).</p> <p>We understand separate RTU provision at interlinking location shall be provided with control and monitoring signal interface under NE-01 contract. Please clarify.</p> <p>Please confirm the requirement and clarify the boundary post equipment interface requirement under NE-01 contract scope and provision of OCC SCADA interface.</p>	<p>in L-3 (extn) only Breaker would be provided by L-3 (extn) contractor.</p> <p>3. Cabling/joint etc from sector 71 to DMRC L-3 section would be in the scope of NE-01 contractor.</p> <p>4. RTU for control of 25 kV/CB &amp; Isolator etc for feed extn would be in the scope of L-3 contractor. However all cabling etc would be done by NE01 contractor.</p> <p>5. SCADA operations for feed extension for 25 kV would lie at OCC/DMRC. Integration of RTU with the CB shall be in the scope of NE-01 Contractor.</p> <p>6. Interfacing will be done as per interface documents of Chapter-III.</p>
113.	Vol-4	Ch-10 Clause 2.1	Provision of sliding type rigid OHE may be explored for use in depot inspection lines to facilitate crane working for maintenance of air conditioners/roof equipment of the train sets	<p>The length and number of Inspection lines in the depot where sliding type Rigid OHE is planned is required. Technical Specifications of Sliding Type rigid OHE may be provided.</p>	<p>These will be no sliding type rigid OHE in Depot. Please refer addendum No.-2.</p>
114.	Vol-4	Ch-10 Clause5.4	Automatic Tensioning devices	<p>The max tension length mentioned is 1120mt.</p> <p>As per chapter 9A, Cl 2.1.5, the tension lengths shall normally be limited to 1,500m.</p> <p>Please confirm that contractor shall design the tension length and shall be subject to Employer's acceptance.</p>	<p>Kindly Refer Addendum No.-2.</p>

115.	Vol-4	Ch-10 Clause 7.1	Contact wire: Silver bearing copper contact wire should be used in main line as adjustable price and copper contact wire should be used in depot.	Please clarify if silver bearing copper contact wire or copper contact wire shall be considered in main line.	Only Copper Contact Wire shall be considered for the Depot. DMRC may go for Silver Bearing Copper Contact Wire for mainline by paying the adjustment price quoted in Statement E of Pricing Document (Volume-7). Which is part of tender evaluation.
116.	Vol-4	Chapter 10 7.1	Silver bearing copper contact wire should be used in main line as adjustable price and copper contact wire should be used in depot.	We understand that in 'Statement C' of BoQ, bidders need to quote the prices considering complete length (Depot + Main line) as copper contact wire and the prices for silver bearing cu need to be separately quoted in Statement "E. This would mean that prices for contact wire shall be evaluated	The bidder has to quote in Statement C considering the use of normal copper contact wire of min. 107 sq mm for the entire section. If DMRC decides to go with Silver Bearing Copper Contact Wire, then the differential cost quoted in statement-E shall be added to the Price in Statement-C. If the differential cost quoted is negative then the differential cost shall be deducted from the Price in Statement-C. For Example: INR 100 is quoted for Contact Wire in Milestone B1-1 c (for 9.488 RKM) and unit price for differential cost per RKM is USD 100. If DMRC decides to go for Silver bearing Copper Contact Wire then the contractor shall be allowed to claim for (USD 100X 9.488 RKM)+(INR 100).  The total price of this statement shall be used during financial evaluation for assessing L-1 bidder.
117.	Vol-4 & Vol-5	Drg No. NE-01-T-DP-GANT-1001-0	As per Drg No. NE-01-T-DP-GANT-1001-0, supply to 2MVA traction trafo at depot is from RSS feeder, whereas as per Auxiliary Power Supply Diagram " NE01-T-AX-TYPE-1000-0, 2MVA traction trafo is	Kindly confirm 33kV supply to traction trafo at depot shall be fed through RSS or rolling stock depot ASS. Kindly confirm. For the case feed from RSS distance between RSS and depot need to be provided.	Please refer to revised auxiliary power supply diagram attached as addendum (vol V).

			fed by 33kV supply from rolling stock depot ASS.		
118.	Vol-4	2.2.4.2	As per Ch-1 Cl: 2.2.4.2, No of ASS are 21 and as per 33kV SLD “drg No. NE01-T-AX-Type-1000-0”, No. of ASS are 22 (including rolling stock depot ASS).	Kindly confirm if total no. of ASS are 22 or rolling stock depot ASS and depot station ASS are same	Kindly Refer Addendum No.-2.
119.	Vol-4	Chapter 11 1.5 & 2.3	MANNING OF COMMISSIONED ASS’S/Switching Stations NE-01 Contractor shall be paid under the relevant BOQ item, for the services.	Item for Manning is not defined in the BoQ. Kindly Clarify	Kindly Refer Addendum No.-2.
120.	Vol-4	Ch-11A Clause 1.2.1	4 PD locations (i.e. 2 breakers and one transformer at each PD stations) are indicative and same may be shifted to any other station as per detailed design without any financial implication. One additional breaker will also to be provided for future expansion in PD load at four PD stations.	As per 33kV SLDs PD transformers are located inside ASS. 2 breakers and one transformer configuration is not applicable for PD. Kindly confirm if configuration as per SLD shall be considered.	Kindly Refer Addendum No.-2.
121.	Vol-4	Ch-11A Clause 3.3.1.b	Room Size: Room with minimum ht. of 4.0 metre will be provided in transformer and panel area.	We understand that a minimum height of 4 metre shall be provided under the roof beam. Please confirm.	Successful bidder need to interface with civil contractor during design stage.
122.	Vol-4	Ch-11A Clause 3.4 d.	Temperature Protection: This shall consist of two sensors placed on each low voltage winding: one alarm sensor and one trip out sensor.	With advanced WTI scanner, one sensor shall be utilised for generating alarm as well as trip signals and other sensor can be wired to terminal as spare for future use. Kindly confirm.	Shall be discussed during detailed design finalization. No financial repercussions on this account shall be acceptable.

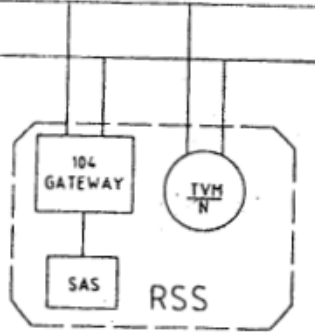
123.	Vol-4	Ch-11A Clause 3.4.2.b.2.c-i)	GIS supplier should have minimum experience of 05 years for manufacturing of similar GIS substations. The type of GIS offered should have been in satisfactory operation for at least three years. Contractor should submit performance certificate from the employer	We understand that the type of GIS offered should have been in satisfactory operation for at least 3 years in Metro System. Please confirm.	No Change in Tender Conditions.
124.	Vol-4	Ch-11A Clause 3.4.2.b.2.c-ii)	The 33kV equipment shall be built according to the SF6 gas insulation technology.	We understand that 33 kV GIS shall be built according to SF6 gas insulation technology. All active parts including the busbars shall be completely encapsulated in SF6 gas. The hybrid solutions wherein the busbars are partly insulated through SF6 gas and partly through other means, shall not be acceptable. Please confirm.	No Change in Tender Conditions.
125.	Vol-4	Ch-11A Clause 3.4.2.b.2.c-v)	In the event of arcing in a compartment, the arc should not extend to the neighbouring compartment. Any failure to the enclosure of the compartment shall not lead to damages in the neighbouring compartments.	We understand that arcing in one phase should not get extended to the other phases for the purpose of high reliability and minimizing the damages. Please confirm.	No Change in Tender Conditions.
126.	Vol-4	Ch-11A Clause 3.4.2.f.6, 3.4.3	Where interlocking over a distance is required two independent criteria shall be used, e.g. absence of voltage and remote feeding circuit breaker open. Indication of the remote condition shall be by single purpose circuit, care being taken	We understand that the interlocking requirements defined under clause 3.4.3 do not require laying of a separate screened cable to achieve interlocking over a distance. Please confirm that our understanding is correct.  If not, please clarify that for which	No Change in Tender Conditions.

			that conductors used are adequately screened and shielded to minimise both transverse and longitudinal voltages.	interlocking requirement this screened cable has to be provided through out the corridor.	
127.	Vol-4	Ch-11A Clause 3.4.2.h.1	All earth bars and terminals including those in the switchboard and inside the ASS shall be tinned copper.	It is not usual to use tinned copper for these application, we request you to allow to use bare copper.	No Change in Tender Conditions.
128.	Vol-4	Ch-11A Clause 3.4.2.h.1	The earth bus bar shall be rated to carry currents equal in magnitude and duration to that associated with short circuit rating of equipment.	We understand that earth bus bar shall be rated according to the earth fault current of 33 kV system. Please confirm.	No Change in Tender Conditions.
129.	Vol-4	Ch-11A Clause 3.4.2.k	Suitable cover should be provided in cable entry location of GIS.	We request you to review the requirement as it is not applicable for GIS.	No Change in Tender Conditions.
130.	Vol-4	Ch-11A Clause 3.4.3.4	Lock interlocking of Earthing Isolator.	Lock earthing between two stations would be achieved through SCADA for remote operation and padlock for local operation. Please confirm.	Confirmed.
131.	Vol-4	Ch-11A Clause 3.4.6 b.	The precise capacity of battery shall be determined to ensure total autonomy of the station for 8 hrs as required to retain the power supply of the standby lighting and of the control/auxiliaries in case of total failures of the AC sources.	Standby lighting shall not be in scope of the battery sizing, kindly confirm or please define load of standby lighting to be considered.	Standby lighting not to be considered by NE-01 contractor for calculating the battery size.
132.	Vol-4	Ch-11A Clause 3.4.7	These cabinets shall be equipped with doors, fitted with flexible seals, close via lock-bars and on which shall be installed a mimic	A mimic diagram with signalling lights is not possible in ACDB, DCDB. SLD shall be pasted on inner door of ACDB, DCDB. Kindly confirm.	Confirmed.



			diagram with signalling lights denoting the position of the main apparatuses.		
133.	Vol-4	Ch-11A Clause 4.3.2.g	Synchro coupler Relay	Synchro coupler relay is not applicable as paralleling is not allowed and implemented through interlocking. Kindly confirm.	Confirmed.
134.	<b>No query raised by the Contractor</b>				
135.	Vol-4	Ch-12A Clause 1.1	The main and redundant RTUs provided for each post shall be provided with minimum 3 ports.	Please clarify & confirm that for each post/location redundant RTUs have to be provided or only one RTU has to be provided with necessary redundant modules.	At each post/location only one RTU has to be provided with necessary redundant modules.
136.	Vol-4	Ch-12A Clause 1.4	Further data of Energy meters will not be available from bay controllers. The energy meters will be connected directly with ECC on separate redundant communication link. The necessary communication devices and communication links to meters to achieve above will be provided by SCADA contractor under NE-01 contract.	As per our understanding Energy meter data interface to OCC/BCC is generally through either Gateway (In scope of SAS Contractor) or through separate RTU. So please clarify that whether Energy Meter data shall integrate in Gateway or in separate RTU. Also clarify the scope in case of separate RTU.	Please refer to Ch-12A, Cl-1.4 of Vol-4. It is further clarified here that ECC is only a part of OCC/BCC for SCADA and there is no separate physical entity as such.
137.	Vol-4	Ch-12A Clause 4.5	For the depot with several ASS rooms, separated RTU's for each ASS room will be Provided. Depot Feeding Post will be connected to Depot ASS RTU.	As per clause 4.4 of volume 4 chapter 12A, "An RTU independent of ASS Depot RTU is to be provided for monitoring Feeding Post in Train Depot". So please confirm if separate RTU for Depot Feeding Post is required or not.	Separate RTU has to provided as per Clause 4.4 of Ch-12 A of Vol-4.

138.	Vol-4	Ch-12A Clause 8.2	AUXILIARY SUBSTATIONS (UG ASS)	As per Clause 4.2 of volume 4 chapter 1 Noida-Greater Noida Corridor contains only elevated stations only. We understand that this is typographical error, kindly confirm.	Confirmed.
139.	Vol-4	Ch-12B Clause 6	Uninterrupted Power Supplies & Auxiliary Power Supply Distribution	As per standard DMRC practice Uninterrupted Power Supplies (UPS) provision at control centre building shall be through common system to avoid extensive space and maintenance requirement.  As per standard practice Common UPS for different vendors (such as Power SCADA, Signalling, Telecom, E&M, etc) shall be provided at Control Centre.  Please confirm if the requirement is of separate UPS for SCADA under NE-01 contract. Also confirm 20kVA rating of UPS.	Kindly refer CI-6.1 of Ch-12B of Vol-4 of tender conditions.
140.	Vol-4	PS Chapter 13	Contractor shall provide & maintain an emergency road vehicle (with driver) in good working condition all the time and keep all spares and T&P in accordance to the List as per Table 2.	We understand that emergency road vehicle is to be provided by the NE-01 contractor only during the DLP and maintenance period. After that it will be the property of Contractor. CMV will be provided by DMRC.  Please confirm.	Emergency Road Vehicle shall be provided during the DLP/AMC period by the Contractor. The Emergency Road Vehicle shall remain the property of the Contractor after the end of DLP/AMC. Catenary Maintenance Vehicle shall be provided and maintained by other contractor. However, the NE-01 contractor shall ensure that the CMV is properly maintained and keep proper records for the same.

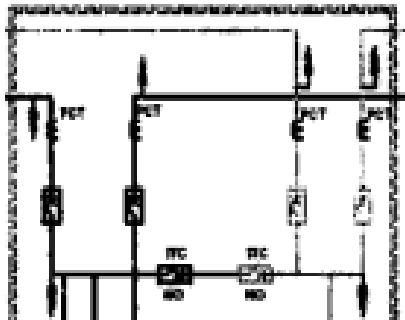
141.	Vol-4	PS Chapter 13	If any additional spares, Tools & Test Equipment apart from the ones mentioned above are required during the DLP/AMC period the same will be arranged by the contractor, without any Extra Payments.	We understand that in addition to the list of tools & spares provided in this section, Contractor only need to provide consumable spares if required.  Any major spares which are not included in the list will be provided by DMRC. Please confirm.	No change in Tender Conditions.
142.	Vol-4	Ch-13	“Maintenance Schedule of SCADA System” Take the application backup of Micro SCADA Database. Check the Control Transfer function between OCC, ISBT and Rithala.	Provision of Micro SCADA application backup indicates vendor specific requirement. Kindly confirm requirement of the same. Also, control transfer function between OCC, ISBT and Rithala requirement from existing SCADA need to be clarified.	Provision of Micro SCADA application back up shall be required. Control Transfer function between OCC, ISBT and Rithala is a typographical error.
143.	Vol-4	Dwg. No. : NE-01-T-CM-TYPI-1001-0	As shown in referred drawing TVM is hooked up directly to SCADA VLAN on OFC ring. 	As per our understanding Tri Vector Meter (TVM) or Energy Meter data interface to OCC/BCC is generally through either Gateway (In scope of SAS Contractor) or through separate RTU. So please clarify that whether TVM shall integrate in Gateway or in separate RTU. Also clarify the scope in case of separate RTU.	Please refer to Ch-12A, CI-1.4 of Vol-4. It is further clarified here that ECC is only a part of OCC/BCC for SCADA and there is no separate physical entity as such.
144.	Vol-4	Vol-5	Traction feeding diagram	Drawing no : NE-01-T-TN-DP-1000-0 is not matching with NE-01-T-TN-TYPI-1000-0	Please refer Addendum No.-2forboth the Drawings.

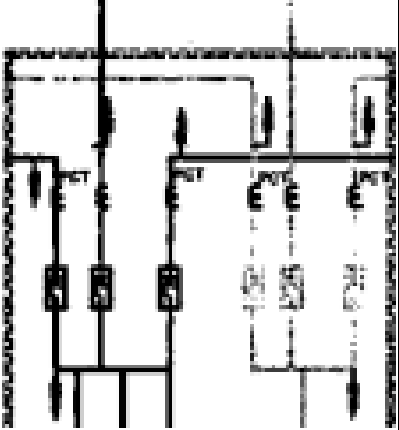
145.	Vol-4	Vol-5	Alignment drawings	As indicated in Drawing no : NE-01-T-TN-TYPI-1000-0, there is no third line/siding line in Alignment drawing no : DMRC/NOIDA-GREATER NOIDA/GAD/2014	Please refer to traction feeding diagram given invol V ref. Addendum No.-2.
146.	Vol-4	Vol-5	Alignment drawings	As indicated in the alignment drawings and Traction feeding diagram (Drg No: NE-01-T-TN-TYPI-1000-0), all the siding / third lines (At stations Sector 142, Sector 144, and at Depot Station) will be for future extensions and are not part of NE-01. Please confirm.	Please follow traction feeding diagram given in Vol-V refer addendum no-02,
147.	Vol-5	-	-	Scanned version of drawings is not clearly readable. Please provide the Electronic copy of drawings.	Alignment drawings in PDF will be provided.
148.	Vol-7	-	Price Schedule (BOQ)	The BOQ is to be uploaded in excel format on the e-tendering portal <a href="http://www.tenderwizard.com/DMRC">www.tenderwizard.com/DMRC</a> . However, there is no mention about the provision to upload any additional document, like Discount Letter, along with the Price Schedule. Please clarify.	Kindly refer Addendum no.-02
149.	Vol-7	Statement C	-	Cost center total carried to section summary is the sum of individual milestone as well as their sub-part. This is leading to double addition of values provided. For e.g. B 1-1 (a,b,c,d). Kindly clarify.	The Bidders to ensure that the price is quoted only in the subheadings (wherever provided) of the Milestone. For example in milestone B1-8, contractor should quote only for sub heading (a),(b),(c),(d),(e),(f),(g),(h) only. Nothing has to be quoted in front of row B1-8.  For milestone where there is no sub-headings e.g. D1-1, the contractor has to quote in the

					heading itself. Kindly refer Addendum No.-2..
150.	Vol-7	Statement D, MC1	Delivery of Spares	Kindly explain the correct allocation for the cost of Mandatory spares, Unit exchange Commissioning spares, DLP spares & AMC spares.	Kindly Refer Addendum No.-2

S. No.	Tender Volume	Ref. Clause	As per Tender	Query/Clarification	DMRC's Reply / Clarification
151.	Vol 1,	clause 1.1.4.2 A	<p>Work Experience: The tenderers will be qualified only if they have completed work(s) during last ten years ending 31.05.2015 as given below:</p> <p>(i) At least one work of Supply, Installation, Testing And Commissioning of 15 kV and -above Traction (Flexible OHE) Systems. Of value of Rs. 80 crores or more. OR (ii) Two works of Supply, Installation, Testing And Commissioning of 15 kV and -above Traction (Flexible OHE) Systems. Each of value of Rs. 50 crores or more. OR (iii) Three works of Supply,</p>	<p>1) The overhead catenary design and installation works for Metro system are quite different from the main line execution. Please confirm if the mainline works will also qualify as eligible work experience.</p> <p>2) Considering the fact that Metro Traction electrification work packages are a combination of OHE and PSI works, we request you to modify the requirements as follows</p> <p>(i) At least one work of value of Rs. 80 crores or more consisting Supply, Installation, Testing And Commissioning of 15 kV and -above Traction (OHE) Systems. (ii) Two works Each of value of Rs. 50 crores or more consisting Supply, Installation, Testing And Commissioning of 15 kV and -</p>	Kindly refer to addendum No-02

			Installation, Testing And Commissioning of 15 kV and -above Traction (Flexible OHE) Systems. Each of value of Rs. 40 crores or more.	above Traction (OHE) Systems. OR (iii) Three works Each of value of Rs. 40 crores or more consisting Supply, Installation, Testing And Commissioning of 15 kV and - above Traction (OHE) Systems.	
152.	Vol 1,	clause 1.1.4.1(ii)a	A non-Indian firm is permitted to tender only in a joint venture or consortium arrangement with any other Indian firm having minimum participation interest of 26% or their wholly owned Indian subsidiary registered in India under Companies Act-1956 with minimum 26% participation	1) We request you to modify the clause as follows A non-Indian firm is permitted to tender only in a joint venture or consortium arrangement with any other Indian firm having minimum participation interest of 26% or their wholly owned Indian subsidiary registered in India under Companies Act-1956 with minimum 26% participation 2) We understand that if a non-Indian firm is participating with it's Indian subsidiary, then Indian Subsidiary shall have minimum 26% participation. There is no minimum percentage participation limit for the non-Indian firm. Please confirm	Tender Conditions are self explanatory. No Change in Tender Condition.
153.	Vol-1	Appendix 1A SCHEDULE OF KEY DATES	General	<ul style="list-style-type: none"> <li>We request you to provide the Access dates of Sub-station/Switching rooms and viaduct from civil contractor.</li> </ul>	Contractors to coordinate for the access dates with other contactors and employer will facilitate the same.
154.	Vol-4	Table:5.3 S.No: 5 Ch-11A Clause 3.3b	Table 5.3,S.No 5: ..SBC will provide the necessary cut-outs for cables entry and exit	<ul style="list-style-type: none"> <li>We understand floor cut-out shall be provided by Civil contractor for cable entry/Exit into panels/Trafo /Battery charger etc.</li> </ul>	Co-ordination is in the scope of this contract.Cut outs during casting shall be provided by civil contractor.

			Ch:11A, Clause 3.3.1: The ASS located in the station may have bottom or top cable entry of cables depending on availability of space.	Kindly confirm. • Please provide typical cross section drawing of substation.	
155.	Vol-4	Ch-11A Clause: 3.3b	The ASS located in the station may have bottom or top entry of cables depending upon availability of space. NE01 contractor should interface with civil contractor and architect in this regard.	• We understand that necessary cutouts or raised platform with cutouts inside ASS for cable entry to equipments shall be arranged by Architect and civil contractor as per the requirement of NE01 contractor. Kindly confirm.	No change in tender conditions.
156.	Vol-4	Auxiliary Power Supply Diagram	Sector-144 and Sector-147 have two Nos ITC connected to bus, Typical scheme is extracted below: 	• We understand that this is a drafting error and only one no. ITC shall be considered as panels are part of one switchboard and placed in one ASS only. Kindly confirm.	Kindly refer Addendum No.-2.

157.	Vol-4	Auxiliary Power Supply Diagram	<p>Sec-71 SLD, Incomer from Line-3 has no line PT. Scheme extracted below:</p> 	<ul style="list-style-type: none"> <li>We understand that this is a drafting error and PT shall be considered on Incomer from Line-3 as energy metering is required on Line-3 incomers.</li> </ul>	Kindly refer Addendum No.-2.
158.	Vol-4	Chapter 9A, 2.0 Design Parameters 2.1 Overhead Equipment (OHE)	Provision of sliding type rigid OHE may be explored for use in depot inspection lines to facilitate crane working for maintenance of air conditioners/roof equipment of the train sets.	IS this retractable conductor rail? Please confirm.	There will no sliding type rigid OHE. Please refer Addendum No.-2.
159.	Vol-4	Chapter 10, 5.4 Automatic Tensioning Devices	.4.1. "...The ATD's used shall be either of 5 pulley block type or of spring type. Normally 5 pulley block type ATD shall be provided on the viaduct & inside the depot. However, at critical location, where any remote possibility of ATD falling down accidentally on the traffic below the road; Spring type ATD shall be provided. Spring type ATD shall also be provided on the ramps, where there is limited	Is the 5% realistic – track layout shows the track close to or above traffic/public area. Please confirm.	Kindly refer Addendum No.-2.



			height available for counterweight movement. Use of spring type ATD shall be approximately 5% of the total number of ATDs, used overall in the system. However actual will worked out during detailed design stage.”		
160.	Vol-4	Chapter 10, 2.1.5 Tension and Tension Length	2.1.5 Tension and Tension Length ... Spring Type/Pulley type ATDs (standardized design) shall be used for mainlines. Five pulleys type ATDs can be used in Depot areas.”	Are 3 pulley tensioning devices also permitted?	No change in Tender Conditions.
161.	Vol-4	Chapter 10	Contractor must ensure the adequate supply of spares (10%) of the material and unconditional support during the operational period ie. Even after completion of DLP, AMC & upto the life span of minimum 30 years.	10 % spare parts seems too much. Normally spare parts for 1 tensioning length is sufficient. Please clarify.	Kindly refer Addendum No.- 2..
162.	Vol-4	Chapter 10, 7.8 Jumpers	7.8.1 Three sizes of jumpers will be used in the OHE. “- 26 sq mm jumper of annealed copper, consisting of 19 strands, each strand containing 7 wires each of 0.5 mm diameter, with a nominal Cross Section of 26 sq mm and diameter of 7.5mm. This is used as In-span jumper. - 105sq mm Jumper of annealed copper ,consisting of 133 strands each of 1.013mm diameter , with a nominal cross section of 105 sq	Would wire 95 BzII instead of 3 different sizes also be acceptable?  Will this be a Booster system?	No change in Tender Conditions.

			<p>mm and diameter of 15.2mm . This is used as continuity jumper.</p> <ul style="list-style-type: none"> <li>- 240 sq mm Jumper of annealed copper, consisting of 637 strands each of 0.7mm diameter, with a nominal cross section of 240 sq mm and diameter of 23.1 mm. This is used as continuity jumper.</li> <li>- Each Jumpers of Booster transformer, switching posts, section insulators should be supported on at least two nos. of pedestal insulators in such a manner that loose/ hanging jumpers are avoided.</li> <li>- Each Jumper of 25 kV potential transformers &amp; 42 kV lighting Arrester shall confirm to RDSO Specification. - All Jumpers shall be connected with bimetallic strip where two different metals are connected.</li> </ul>		
163.	Vol-5	NE-01-T-AX-TYPI-1000-0 vs. NE-01-T-AX-S71-1000-0	Metering required	Please provide detailed information on the metering Accuracy, type of instrument, required supplier of metering device	It shall be discussed during detail design finalization.
164.	Vol-5	NE-01-T-AX-S83-1000-0	Interface to AMS	Please confirm whether Interlocking, Inter tripping required?	Interlocking and Inter tripping shall be required.
165.	Vol-5	NE-01-T-AX-S153-1000-0	Interface to AMS	Please confirm whether Interlocking, Inter tripping required?	Interlocking and Inter tripping shall be required.
166.	Vol-5	NE-01-T-AX-	Comparison of these drawings	Please provide more information on the correlation of these	Please refer clause 1.4.3 of

		DEPOT-1000-0 NE-01-T-DP- GANT-1000-0 NE-01-T-DP- GANT-1001-0		drawings. Protection concept for the 33/25kV transformer? In NE-01-T-DP-GANT-1000-0 the CB102 is a motorized disconnector, the related device in NE-01-T-DP-GANT-1001-0 is CB4 which is a circuit breaker. Please clarify. What is the operational concept (local, remote, manual, motor operated?) of the devices CB102, SS106, SS107, SS105, CB101? NE-01-T-DP-GANT-1000-0 Precaution (3): When CB2 is open, depot can no be fed via CB1. Please clarify.	chapter 11 A, volume 4 (addendum). Detailed designing to be done by successful bidder.
167.	Vol-4	Chapter 10 Clause 1.2	approx.100m ROCS System for Elevated Sections, in the Ramp and in the Depot, is within the Scope of this Tender.	<ul style="list-style-type: none"> <li>We request you to provide the tentative location/chainage for 100 Metre ROCS system to be installed.</li> </ul>	Necessary details will be provided to successful bidders. The tentative location for the 100 m e-ROCS is where 400 kV Transmission Line is crossing the metro alignment.
168.	Vol-7	Chapter 1- CI 7.1	Note: Silver bearing copper contact wire should be used in main line as adjustable price and copper contact wire should be used in depot.	<ul style="list-style-type: none"> <li>We understand that bidder has to quote the price of Copper contact wire in statement C of BoQ and the price difference of Silver bearing Cu contact wire on lump-sum is to be in Statement E. Please confirm.</li> </ul>	The bidder has to quote in Statement C considering the use of normal copper contact wire for the entire section. Differential price for using Silver bearing Copper Contact wire in 29.139 RKM (by providing per RKM unit cost) is to be quoted in the Statement E. Kindly refer Notes 1 of Statement E of pricing Document (Volume-7)
169.	Vol-7	Chapter 1- CI 7.1	Note: Silver bearing copper contact wire should be used in main line as	<ul style="list-style-type: none"> <li>Copper contact wire normally available in the Indian</li> </ul>	Please refer clause no C16 of ITT volume 1 regarding

			adjustable price and copper contact wire should be used in depot.	market and will be quoted in INR, however Silver bearing Cu contact wire may be procured from international market and may be quoted in foreign currency. Please clarify how this calculation to be exercised. <ul style="list-style-type: none"> <li>• Same question is for Tubular poles.</li> </ul>	currency.
170.	Vol-1	NIT	Date & time of Submission of Tender 29.06.2015 @ 15:00 Hrs.	<ul style="list-style-type: none"> <li>• Submission timeline is too early to prepare for a good quality offer.</li> <li>• <b>We Request for a time extension of 4 weeks in Bid Submission Date.</b></li> </ul>	Kindly refer Addendum No. 2.

Sl. No.	Tender Volume	Ref clause	As per Tender	Query / Clarifications	DMRC Reply / Clarification
171.	Vol. – 4	5.1.3 & GTP 10	As per GTP : 10, 33Kv cables, page 23-24/24, cables are unarmoured. As per clause 5.1.3.i cables are armoured.	Please confirm it cables are armoured or unarmoured.	33 kV cable shall be armoured. Please refer Ch-11A, C1 5.1.3 and Ch-11B GTP 10 of Vol-4 for 33 kV specifications
172.	Vol. – 4	5.3.3.9 & GTP 10	As per clause 5.3.3.9, Page 23/37 ch-9B,25kv cables are armoured. As per GTP 10.25kv cables: Ch-9C, page 12/14, cables are unarmoured.	Please confirm it cables are armoured or unarmoured.	Please refer GTP of Chapter - 9B, there is no armour/unarmoured specified, Para 5.3.3.9 chapter 9 B specified about armour.
173.	Vol. - 4	GTP 11 & C1 7, chapter 9B	As per GTP (11) 3.3KV cable, Ch. – 9C, page 13/14, 3.3KV cables are unarmoured. As per clause-7, chapter 9B, page 34/37, 3.3kv cables are armoured.	Please confirm if 3.3kv cables are armoured or unarmoured.	Please refer GTP of Chapter - 9C, there is no armour/unarmoured specified, Para 7 chapter specified about armour.

S. No.	Tender Vol.	Pg No.	Ref. Clause	Description as per issued Document	Bidder's Queries	DMRC Reply/Clarification
174.	Vol1	1	NIT, 1.1.2	Key Details:- Last date of Seeking Clarification: 05.06.2015	We are under the process of going through in detail the issued tender documents. However please appreciate the fact that with such a short period between 19th May 2015 and 5 <sup>th</sup> June 2015, it is not possible to do a full analysis taking into consideration that this is a Design based tender. We, therefore require some more time in order to properly read & appreciate the Tender Documents and request for an extension of 7 Days from the specified last date for seeking clarification.	Kindly refer Addendum No. 2.

175.	Vol1	3	NIT,1.1.4.1 (iv)	A firm, who has purchased the tender document in their name, can submit the tender either as individual firm or in joint venture/Consortium. However, the lead partner in case of JV shall be one who has experience of Viaduct/Bridge/Flyover	We request that clause be amended as below since experience of Viaduct, Bridge and Flyover pertain to civil contractors: “A firm, who has purchased the tender document in their name, can submit the tender either as individual firm or in joint venture/Consortium. <del>However, the lead partner in case of JV shall be one who has experience of Viaduct/Bridge/Flyover”.</del>	Kindly Refer Addendum No.-2
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176.	Vol1	10	ITTA1.1	<p><b>The brief Scope of works in this Contract is under:- Contract NE-01</b>  "Supply, Installation, Testing and Commissioning of 25 kV Overhead Equipment (OHE), 33 kV Auxiliary Power Supply and SCADA Systems for Elevated Corridor of Noida-Greater Noida Section (21 Stations, 29.139 RKM) and Rolling Stock Depot at Greater Noida”.</p>	<p>As per Vol1, NIT, Cl 1.1.1 the scope of the Tender NE-01 is: “Design, Verification, Detail Engineering, Manufacture, Supply, Installation, Testing and Commissioning of 25 kV Overhead Equipment (OHE), 33 kV Auxiliary Power Supply and SCADA Systems for Elevated Corridor of Noida-Greater Noida Section (21 Stations, 29.139 RKM) and Rolling Stock Depot at Greater Noida under the CONTRACT PACKAGE – NE-01</p> <p>Please include the scope of Design, Verification, Detail Engineering, Manufacture in the brief scope description</p>	<p>Kindly Refer Addendum No.-2.</p>
177.	Vol 1	13	ITT A7	<p>Site Visits to the Site of Works / existing similar installations in DMRC</p>	<p>Request to please arrange a common site visit along with DMRC representative.</p>	<p>As intimated during Pre Bid, the same has been arranged on 12.06.2015. Reporting time is 1000 hrs at Metro Bhawan. Bidders to take note of clause B2.3 of ITT (Volume-1)</p>



178.	Vol 1	23	ITT C12.3	<p>In case the successful tenderer is a JV/Consortium having a foreign partner and if the experience of electrical works for the purpose of qualifying the minimum eligibility criteria is fulfilled by the foreign partner then the foreign partner shall submit an additional Bank Guarantee (In addition of performance security) of an amount equal to 1% of the contract value as per LOA for the fulfilment of the condition of deployment of key staff and the expatriate Project Manager for the project.</p>	<p>As per Form Of Tender- Appendix 16: Minimum Staff requirement:</p> <p>Chief Project Manager= 1 Project Manager=3</p> <p>Please confirm:</p> <ol style="list-style-type: none"> <li>1. Expat requirement is for CPM only.</li> <li>2. Also confirm the period of requirement.</li> <li>3. Please confirm the number of expatriate project managers required and also the country of eligibility.</li> </ol> <p>Further the role of other country of Origin may be limited to Simulation and some Imports supply only. So Expat requirement does not arise.</p> <p>Please note that 25kV OHE system in India is quite a matured technology used in multiple Urban Metro Systems in India and Indian Railways, being executed successfully by Indian entities and hence the requirement for an expatriate (Non-Indian) Project Manager is not warranted as adequately experienced personnel may be available locally.</p>	<p>Clause is self explanatory. The deployment of key staff (i.e. CPM and minimum one project manager) will be from the foreign partner and up to completion of defect liability period (DLP) .</p>
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179.	Vol1	73	FOT, Form of Tender-Appendix 1	<b>Liquidated Damages= 0.5% of the contract value per week of delay</b>	<p>Please mention the overall Capon LD to be at par with industry practice.</p> <p>Such liquidated damage shall be 0.5% of the contract value per one week delay with an upper limit of 10% of the contract value.”</p>	Tender Conditions are self explanatory. No Change in Tender Conditions.
180.	Vol2	12 of 66	GCC4.2.4	<p><b>Access to and Possession of the site</b></p> <p>For any such delay in handing over of site, Contractors will be entitled to only reasonable extension of time and no monetary claims whatsoever shall be paid or entertained on this account.</p>	<p>We suggest that the clause be amended as follows:</p> <p>“.....For any such delay in case of an inordinate delay in handing over of site, Contractors will be entitled to both reasonable extension of time and cost to which the Contractor may be entitled to.”</p> <p>It is only fair and reasonable that if there is an inordinate delay and is on account of failure of the Employer in granting the access to Site provided the drawings, the Contractor is entitled to both EOT and costs. Please confirm and issue an amendment accordingly.</p>	No Change in Tender Conditions.

181.	Vol2	16 of 66	GCC4.2.4	<p>Within 30 days of the date of Letter of Acceptance of the Tender, the Contractor shall submit to the Employer:</p> <p>(a) An Undertaking in the approved format from a parent company, the identity of which shall have been submitted in writing to the Employer prior to acceptance of the Tender and against which the Employer shall have raised no objection.</p> <p>(b) A written Guarantee in the approved format from a parent company, the identity of which shall have been submitted in writing to the Employer prior to acceptance of the Tender and against which the Employer shall have raised no Objection.</p>	<p>We propose to submit a Comfort letter from our Parent Company, as submitted in earlier other projects in India that this is acceptable.</p>	<p>No Change in Tender Conditions.</p>
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182.	Vol. 2	34 of 66	GCC 6.13	Claim on account of violation of Labour Laws	<p>Werequestthatthe clause beamendedasbelow:</p> <p>“Ifanymoneyshall,as a resultofanyinstructions, directionsordecisionsfromtheAuthorities orclaimor applicationmade under any of the labour laws or regulations,bedirectedtobepaidbytheEmployer,such moneysshallbedeemedtobemoneyspayable tothe EmployerbytheContractorandhe willpaythesameto theEmployerforthwithondemandprovidedtheEmployer shallnotmakeanysuchpaymentswithoutgivingaprior writtennoticeintimatingtheContractoronthetheissueand grantingareasonableopportunity totheContractorto placehisdefence.withoutdemurandwithoutaskingfor anyreasons/explanationsfromtheEmployer”</p> <p>Reason:ItisfairandreasonablethattheContractorgetsan opportunitytodefenditselfinrespectofthealleged non-compliancesastherecouldbevariousreasonsforthe same.....for examplecertainactivities undertakenby Alstomarenotcoveredunderthe BOCWAct, soif a noticeisissuedfornon-compliancesunderBOCW Act, Alstom shall begivena chancetoexplainthe reason behindtheallegednon-compliancebeforetheEmployer goesaheadandpaysthefine/penalty.</p>	No Change in Tender Conditions.
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					Further, all moneys dues should be adjusted under the present contract and no other contract between the Employer and the Contractor should be impacted for any default occurring under the present contract.	
183.	Vol 2	40 of 66	GCC 8.8	<p><b>Consequences of Suspension</b></p> <p>The Contractor shall not be entitled to extra cost (if any), incurred by him, during the period of suspension of Work., if such suspension is.....(d) necessary for the safety of adjoining public or other property or safety of the public or workmen or those who have to be at the site or (e.) to ensure safety and to avoid disruption of traffic and utilities, as also to permit fast repairs and restoration of any damaged utilities.....</p>	Such need for ensuring safety of adjoining public or other property etc. could arise due to default of the interfacing contractors as well. In case of suspension to tackle this situation, Contractor should not be devoid of at least the daily costs it would be incurring on account of idle labourers, plants and machinery. Hence, request you to remove sub-clause (d) and (e) GCC Cl. 8.8.	No Change in Tender Conditions.

184	Vol 2	42 of 66	GCC 10.1	<p>“Defects Liability Period” shall mean the defects liability period stated in the Special Conditions of Contract calculated from the date of taking over of the Works. Provided that, if any part of the Works or sub-systems or component of that part has been replaced, renewed or repaired except minor repair, the “Defects Liability Period” in respect of that part or sub-system or components of that part shall start from the date such replacement, renewal or repair has been completed to the satisfaction of the Engineer.</p>	<p>Rolling DLP without a cut-off date can turn out to be taxing for the Contractor. Hence, request you to amend as follows:</p> <p>“Provided that, if any part of the Works or sub-systems or component of that been replaced, renewed or repaired except minor repair, a maximum cap up to the expiry of the original Defect Liability Period as stipulated in the Contract Agreement on such replacement/modification of defective items from the date of taking over of the corresponding section is agreed to.”</p> <p>This is fair and reasonable.</p>	<p>No Change in Tender Conditions.</p>
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185	Vol2	49 of 66	GCC11.6	Payment-InterimandFinal	Inthe eventoffailureofthe Engineer/Customerto accept/rejecttheinvoicesasraisedbytheContractor and/orintheissuanceoftheinterimpaymentcertificate and/orfinalpaymentcertificatewithinaspecifiedperiod oftime(foreg. Within20 days),thesame shallbe deemed to be approvedthus makingthe Contractor entitledtopaymentaspertheinvoiceinquestionn.	No Change in Tender Conditions.
186	Vol2	42 of 66	GCC13.2.1	TheEmployershallbeentitledto terminatetheContract iftheContractororanyoneofitscons tituents, (i)failstotakestepstoemploycom petentand/or additionalstaffandlabour	Requestyoutopleaseconsidertheremovalofsub-clause (i)	No Change in Tender Conditions.

187	Vol2	59 of 66	GCC14.6	<p>Limitation of Liability          Except as provided otherwise in these Conditions, neither party shall be liable to the other party for loss of .....not exceed the Contract Price.          Except that this Sub-Clauses shall not limit the liability of the Contractor:          (a) under Sub-Clauses 4.18, 4.19 and 14.1          (b) under any other provisions of the Contract which expressly impose a greater liability,</p>	<p>Werequest that the clause be amended as follows:          “...Except that this Sub-Clauses shall not limit the liability of The Contractor:          (a) under Sub-Clauses 4.18 and 4.19 and 14.1          (b) <del>under any other provisions of the Contract which expressly impose a greater liability,</del>          (c) in cases of fraud, wilful misconduct or illegal or unlawful acts, or          (d) in cases of facts or omissions of the Contractor that <u>Amount to gross negligence.</u> Which are contrary to the most elementary rules of diligence which a conscientious Contractor would have followed in similar circumstances          “</p>	<p>No Change in Tender Conditions.</p>
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(c) in cases of fraud, wilful misconduct or illegal or unlawful acts, or  
(d) in cases of acts or omissions of the Contractor which are contrary to the most elementary rules of diligence which a conscientious Contractor would have followed in similar circumstances

**Point(a)**  
Clause 14.1 excludes indemnity from the purview of 100% cap on total liability. Since indemnity is not capped and includes death, injury and damage to any property and person, it dilutes the 100% limitation on liability. In other words, whatever the customer cannot extract under Limitation of Liability clause can claim under the indemnity clause. Similarly,  
**Point(b)**  
Is very open ended and defeats the very purpose of having 100% cap on the total liability.  
**Point(d)**  
Usage of the term “gross negligence” solidifies the ground for which Contractor will nevertheless bear total uncapped liability

No Change in Tender Conditions.

188	Vol 2	5of 29	SCC, Cl 7, Sub- Clause 4.2.4	<p>The forms of Performance Guarantee, Parent Company Undertaking, Parent Company Guarantee, Contractor's Warranty, Sub-Contractor's Warranty, Advance Payment Guarantee, Indemnity Bond and Safe Custody Guarantee shall be ..... Even if not described or stated in the Employer's Requirements and the Contractor's Technical Proposals, the Contractor shall carry out and complete the design of the Works, including the selection of specifications for the kind and standard of Plant, Materials and workmanship to be used therein.</p>	<p>We would request the last line of Para 1 of the clause to be deleted as it is just and reasonable that Contractor's performance shall be strictly restricted to the contract and any additional scope shall be by way of a Variation Order.</p>	<p>No Change in Tender Conditions.</p>
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189	Vol2	19 Of 29	SCC, C114, Sub-Clause 4.27	The Contractor, after obtaining any necessary consent from any relevant authority, shall submit to the Engineer proposals showing the layout of pedestrian routes, lighting, signs, and guarding any road opening or traffic diversion which may be required in connection with the execution of the Works and which the Contractor intends to construct.	We request DMRC to issue one necessary Road Permit for transporting the project related material/equipments.	No Change in Tender Conditions.
190	Vol 2	15 of 29	SCC, Cl 23, Sub- Clause 10.0	Defect Liability period A penalty of Rs.10000/- per day in DLP period will be imposed if major equipment (as defined in the contract documents) or any complete system is not working for more than 24 Hrs.	We request that this clause be amended to include that the penalty of Rs.10000/- per day in DLP period shall not apply in case if the default or failure is not attributable to the contractor	No Change in Tender Conditions.  It is further clarified that any failure of an equipment which leads to disruption of 25kv/33kv supply would be treated as a major equipment.

191	Vol2	17 of 29	SCC, Cl24, Sub-Clause 11.1.1,2.C)	<p>Change in Taxes / Duty: The contract prices shall not be adjusted to take into account any change in taxes, duties, levies or introduction of any new tax, duty or levy till the completion date including the date of extended period of contract.</p>	<p>Since Prices quoted will be considering the Taxes as prevalent at the time of Bidding so any statutory variation on supplies &amp; services likely to impact our prices at the time of execution.</p> <p>We understand that after introduction of GST, the existing laws on excise, VAT, Service tax etc will be abolished so all the goods &amp; Services to be sold by Bidder to Purchaser will be "Direct Transactions" only.</p> <p>Hence we request you to consider to rephrase this clause as following:-</p> <p>Adjustments for Changes in Legislation- The Contract Prices shall be adjusted to also take into account any new taxes or any statutory variation that may come into force during the contractual completion period which shall be to the Employer's account for which the Contractor shall furnish documentary evidence in support of their claims.</p> <p>We request you to kindly confirm the acceptance of statutory variation on account of any rates of Taxes are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs during the course of the performance of the Contract, including the extended period of the contract, which was or will be assessed on the Contractor in connection with performance of the Contract, the additional tax impact thereof on supplies (Own &amp; Bought out Items) &amp; services to be added in the contract price and to be paid to the Contractor by the Owner, extra actuals, against documentary evidence i.e. contractor's invoice.</p>	No Change in Tender Conditions.
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192	Vol2	17 of 29	SCC, Cl24, Sub-Clause 11.1.1,2.E)	NodocumentswithregardtoCust omandExciseduty willberequiredtobesubmitted.	Pleaseclarifywhether thisprojectfallsunderthepurview ofExcise"NotificationNo.6/2006-C.E,dated1-3-2006".	The bidder shall examine to make his own assessment in regards to benefit of central excise duty exemption under this notification and quote their offer accordingly.
193	Vol2	17 of 29	SCC, Cl25, Sub-Clause 11.1.3	Pricesquotedbythetenderersshallbe fixedthroughout the Tenderersperformanceofthe contract and not subjecttovariation ofanyaccount texceptwhere specificallymentionedinthecontrac tconditionsalong withtheprice variationsformulatobemadeapplic able.	Considering theVolatile MetalPriceandlargequantity requirement,vendorsarenotabletogiveFIRMpricefor major equipments,hencewerequestDMRCtoconsider pricevariationfor33kV Switchgear,33kV Cable, 25kV Cable,OHEconductorsandSteelstructures	No Change in Tender Conditions.
194	Vol2	21 of 29	SCC, Cl35, Sub-Clause 12.5	The variationscanbeimplementedany whereinthe networkofDMRC.	As statutorycharges,RoadPermit,transportationmay vary fromState to state, the 25% variation shall be limitedtowithinthisprojectlocations.	No Change in Tender Conditions.

195	Vol2	25 of 29	SCC, Cl46, Sub-Clause 12.5	Indemnity Bond	<p>We request that the following be added in the clause:</p> <p>“The Employer shall indemnify and hold harmless the Contractor, the Contractor's Personnel, and their respective agents, against and for all claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence, wilful act or breach of the Contract by the Employer, the Employer's Personnel, or any of their respective agents, and (2) the matters for which liability may be excluded from insurance cover.”</p>	No Change in Tender Conditions.
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196	Vol2	4 Of 5	SSC- Schedule4, Cl6	TheEmployershallbeentitledtoassignthebenefitof thisGuaranteeatanytimewithoutthe consentofthe Guarantororthe[Contractor][seeNote2]being required.	Itisfairandreasonabletoamendtheclause asfollows: “TheEmployershallbeentitledtoassignthebenefitof thisGuaranteeatanytimewithouttheconsentofthe GuarantorortheContractorbeing required.”	No Change in Tender Conditions.
197				Miscellaneous:SeparatePayment	We requestto have separate billingfor onshoreand offshoresupplyandservices.Paymenttoonshore supply and serviceshall be made to a localIndian account. PaymenttooffshoreSupplyandServiceshallbemadeto a foreignoffshoreaccountdirectly i.e.Consortium members are to submit their invoicesas per their respectiveScopeofWorkandgetthepaymentdirectlyin theirownaccountonly.Thisarrangementisasperother contractsformetrosinIndia.Pleaseconfirmacceptance	Accepted. However, the same has to be clarified in the MoU. Kindly refer clause A4.2 of ITT(Volume-1).
198				Miscellaneous	WecouldnotfindanyreferencetoFOB/HighSeaSales. Thefinishedoff-shoreproductsare requiredtobe delivereddirectlyinthedepotsiteshallbeconsidered onFreeonboardbasiswithsaletakingplace outsideIndiaasallowedforotherDMRCElectricalContra ctsand thereforewewouldrequesttoaddparagraph(v)as follows“Theimporteditemsrequiredtobedeliveredviz. PlantsandMachineries,equipment,spares,tools,jigs andfixturesetc.atDMRC’sdepot/sitesmaybeshipped in favour ofDMRCfreeon-board(FOB)basisorHigh SeasBasis”	No change in Tender Conditions.

S. No.	Tender Vol.	Pg. No.	Ref. Clause	Description as per issued Document	Bidder's Queries	DMRC Reply/Clarification
199	Vol4 Part 2	5	PS, Ch.1, CI 3.3	Verification of Design	Please confirm whether the tender specified ratings and quantities are minimum requirement or optimization of quantity and ratings can be done by the bidder based on pre tender simulation conducted by the bidder suggests so.	Please refer to Note on the cover page of each chapter of PS. It is written that these specifications are bare minimum specifications.
200	Vol4 Part 2	5	PS, Ch.1, CI 3.3	Verification of Design	We require to perform the Pre tender design for OHE by expats, so request to provide scaled Autocad.dwg of the track alignment drawing with pier chainages and spans and Depot drawings CSD and station cross section and Room details for ASS etc.,. Note this is a basic input requirement for Design Build Contracts.	Necessary details will be provided to successful bidder.
201	Vol4 Part 2	5	PS, Ch.1, CI 3.3	Verification of Design	We feel the ratings given will be the outcome of simulation conducted by DMRC for the project. To verify the capacity and rating please provide the following also 1. Rolling stock Characteristics Inputs for Simulation. 2. Signalling inputs	Necessary details will be provided to successful bidder.



					<p>3. Power Simulation of Traction Loads</p> <p>4. LT side Load determining the Aux Trafo rating and cable sizing etc.,</p> <p>5. Copy of Simulation done by DMRC. In the event of absence of Simulation S. No 5, Bidder shall have the liberty to change the rating &amp; Quantity.</p>	
202	Vol4 Part 2	11	PS Ch. 2 CI 4.0	Supply and installation of a duplicate 25kV feeder from TSS to Feed FP's in elevated sections	Please provide the 25kV Duplicate feeder running distance, route and details to determine the utility services along the route. Need a joint Site Survey without fail to ascertain the RSS location and alignment distance and probable route.	As intimated during Pre Bid, the same has been arranged on 12.06.2015. Reporting time is 1000 hrs at Metro Bhawan. Bidders to take note of clause B2.3 of ITT (Volume-1).
203	Vol4 Part 2	9	PS, Ch. 3 Table 3.3	Depot Anchoring	Depot Workshop & Inspection Bay Beam Anchors shall be provided respective Depot contractor.	Depot Anchor at beam will be provided by civil but Electrical Contractor has to interface with civil contractor right at the design stage.
204	Vol4 Part 2	11	PS, Ch. 3 Table 4.2 Item 2	<p>Remarks:</p> <p>A list of segments on which OHE masts /anchors are required to be placed, in accordance with the layout plan, will be issued to the successful bidder, along with the layout plans. The contractor shall there upon interface with the viaduct contractor to assess the status of casting/erection of segments and take appropriate action to ensure compatibility.</p>	Being a Design and build contract, the preparation of preliminary layout plans and fixing the mast/anchor location lies with the NE01 contractor and the list of segments on which OHE masts/anchors will be decided shall be provided by NE01 Contractor. So Alignment drawing with Pier and span & segment strengthened proposed be issued to bidder. Please confirm.	Necessary details will be provided to successful bidder.
205	Vol4 Part 2	17	PS, Ch. 3 Table 5.3	Providing OHE masts/anchors on external parapets at stations.	Nuts and bolts supply for Viaduct structures by Viaduct agency and confirm threads of holding down bolts provided must meet IS and RDSO	It will be the duty of traction contractor to interface with viaduct contractor during construction stage. A joint sample may be sent to lab to ascertain the standards as per required.

					standards, else may lead to serious accidents.	
206	Vol4 Part 2	20	PS, Ch. 3 Table 6.3	LT Panel at ASS	Better to eliminate the CT, Control, CB supplies on 415V LT Panel side by NE-01 contractor since it creates lot of confusion during execution stage. If still not possible the E&M vendor shall collect from NE-01 Stores the materials required.	Kindly Refer Addendum No.-2.
207	Vol4 Part 2	31	PS, Ch. 3 Table 10.3	Interfacing Requirement with Signalling Contractor (SIG)	Please advise who is DD13B (T) in interface.	Kindly Refer Addendum No.-2.
208	Vol4 Part 2	37	PS, Ch. 3 Table 12.3	Interfacing with OHE, Power Supply and SCADA Contractors of Phase I & Phase II & Phase III(PSPH2) and Noida Sec 32-sec 62 Contractor 25kv OHE & 33kv feeder from Existing Line-3 & sec-32 to 62	As mentioned in the interface document, we need the details (from O&M) on Links and existing facilities available and works to be done by bidder. Please provide the same for cost estimation.	Necessary details will be provided to successful bidder.
209	Vol4 Part 2	39	PS, Ch. 3 Table 13.1 Item 3	NE01 traction contractor will supply and install the 25kV Cables and terminations & return current cables between the outgoing 25kV Switchgear at the TSS and the Feeding Gantry at the depot.	Please confirm the following regarding 25kV cables from TSS to Feeding Gantry a) Route Length from RSS to Viaduct Cutout Location or site survey required. b) 3.3 kV cable runs per track shall be confirmed. c) Runs for Link of 25kV & 3.3kV Feed from Existing be specified. d) 3.3kv cable shall be terminated to an MK inside RSS provided by RSS contractor to ensure continuity on buried portion. 3.3kv cable from MK to buried rail inside RSS shall be in RSS contractor scope.	a) Please refer milestones B 1-5, C 1- 5 & B 2-6, C2-6 of vol. 7. b) Please refer para 5.8.2 of Ch-9B. It is same length. c) Design is a part of contract while designing the standards to be followed. d) Terminal for connecting 3.3 kV cable at RSS will be provided by RSS contractor.
210	Vol4 Part 2	4	PS, Ch. 4 Cl 1.2	Testing condition: NOTE : For type tests, the contractor can provide test	Please confirm the type test conducted on similar equipment of higher capacity shall be acceptable.	Please adhere to tender conditions. Bottom note in para 1.2 may be seen which is quoted below: "For type tests, the contractor can provide test

				reports performed according to the corresponding IEC standard, on similar equipment of <b>same capacity</b> and design.	The valid type test report for test conducted in past 10 years shall also be acceptable by DMRC. This is as per earlier and prevailing standard practice.	reports performed according to the corresponding IEC standard, on similar equipment of same capacity and design.”
211	Vol4 Part 2	5	PS, Ch. 5 CI 1.6	An area of approx. 5000 sq.m. <b>each</b> will be given to the Contractor at a suitable <b>locations</b> for his office and godown. The locations of stabling base for Work train will be advised subsequently	Please confirm a) Seek, 2 locations of 5000Sq.m.be provided at free of cost to contractors, 1 at Depot & other at Mid / Dead end. b) Land provided shall be hindrance free, soil filled and compacted with clear access to approach roadfor use till completion of DLP, AMC, since Contractors office &godown will be housed in Depot land area allocated.	No Change in Tender Conditions.
212	Vol4 Part 2	20	PS, Ch. 6 CI 6.2	Mockup training material : Cut Section drawings / photographs of Gas Insulated Switchgear	Please confirm the voltage level of GIS mock-up is 33kv only.	No Change in Tender Conditions.
213	Vol4 Part 2	8	PS, Ch. 8 CI 5.1	Construction of necessary foundations or Anchor fasteners for Auxiliary transformer, Switchgear panel and other equipment.	Please elaborate the scope of NE-01 contractor in constructing the foundations as civil works are completely part of Station building contractor.  More over being ASS in concourse no Trafo foundation envisaged.	Normally cement concrete foundations will be provided by SBC subject to timely interface between traction with SBC at design stage.
214	Vol4 Part 2	16	PS, Ch. 9A I.General Requirements, CI 10.3	Ministry of Railway (RDSO) Approvals, as applicable	Confirm does RDSO/other approvals required for items as below 1. Spring ATD (DMRC used) 2. PTFE / Light weight SI (DMRC used) 3. ASNS (DMRC used) 4. Aluminium Cantilever (DMRC used) 5. Insulators of 1600 CD (DMRC used)	RDSO/Ministry of Railways would require details for all major equipments used in the corridor, specially those equipments which are new to DMRC in N-GN corridor. Contractor shall hence adhere to the tender conditions.

					<p>6. Earth quake, Thermal reader, Wind monitor etc.,</p> <p>7. 33/25kv Trafo (MMOPL used)</p> <p>8. CuAg Contact (DMRC used)</p> <p>9. Reduced RC (DMRC used)</p> <p>10. Tubular Pole.</p> <p>11. SNS</p> <p>12. JG 2202</p>	
215	Vol4 Part 2	8	PS, Ch. 9A II.Design Criteria, CI 2.1	<p>Overhead Equipment (OHE) ....Provision of sliding type rigid OHE may be explored for use in depot inspection lines to facilitate crane working for maintenance of air conditioners/roof equipment of the train sets.</p>	<p>Please confirm the sliding type rigid OHE referred by DMRC is retractable overhead catenary system.</p> <p>If it is Retractable, then the civil data is required to decide the height and length of Fixtures for Retractable OCS.</p> <p>The civil data is very much essential to cost estimate. Please provide.</p>	<p>There will be no retractable catenary in depot. Please refer Addendum No.-2..</p>
216	Vol4 Part 2	8	PS, Ch. 9A II. Design Criteria, CI 2.1.12.1	<p>Overhead Line Equipment Earthing System</p>	<p>With the introduction of EN 50122-1 and better Signalling Cables we can overcome the limits imposed by CCITT. If you impose such stringent requirement we will have to perform the EMC/EMI simulation to ensure the need of BTRC.</p> <p>In practice the signalling equipment should be able to withstand, voltages higher than 430 V, and for the purposes we suggest that voltages up to about 700 V can be tolerated without a significant increase in the risk to legacy equipment. Please advise.</p>	<p>No Change in Tender Conditions.</p>
217	Vol4 Part 2	8	PS, Ch. 9A II.Design Criteria, CI 2.2.1	<p>Spans and staggers shall be carefully arranged to ensure that the contact wire will never be displaced by more than 200mm on straight track and 300mm on curve track from the center-line of the</p>	<p>Please clarify.</p> <ul style="list-style-type: none"> <li>• Confirm the wire displacement meant is for static only, as per bullet points given in the same clause.</li> </ul>	<p>It is both static &amp; dynamic as per tender conditions.</p>

				pantograph at any point in span, under the worst operating conditions of the OHE system, the rolling stock and the pantograph.		
218	Vol4 Part 2	11	PS, Ch. 9A II.Design Criteria, CI 2.2.1	Similarly the auxiliary power requirement shall be calculated based on the station-wise loads of utilities, lights, fans, lifts and escalators & other essential loads and loads of depots-car sheds / workshops etc. Property Development loads shall also be taken into account. The permissible voltage drop / regulation at the farthest end, in this case, is to be considered taking into account the failure of one main auxiliary substations at a time.	<ol style="list-style-type: none"> <li>1. Please provide station-wise load envisaged to verify the ratings of auxiliary transformer &amp; associated MV cabling.</li> <li>2. Else confirm that rating tender given is final, having evaluated by DMRC already.</li> <li>3. Please elaborate the scope of NE-01 in property development loads and list of auxiliary substations having property development loads and which ring main circuit to be connected and the details of protection to be given.</li> <li>4. Also confirm whether Panels and Aux Trafo are to be provided by the bidder or only space in drawing to be given.</li> </ol>	<ol style="list-style-type: none"> <li>1. Please refer to table in chapter 9A, volume 4.</li> <li>2. The rating of the equipments shall be finalised by NE-01 contractor as per detailed design engineering without any financial implication. This would mean that DMRC will not pay anything extra. The rating mentioned in the specification is the bare minimum requirement.</li> <li>3. Please refer clause 1-2-1, clause 3.4.4 of chapter 11 A, volume-4.</li> </ol>
219	Vol4 Part 2	11	PS, Ch. 9A II.Design Criteria, CI 2.5	Train Operation Plan	<p>In order to validate the sizes of the various equipment and components we need the following</p> <p><b>Rolling Stock Data</b></p> <ol style="list-style-type: none"> <li>1. Length of each type of vehicle.</li> <li>2. Resistance to motion, expressed as : Effort (N) = a + bV + cV<sup>2</sup> a, b and c coefficients preferably with speed in km/h.</li> <li>3. Tractive effort as a function of speed</li> <li>4. Braking effort (total effort electrical+ mechanical), as a function of speed, OR service</li> </ol>	<p>Necessary details will be provided to successful bidder.</p> <p>Maximum speed shall be 100 kmph.</p>

				<p>braking rate, if it is constant over all the speed range.</p> <ol style="list-style-type: none"> <li>5. Service acceleration rate</li> <li>6. Payload of each type of vehicle</li> <li>7. Tractive current drawn at current collector, as a function of speed OR Global efficiency in traction mode (from collector to wheel) as a function of speed.</li> <li>8. Regenerated current returned to current collector, as a function of speed OR Global efficiency in braking mode (from collector to wheel) as a function of speed + electrical braking effort as a function of speed.</li> <li>9. Power factor in traction and electric braking if different.</li> <li>10. Line current limitation as a function of the line voltage.</li> </ol> <p><b>LINE DATA:</b></p> <ol style="list-style-type: none"> <li>1. Track vertical profile : gradients description (locations and values)</li> <li>2. Track horizontal profile: curves description (locations and radiuses). May be value of applied cant in the case speed restriction profile is to be calculated.</li> <li>3. Junctions locations in the case of a multi-line network</li> </ol> <p><b>OPERATION DATA</b></p> <ol style="list-style-type: none"> <li>1. Speed restrictions on the line: begin and end KP, and maximum speed value. Speed limitations should include restrictions related to curves radiuses as well as the ones related</li> </ol>	
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					<p>to line environment or insertion.</p> <ol style="list-style-type: none"> <li>2. Trains patterns (configuration, skip and stop stations)</li> <li>3. Dwelling times at each station</li> </ol> <p><b>Electric Data</b></p> <ol style="list-style-type: none"> <li>1. Short circuit power of HV upstream network, at coupling point of each substation OR short circuit power at HV source substation and impedance &amp; X/R ratio of the line between source substation and traction substation.</li> </ol>	
220	Vol4 Part 2	16	PS, Ch. 9A II.Design Criteria, CI 3	<p>Design of EarthQuake and Wind Speed Sensing and Warning System: The Designer shall provide the locations of installing the systems for proper monitoring of conditions of Earth Quake and Wind Speed for the entire line and Depot.</p>	<p>Please elaborate the requirement of Earthquake and wind speed monitoring system, quantity, location to be installed and how its controls cable path can reach the SCADA.</p> <p>Also confirm to be covered in which Payment schedule.</p>	<ol style="list-style-type: none"> <li>1. <b>Earth quake sensor</b>:-The requirement given in specification are generic in nature. The basic requirement is to detect even feeble earthquakes and generate a alarm in OCC. One node shall be provided at OCC accordingly. Specification given in Ch-14 Clause 2.1 is the bare minimum requirement.</li> <li>2. <b>Wind speed sensor</b>: - The requirement is to generate 2 alarm signals at OCC and 5 Nos.SCR room. Please refer addendum. The Payment is covered under Milestone B4-7, C4-7 and cost centre D4 of Statement C of Pricing Document(Volume-7)</li> </ol>
221	Vol4 Part 2	30	PS, Ch. 9B CI 4.10.1	<p>In normal condition, 25kV supply for depot is given by main line OHE via entry and exit lines. Typical arrangement of 25kV supply in depot will be as per drawing no. NE-01-T-TN-TYPI-1000-0. Normally supply of 25kV in depot will be connected with ASNS along with circuit</p>	<p>Please confirm the neutral section requirements</p> <ol style="list-style-type: none"> <li>1. Confirm Type SNS / ASNS / JG 2202 / 2 nos of JG 1759 at Depot entrance securing the signal location and shall be with CB controlled by nearby Mainline station for operation during Day hours</li> <li>2. Other 25kv source to Depot will be from 33kv (3 or 2 phase)/25kv with</li> </ol>	<ol style="list-style-type: none"> <li>1. Only SNS/ASNS shall be provided in depot which shall be bridged by 25kV CB as per requirement. Control for CB will be with OCC and BCC.</li> <li>2. 33kV supply will be tapped from nearby ASS.</li> <li>3. Please refer 4.10.2 of Ch-9B.</li> <li>4. Only SNS will be provided in main line.</li> </ol>

				<p>breaker shall be provided in both entry and exit lines. Circuit breakers will be normally in closed condition. The various proper boards should be provided by NE01 Contractor.</p>	<p>CB, in which 33kv tapped from nearby Depot ASS.</p> <p>3. Confirm no other 25kv Taps are required for Depot 25kv Feed other than S. No 1 &amp; 2 above.</p> <p>4. Confirm SP short neutral sections will be provided in Main Line will be Main line SI type &amp; not PTFE.</p>	
222	Vol4 Part 2	30	PS, Ch. 9B CI 7	<p>3.3 KV RETURN CABLE The 3.3 kV cable shall be 19/3.3 kV, grade single core, 240 sq mm standard copper conductor, XLPE insulated, copper wire screened, tape armouring.</p>	<p>We presume 19/3.3kV is a typographical error and it should be 1.9/3.3kV. Please confirm can the Traction return cable be of 1.1kv level instead of 3.3kv.</p>	<p>Please refer addendum no-02.</p> <p>No change in tender conditions. 33 kV feeder panel in existing Line-3 ASS shall be provided by DMRC.</p>



223	Vol4 Part 2	6	PS, Ch. 10 1.1.2	Interlinking of 25 kV Supply between Noida-Greater Noida Corridor and Line-3.	<p>Please confirm the following:</p> <ol style="list-style-type: none"> <li>1. Provision of outgoing 33kV feeder panel in existing line 3 ASS to tap 33kV Cable connection for auxiliary purpose.</li> <li>2. Provision of all equipments for 25kV Feeder circuit breaker in existing line 3 section to tap 25kV feed for traction purpose and the sketch showing the arrangements and existing tap points and feed points. Site survey requested.</li> <li>3. Please provide route length of 33kV cable and 25kV Cable from line 3 to sector 71.</li> <li>4. There is no Sec 71 FP shown in PS SWS qty.</li> <li>5. There is no Depot FP shown in PS SWS qty.</li> <li>6. Confirm the payment schedule for the above points.</li> </ol>	<ol style="list-style-type: none"> <li>1. 33 kV feeder panel in existing Line-3 shallnot be in the scope of NE-01 contractor.</li> <li>2. Modification of 25 kV OHE is in the scope of work in the NE-01 contract on both sides.</li> <li>3. Modification of 33 kV Auxiliary system at N-GN section would be NE-01 Contractor &amp; in L-3 (extn) only Breaker would be provided by L-3 (extn) contractor.</li> <li>4. Cabling/joint etc from one section to another section would be in the scope of NE-01 contractor.</li> <li>5. RTU for control of 25 kV/CB &amp; Isolator etc for feed extn would be in the scope of L-3 contractor. However all cabling etc would be done by NE-01 contractor.</li> <li>6. SCADA operations for feed extension for 25 kV would lie at OCC/DMRC. Integration of RTU with the CB shall be in the scope of NE-01 Contractor.</li> <li>7. Kindly refer to Milestones B1-6, C1-6, B1-10, C1-10 and Cost Centre D1 in Statement C of Pricing Document (Volume-7) for Route Length. The cost shall be quoted as per the various milestones provided in volume-7.</li> <li>8. Please refer addendum in table 3.3 in chapter 10, Volume-4.</li> <li>9. Please refer table in 3.3 in chapter 10, Volume 4.</li> </ol>
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224	Vol4 Part 2	6	PS, Ch. 10 1.2	Traction Overhead Equipment Supply, Installation, Testing and Commissioning of 25 kV AC flexible Overhead Equipment (OHE) and approx.100m ROCS System for Elevated Sections,	Please confirm: 1. Chainage location with a Plan & chainages where the ROCS of 100m is to be provided in the section. 2. Any alternative arrangement is also acceptable by DMRC. 3. Also confirm which Section and Cost centre the payment schedule covers this requirement.	<ol style="list-style-type: none"> <li>1. Alternative arrangement is also acceptable subject to the minimum height as per SOD.</li> <li>2. Tentative location for the 100 meter elevated ROCS is between sector 149 station &amp; Knowledge Park-II Station, where 400 kV transmission live is crossing the alignment.</li> <li>3. Kindly refer to Milestones B2-2, C2-2 and Cost Centre D2 in Statement C of Pricing Document (Volume-7).</li> </ol>
225	Vol4 Part 2	20	PS, Ch. 10 CI 2.5.1	Works for OHE connections to the existing facilities in therefore on such locations one more cantilever to be provided on the OHE masts and adjustment to be made for getting clearance of 200mm between in run and out of run wires. In addition, OPC and RC wires are to be extended by splicing and to be anchored on mast.	We are not clear where such works are envisaged. Please elaborate the requirements and Provisions to be made by the bidder in cost estimate.	Not applicable in the present case as there is no track linking. Only 25 kV, 33 kV supply interconnection has to be done at sector 71 between DMRC L-3 & N-GN corridor.
226	Vol4 Part 2	35	PS, Ch. 10 CI 5.4.4	Note: In Depot 5 pulley ATD should be used and in main line 5 pulley ATD and spring type ATD should be used as per requirement.	Clause 5.4.1 of this specification confirms on main lines i.e. on viaduct & Depot, 5 pulley ATDs are preferred. Spring type ATD shall be restricted to 5% of total usage, including use at Ramp.  Confirm the spring type ATD % usage is only 5%.	Kindly Refer Addendum No.-2.
227	Vol4 Part 2	43	PS, Ch. 10 CI 6	The general arrangement of Al cantilever on a normal mast (either conventional or tubular) is shown in drawing no. NE-01-T-OH-TYPI-1002-0 (sheet	Please confirm 1. The galvanized steel tube cantilevers with mix of RDSO and some International proven components and materials already in use in	<ol style="list-style-type: none"> <li>1. Al. cantilever will be used in the corridor. Please refer Para 6 of chapter 10, Volume 4 tender conditions.</li> <li>2. Please Follow Tender Conditions (Clause</li> </ol>

			<p>5/5). However any other suitable design other than what is specified above can also be considered, which shall be approved by DMRC. Preference would be given to the design already proven &amp; successfully used in earlier phase of DMRC.</p>	<p>earlier phases of DMRC are acceptable.</p> <ol style="list-style-type: none"> <li>2. Please confirm whether the Indian Railway RDSO type cantilevers also can be used with polymer cantilever insulators, if it meets Design requirements.</li> <li>3. Being a Design &amp; build contract bidder shall have the preference on the above as long as design conditions are met. However request clearly confirm the Mandatory items if any.</li> </ol>	<p>8.0, Chapter 10, Volume-4)</p>
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228	Vol4 Part 2	46	PS, Ch. 10 CI 7.1	The contact wire shall be 107 sqmm hard drawn grooved round copper conductor, diameter 13.8mm. The contact wire should be drawn out of continuous cast rods of minimum diameter of 21mm. Contact wire shall also conform to latest RDSO Specification ETI/OHE/76 (6/97)	The diameter of contact wire 13.8mm seems a typographical error. Please re-confirm the dia.	Kindly Refer Addendum No.-2.Please refer table -1 at ch-10 for correct & detail parameters.
229	Vol4 Part 2	57	PS, Ch. 10 CI 9.1.1	Rolled Steel Joist (RSJ), Broad Flange Beams (BFB) or Fabricated B Series Structures of IR Design are used as independent masts. RSJ, BFB and B Series Structures of Indian Origin shall conform to Bureau of Indian Standard Specifications IS: 2062, IS: 800 and IS 808 all latest versions.	<ol style="list-style-type: none"> <li>1. Please confirm Steel structures RSJ, BFB and B series masts are also preferred as they are already proven in DMRC and IR whereas steel tubular poles as mentioned in Chapter 9A, Clause 2.1.4 as preferred solution is still to be proven in Indian Railway applications. Contract suggests Tubular pole also, as adjustment price.</li> <li>2. Confirm by when the decision will be taken as import items are long lead supplies.</li> <li>3. Is there any specific % usage or all structures will be tubular poles in Main line.</li> <li>4. Confirm Depot structures preference also.</li> </ol>	Tubular poles are proposed to be used on main line depending upon the cost quoted by the successful bidder and therefore tubular poles have been taken as a adjustable price item& In depot IR design of mast will be used.
230	Vol4 Part 2	10	PS, Ch. 11A CI 1.4.3	Traction Power Supply arrangement in Greater Noida Rolling Stock Depot  33 /25 kV, single phase, 2	Please provide complete technical specification / data sheet of 33/25kV 2 MVA transformer to be provided in Rolling stock depot.	Requirement given in Ch-9B clause-5.10.2 (ii) have to be met with and specifications may be designed accordingly by successful bidder. Type test would have to be done Kindly Refer Addendum No.-2.

				MVA transformer will be installed in Rolling stock depot for 25 kV traction power supply inside Depot.		
231	Vol4 Part 2	10	PS, Ch. 11A CI 1.4.3	Traction Power Supply arrangement in Greater Noida Rolling Stock Depot  33 /25 kV, single phase, 2 MVA transformer will be installed in Rolling stock depot for 25 kV traction power supply inside Depot.	Please provide the Scheme of 25kv Feed from 33kv circuit for Depot Night time feed	Normally 25 kV feed in the depot shall be available from the main line (viaduct). However during night time when OHE block on main line is taken, 25 kV OHE feed in the depot shall be through 33/25 kV transformer. Detailed designing to be done by successful bidder.
232	Vol4 Part 2	29	PS, Ch. 11A CI 3.4.2.j.3 K	Cable entry Cable connection shall be bottom/top entry as per the locations of the ASS.	Please confirm 33kV GIS switchgear with bottom cable entry is feasible to install in concourse level of ASS.  Confirmation on this required since any constraints on bottom will have impact on Cost very badly.	No change in Tender Conditions
233	Vol4 Part 2	68	PS, Ch. 11A CI 5.7.2.2	Cables shall be laid in cable brackets/trenches along the walkway. The brackets / trenches in viaducts are in the scope of viaduct contractor in elevated/at grade sections and in the underground section it is the scope of E & M Contractor.	Please confirm the following: 1. Cable path inside Depot including Track crossing and Com cable to TER/DCC will be Depot scope. 2. Cable path on ground to Pier along the pier is Viaduct contractor scope. 3. Cable path all along the viaduct for 25kv, 33kv, LT& control cables, Viaduct Lighting, socket on Viaduct, cable bracket on Cross overs are in viaduct contractor scope 4. MV, LT cables, canopy earthing path to track, station cutouts, PF to ASS room in station area are in SBC scope.	1. Please refer item no-02 table 7.3, Volume -4 of interface documents of Ch-3. 2. It is in NE-01 contractor scope of work. 3. Cable brackets on the viaduct will be only provided by the viaduct contractor. 4. Please refer to interface document of Ch-3, Volume-4.
234	Vol4 Part 2	86	PS, Ch. 11A CI 8.1	The 33kV switchgear panels, Transformers, ACDB &DCDB, battery charger etc in	Please re-confirm, firetrace type Automatic fire detector and extinguisher system are not possible to provide in	Firetrace type Automatic fire detector system will not be provided in 33 kV GIS switchgear.

			the ASS shall be protected against fire by means of an 'automatic fire detector and extinguisher system', 'Firetrace' type or equivalent.	GIS type 33kV Switchgear.	
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235				General	Confirm Number of ASS in Depot and Capacity of Transformers and No of Transformers per Depot ASS	Kindly refer addendum No.-2.
236	Vol4 Part 2		PS, Ch. 13 Cl	DLP/AMC of OHE,PSI and SCADA	Will all required office provision, catenary maintenance vehicle, Material and Staff Transport vehicles will be provided to contractor free of cost during AMC of 3 years and 5 years.	No change in tender conditions.  Only Catenary Maintenance Vehicle shall be provided and maintained by other contractor. However, the NE-01 contractor shall ensure that the CMV is properly maintained and keep proper records for the same.
237	Vol4 Part 2			General SCADA	Com shall provide redundant cables of same bandwidth configuration for OCC & BCC. Can RTU for Switching station with Battery and charger be at Viaduct Parapet. Please confirm	Telecom will provide redundant cables for same bandwidth configuration for OCC & BCC.  Battery and Battery Charger for switching station shall be provided at nearest ASS and for RTU at switching station please adhere to tender conditions.
238	Chapter 3	35 of 42		OCC furniture	Confirm furniture for OCC will be only to the portion of TPC controls	TPC control and SCADA room furniture shall be in the scope of NE-01 Contractor.
239	Chapter 3	34 of 42	Table 11.2 of Interface	Control & Monitoring data exchange	Confirm the distance between ASS Room RTU to TER of station Confirm the distance between Depot ASS Room RTU to TER of Depot where communication cable is terminated.	Successful bidder will need to interface with civil contractor at design stage.
240	Chapter 3	34 of 42	Table 11.2 of Interface	Control & Monitoring data exchange	Confirm interface terminal of Communication cable to TER equipment panel will be in COM agency scope.	Confirmed.
241	Chapter 5	5 of 8	1.6	Works train	Requirement of work trains shall be dependent of Access and augmentation required shall be done by the bidder. So Minimum 3 work trains shall be removed.	No Change in Tender Conditions.

242	Chapter 5	8 of 8	2.1	Program requirement	Since Access dates are not given, bidder will propose the access dates to meet the Key dates, which shall form the basis, else there cannot be any relation between Access and Key dates. Else define access dates for relevant key dates.	No change in tender conditions. Contractors to coordinate for the access dates with other contractors and employer will facilitate the same.
243	Chapter 9A	8 of 40	2.1.3	Span length	Confirm Wind speed 47m/sec and Wind pressure of 150 kg/m <sup>2</sup> of RDSO are one and the same.	Please refer the RDSO letter TI/OHE/GA/2013 dated 25.04.13. Latest wind zone of the region & RDSO guideline need to be referred to at the actual design stage. However, at present for bidding purpose only, wind speed may be taken as 47m/sec, designed wind pressure as 155kg/m <sup>2</sup> & maximum permissible span as 54m, in term of RDSO letter no. TI/OHE/GA/2013 dated 25.04.13. This is the maximum span & will vary depending upon the curves.
244	Chapter 9A	19 of 40	2	Qualification of the Firm to be engaged for Validation of the works	Confirm Designer can be INHOUSE and Validator has to be an independent qualified agency / person. Confirm whom the Design Validator has to report to. Confirm the period of requirement of Validator. Confirm the period of PM expat requirement, if any.	1. No change in tender conditions. 2. The Auditor shall be required till the submission of report and presentation of the validation of design and installations and shall be under the administrative control of the contractor.
245	Chapter 9A	8 of 40	2.1.3	Span length	Confirm that the structure can be placed in any segment in a span and there is no restriction on the same. Confirm the maximum & Minimum span between Peir to Pier	In this section no box girder are there & U-girders of 27m span are normally being provided. On non-standard spans, I-girders are also being provided on a limited scale. OHE design shall have to be done accordingly. Other finer details shall have to be worked out by successful bidder of NE-01 after interface with the Civil contractor. Minimum span will be as



						per past practices adopted in DMRC.
246	Chapter 9B	9 of 37	3.4.7	25 kV Lighting Arrestor	Confirm the need of LA in every 25kv Switching equipment mounted on the viaduct.	It is not required at every 25 kV switching equipment mounted on the viaduct. However, it may be required below 400 kV Transmission line, depending upon the design finalised.
247	Chapter 10	44 of 76	6.2	Return Conductor Supports	Confirm any Mandatory requirement of use of Booster Transformer and RC made mandatory.	kindly refer addendum No-02
248	Chapter 10	57 of 76	9	OHE support	Please provide the Properties of structure of BFB 51 kg/m mast, as it is not RDSO item, being already adopted by DMRC in Phase -1,2.	Please refer para 9 of Ch-10, vol. 4 for the specifications of structures.
249	Chapter 10	60 of 76	10	OHE foundation	Provide us the details of SBC and soil filling type of various levels in Depot to determine the foundations	Soil bearing capacity has to be ascertained by the successful bidder. In case bidders feel they needdata for bidding, they can get the test done at their own level and cost.
250	Chapter 10	60 of 76	10	OHE foundation	Confirm can we go for augured foundations with bolts embedded in concrete and base plated structure and for anchors also in Depot area. Please confirm, since lot of damages to structures and anchor loops happen in depot area.	No Change in Tender Conditions.
251	Chapter 10	60 of 76	10	OHE foundation	Confirm pre-cast foundations in Depot are acceptable.	No Change in Tender Conditions.
252	Chapter 11A	23 of 91	3.4.2.3.1	Circuit breakers	Confirm the automatic opening of 25kv Paralleling Interruptors in case of fault segregation can be formulated from OCC instead of Local ASS RTU.	Automatic opening of 25 kV paralleling interruptors in case of fault segregation shall be formulated from Local ASS RTU.
253	Chapter 11A	62 of 91	5.1.4	Trofoil clamps for 33KV Cables	Confirm spacing between Trifoil clamps for 33kv cable laying.	For every 1 meter the trefoil clamp will be provided.

254	Chapter 11A	55 of 91	5.1	33kV Cable requirement	Considering the UV effect, it is recommended to use black sheath cable only with some indications on R Y B. PI confirm.	Confirmed
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S.No	Volume	Section	Page No.	Clause	Item	Relevant Abstract from Tender	Query	DMRC Reply
<b>A</b>	<b>COMMERCIAL</b>							
255	Volume 1	NIT	Page 2	Clause No. 1.1.3	Source of Funds	This is a NON-JICA funded Contract and project shall be financed accordingly	We understand that Funding for this project is already secured. Kindly confirm the Source of funds.	On behalf of NMRC, DMRC shall be handling the contract and shall be releasing the payment as per contract.
256	Volume 1	ITT	Page 17	Clause No. C 2.2- (C)	-	Any discrepancy between hard copy & soft copy, hard copy will prevail.	As this is an E-Tender Hard copy submission is not required. Kindly confirm that whether we have to submit our offer in hard copy also.	Kindly refer addendum No.-02
257	Volume 1	ITT	Page 20	Clause No. C2.7	-	Unless stated otherwise in the tender documents, the contract shall be for the whole of the Works as described in the tender documents, based on the unit rates and prices in the Bill of Quantities submitted by the Tenderer.	As the Contract is a fixed Lump Sum Price Contract, this clause shall not be applicable. Hence kindly delete this clause.	Kindly refer addendum no-02
258	Volume 1	ITT	Page 20	Clause No. C 2.11	-	If the employer so decides, he may supply some items of BOQ to the contractor as “Employer supply items” and in such an event the Contractor shall not be allowed to claim payment for such items. The Employer shall notify a list of such items within three months of the placement of the Contract.	As the Contract is a fixed Lump Sum Price Contract, this clause shall not be applicable. Hence kindly delete this clause.	No Change in Tender Conditions.

259	Volume 1	ITT	Page 24	Clause No. C16.1	Currencies of Tender and Payment	The Tenderer may give his priced offer in Indian Rupees, and/or in Japanese Yen/ US Dollar / Euro or any combination of these currencies.	Request you to kindly confirm if there is any limit to number of internationally convertible currencies allowed. Also kindly confirm that the prices quoted in foreign currencies by the bidder shall be paid to them in the respective currency in which they have quoted.	Kindly refer to Clause C16 of ITT(Volume-1).  Kindly refer to GCC Clause 11.12 (Volume-2).
260	Volume 1	ITT	23	C15.3	Liquidated Damages	The Tenderer is to note the Key Dates as given in Appendix 1A of FOT of Employer's Requirement. These are to be adhered to strictly failing which Liquidated Damages as mentioned against each key date.	Only Key dates are available in the Appendix 1A of FOT, applicable Liquidated Damages against each Key date is not mentioned. Kindly confirm the applicability of LD on individual Key dates and Offset procedure in cases the subsequent Key dates are achieved.	No Change in Tender Condition
261	Vol-1 / Vol-2	FOT / GCC	73 / Page 39 of 66	Appendix-1 / 8.5	Liquidated Damages	<b>0.5% of the contract value</b> per week of delay. The total amount of liquidated damages in respect of the Works in all stages shall, however, not exceed the limit of liquidated damages stated in the Appendix to the Form of Tender	The specified LD rates of 0.5% of the contract value per week with total ceiling of 15% of CV is very high and not as per industry practice.  Request you to kindly modify the same as below LD rate - 0.1% of the CV per week Maximum Cap - 5% of the CV	No Change in Tender Conditions.
262	Vol-2	GCC	Page 40 of 66	Cl. 8.5	Liquidated Damages for Delay	The total ceiling limit of which is <b>15% of the contract value</b> including liquidated damages levied under the provision of Appendix 1 to the Form of Tender.		

263	Vol-2	SCC	Page 17 of 29	Cl.24 ( C )	Change in Taxes / Duty	The contract price <b>shall not be adjusted</b> to take into account any change in taxes, duties, levies or introduction of any new tax, duty or levy till the completion date including the date of extended period of contract.	We request you to amend the clause as "The contract price <b>shall be adjusted</b> to take into account any change in taxes, duties, levies or introduction of any new tax, duty or levy till the completion date including the date of extended period of contract" as there are changes expected in the taxation system with the introduction of GST.	No Change in Tender Conditions.
264	Vol-2	GCC	Page 21 of 66	Cl. 4.13	Delay on account of Right of Way	The Employer will acquire and provide land for Permanent Works and right of way (within DMRC's land) for access thereto over routes established by the Contractor. The Contractor shall bear all cost and charges for special or temporary rights of way which he may require including those for access to the Site. The Contractor shall also obtain, at his risk and cost, any additional facility outside the Site which he may require for the purpose of the Works	Delay on account of obtaining ROW approval (not attributable to Contractor) shall not be liable for levy of Liquidated Damages on Contractor, Please confirm.	No Change in Tender Conditions.
265	Vol-2	SCC	Page 16 of 29	Cl. 24	Contract Price	In view of above, the tenderers are advised to quote the price inclusive of all central/state/local taxes, duties, levies, cess and all other incidental charges required to full fill the tender conditions....	Please clarify whether DMRC shall issue 'C' form for obtaining Concessional Sales Tax for inter-state transaction on sale in transit basis.	DMRC does not issue Form 'C'.

266	Volume -1	ITT	Page 28	Clause no. E1.3	Tender Opening	The Prequalification Package & Technical Packages of all the tenderers shall be opened in the presence of tenderers or their representatives who choose to attend on date & time as mentioned in tender document in the office of the Executive Director/Contracts	As this is an E-Tender, kindly confirm the procedure for opening of the tender.	Tender conditions are self explanatory. No change in tender conditions..
267	Volume -1	ITT	Page 55	APPENDI X- H to ITT	Construction Machinery	5. Concrete mixing Plant 6. Cube Testing Machine	We do not envisage the usage of such equipment for the project. Please remove them from the list of Construction Machinery.	No Change in Tender Conditions.
268	Volume 2	SCC	Page 15 of 29	Clause 23	Defect liability period	<p><b>Maintenance during Defects Liability Period</b></p> <p>Contractor shall establish an office for the purpose with communication facility so as to facilitate communication for reporting failures and liaison with maintenance staff manning the stations round the clock. The supervisor in-charge should be provided with mobile communication facility to ensure his presence at the site immediately after reporting. Contractor shall ensure restoration /rectification/replacement, within reasonable time, to the satisfaction of Engineer. The Engineer in case of the delay as deems fit shall be empowered to carry out the maintenance at the risk and cost of the Contractor.</p>	<p>Kindly confirm that during Defect Liability Period our scope is limited to attending any Defect for the items which is in our scope of work only. Our scope doesn't cover any O&amp;M works during Defect Liability Period.</p> <p>Kindly also confirm that the DLP period shall start from the date of issue of Taking-Over Certificate for the particular section / part of the Works.</p>	Tender conditions are self explanatory .No Change in Tender Conditions.

269	Volume 1	FOT	Page 75	-	-	Schedule of Key Dates	Kindly furnish the Schedule of Access Dates for each section or confirm when the access for each section shall be given to Contractor.	NE-01 Contractor to coordinate for the access dates with other contactors and employer will facilitate the same.
270	Volume 2	GCC	Page 13	Clause No. 2.3	Permits, Licenses or Approvals	It shall be Contractor's exclusive responsibility to get approvals, permits or license required for the Contract. However, the Employer shall (where he is in a position to do so) provide reasonable assistance to Contractor at the request and cost of the Contractor in getting Permits, License or Approvals required during the Contract.	We presume that our scope is limited to getting approval from CMRS/CRS only.  Kindly confirm.	Tender conditions are self explanatory. No Change in Tender Conditions.
271	Volume 2	GCC	Page 18	Clause No. 4.4 c	Facilities for and coordination with Others.	The Contractor shall provide within the Site, staging, storage and unloading areas for the use of Designated Contractors, if any, who are undertaking trackwork, fare collection system, supply, testing and commissioning of Rolling Stock, escalators, lifts, signalling and telecommunications and traction power installation works, etc.	We feel this clause is applicable only to civil contractors. We shall be provided adequate space for staging, storage and unloading within the site. Kindly confirm.	No Change in Tender Conditions.

272	Volume 2	GCC	Page 42	Clause No. 9.2 (a)	Taking over of Parts of the Works	<p>The Engineer may, at the sole discretion of the Employer issue a Taking Over Certificate for any part of the Permanent Works by following the procedure stipulated in Clause 9.1 above if:</p> <p>(a) the Employer uses that part of the Works for revenue service before the Taking Over Certificate is issued for the entire work.</p> <p>(b) the balance part is not completed not due to the fault of the contractor and contractual date of completion for the completed part is over.</p>	<p>Kindly confirm that the issue of a Taking Over Certificate for the part of the Works shall not be withheld if the Employer is not in a position to use that part of the Works for revenue service due to the reason which are not attributable to the Contractor</p>	<p>No Change in Tender Conditions.</p>
273	Volume 2	GCC	Page 44	Clause No. 11.1.2	Maintaining Records and Availing Exemptions	<p>i) Alternatively, the Employer may direct the Contractor to get the reimbursements based on exemption certificates / government's order and it shall be obligatory on part of the Contractor to get the reimbursements from the statutory authorities and pass on the benefit to DMRC.</p> <p>ii) In case of Contractor's failure in availing the exemptions as stipulated above, the recovery of equivalent amount will be made from Contractor's dues.</p>	<p>In case the Statutory Authorities refuses to refund the Taxes &amp; Duties paid, the same should not be recovered from Contractor. Kindly confirm.</p> <p>Also kindly delete the Clause No. 11.1.2 (ii).</p>	<p>No Change in Tender Conditions.</p>



274	Volume 2	GCC	Page 48	Clause No. 11.6.1 & 11.14	Payment	<p>11.6.1 - Payments of local currency shall be made into bank account, nominated by the Contractor. Payments of foreign currencies shall be made through Letter of Credit route.</p> <p>11.14 - All payments to the Contractor will be made by cheque or "E-Payment" as desired by the Employer.</p>	<p>As per Clause no.11.6.1, payments of local currency shall be made into Bank account, as nominated by Contractor and payments for Foreign Currencies shall be made through 'Letter of Credit' route, whereas as per Clause no. 11.14, it states that all the payments to the Contractor will be made by 'Cheque' or 'E-payment' as desired by Employer.</p> <p>Please confirm that Foreign currency payment will be made through Irrevocable Letter of Credit only. The same is applicable for Indian Bidders also. Also, kindly clarify who will bear the Bank Charges for Letter of Credit.</p>	Contract conditions are self explanatory. No change in Tender Conditions.
275	Volume 2	GCC	Page 49	Clause No. 11.15	Tax Deduction at Source	Tax deductions will be made at source as per statutory requirement from every payment made to the Contractor at rates notified from time to time.	Please confirm that DMRC will provide necessary certificates for the Tax deducted at source (WCT / Income Tax) to the Consortium members separately .	DMRC shall follow relevant Tax Provisions
276	Volume 2	SCC	Page 19	Clause No. 33.0 (GCC Sub Clause 12.3)	Quantity Variation	<p>The quantities of items shown in the Bill of Quantities are approximate, and liable to vary during the actual execution of the work. The Contractor shall be bound to carry out and complete the stipulated work irrespective of variation in individual items, at the same rate as specified in the Bill of Quantities subject to variation in the value of the Contract being limited to 25% of the total original/enhanced value of the contract</p>	<p>Bidder is being asked to provide unit prices for additional quantities. Please confirm that in case of variation the rates quoted in STATEMENT – F will be used till the total contract value variation remains within 25% of the original CV.</p> <p>Also, a new rate should be mutually agreed if variation in quantity of any item exceeds 25% of the tender quantity.</p> <p>Kindly confirm.</p>	Tender conditions are self explanatory. No Change in Tender Conditions.

277	Volume 2	SCC	Page 18	Clause No. 25 (GCC Sub Clause 11.1.3)	Price Variation	<p>The Contract Price quoted by the tenderer shall be fixed throughout Tenderers performance of the contract and not subject to variation of any account except where specifically mentioned in the contract conditions along with the price variations formula to be made.</p>	<p>In view of volatility in raw material prices and the long project duration of 24 months, we request you to kindly consider Price Variation clause for the following major equipment with the base date as on one month prior to date of bid submission.</p> <ul style="list-style-type: none"> <li>(i) Copper Conductor (Based on LME)</li> <li>(ii) Conductors to be used as OPC, TEW &amp; RC</li> <li>(iii) Aluminium Conductor Rail</li> <li>(iv) 25 kV Switchgear</li> <li>(v) Steel Structures</li> <li>(vi) 25 kV Cable</li> <li>(vii) 33kV Cable</li> <li>(viii) LV Power &amp; Control Cables</li> <li>(ix) 33kV Switchgear</li> </ul> <p>Kindly accept and confirm.</p>	No Change in Tender Conditions.
278	Volume 2	SCC	Page 24	Clause No. 44	Spares	<p>The Contractor shall submit a schedule of spare parts duly indicating, for each item of spares, its description, part number, drawing number, lead time, shelf life and number of units required for the system during the first ten years, principal as well as secondary sources of supply, and also the unit price with escalation/de-escalation clause.</p>	<p>We understand that the successful bidder after award of contract, has to submit the schedule of spare parts required for the system during the first ten years and the unit price with escalation.</p> <p>Kindly confirm.</p>	Kindly Refer Addendum No.-2.

279	Volume 3	GS	Page GS, 6 of 8	Clause No. 13.5.4	Defects Liability Spares	The Contractor shall not be entitled to use any of the Contract Spares to replace any item in the Permanent Works during the Defects Liability Periods.	Request you to kindly allow the Contractor to use the Contract Spares to replace any item in the Permanent Works during the Defects Liability Periods, which is found to be defective. This can be done after taking prior approval from Employer and submission of undertaking by Contractor that the Contracts Spares obtained from Employer shall be replaced with the new one.	Kindly refer Addendum NO-02
280	Volume 4	GS	Page Appx 9-1 of 2	Clause No. 9.1	Works Area	The Contractor will be given temporary work sites as stipulated in this Specification. The Contractor shall comply with the requirements specified in Volume 3 General Specifications in relation to the use of works sites allocated to the Contractor.	Kindly confirm the period by when the Work Site shall be provided by Employer to Contractor, from the date of issue of LOA.	Contractors to coordinate for the same with other contractors and employer will facilitate the same.
281	Volume 7	Pricing Document		Statement - E	Adjustment prices for additional items	Adjustment Price for using Tubular poles instead of normal Masts.	Kindly confirm whether the same will be used for evaluation the prices.	Confirmed.
282	General	-	-	-	-	Transformer Losses	Please indicate the maximum permitted Iron & Cu losses for each transformers.	No change in Tender Conditions
<b>B.</b>	<b>TECHNICAL</b>							

283	Volume-4	Chapter-11A, Specification, auxiliary network	8 of 91	1.2.2	33kV Switch board & cables	Additional 33kV circuit breaker at sector 71 & 33kV cable from sector 71 station ASS to interconnecting station ASS at line-3 shall be in the scope of NE-01 contractor	Kindly provide 1) The make & model, space available for placing our 33kV GIS circuit breaker vertical in line-3 ASS. 2) Distance between the Line-3 to sector 71 ASS	1. 33 kV Switchgear at Line-03 shall be provided by DMRC. 2. For distance kindly refer Cl. B1-10 of Vol 7
284	Volume-4	Chapter-11A, Specification, auxiliary network  dwg no: NE-01-T-AX-S 71-1000-0	12 of 91	2.1	Sector 71 AMS	The auxiliary Main substation are located in the premises of Receiving Substations(RSS) at sector-83 & sector-153.	In addition to the incomer feeders from AMS of sector-83 & 153, we presume that we have to provide incomer feeder from AMS of sector-71 to ASS in sector-71 as per dwg no. NE-01-T-AX-S 71-1000-0. Kindly confirm. If yes, kindly provide the make & model of the switchgear.	Kindly refer Addendum No.-2.
285	Volume-4	Chapter-11A, Specification, auxiliary network	12 of 91	2.1	33kV cable length	NE-01 contractor will required to supply and install the 33kV cables from the outgoing 33kV switchgear at the AMS, upto designated ASS.	Kindly furnish the distance between RSS at sector-83 to ASS at sector-83 & RSS at sector-153 to ASS at sector-153.	Kindly refer to milestone B1-9, B 2-10 of Vol-7, STATMENT C.
286	Volume-4	Chapter-11A, Specification, auxiliary network	74 of 91	5.7.6.c.1	Single point bonding	As per earthing practices as laid down in IS 3043: latest version, this standing voltage should not exceed 65 volts. Typically, single point bonding is adopted for feeder lengths not exceeding 1km.	We presume that the single point bonding shall be adopted for feeders with induced sheath voltage (normal) not exceeding 65volts & not as per the feeder length specified. Kindly confirm	It is confirm that voltage in any case should not exceed 65 volts. 1 Km is just a broad guideline for choosing the type of bonding. Actual designing to be done by the contractor.

287	Volume-4	Chapter-11A, Specification, auxiliary network	85 of 91	7	transformer connection	<p>i)connection from a main earth terminal (MET) for transformer neutrals to the earthing stations in the ground will be provided by E&amp;M contractor. Connection from the transformer neutral to this earth bus (MET) for transformer neutrals will be provided by NE-01 contractor</p> <p>ii) the auxiliary transformer neutral is required to be connected to the ASS earth by means of 2 independent connections.</p>	<p>We presume that the transformer neutral from MET to earth station shall be connected by E&amp;M contractor &amp; transformer neutral to MET shall be provided by NE-01 contractor with 2 independent connection. Kindly confirm</p>	Confirmed
288	Volume-4	Chapter-12A, control & monitoring general Specification,	45 of 89	6.3.8(xxv)	ETS	ETS operation at (X) location	<p>We do not envisage emergency tripping system for elevated metro substations. Kindly confirm</p>	Confirmed
289	Volume-4	Chapter-11A, Specification, auxiliary network	7 of 91	1.2.1	Transformer sizing	<p>The number and capacity of the transformers are tentative and is subject to confirmation.</p>	<p>We presume the bidder has to consider the ratings and quantity of transformers mentioned here for estimation and any variation to the same during detailed engineering shall be paid by the client. Please confirm.</p>	<p>The rating of transformer shall be finalized by NE-01 contractor as per detailed design engineering without any financial implication which means DMRC will not pay anything extra. The rating mentioned in spec is minimum requirement.</p>

290	Volume-4	Chapter-11A, Specification, auxiliary network	55 of 91	5.1	cable sizes	Cable Sizes	We presume that the cables shall be single run & cable size shall be as per the table and any changes in the sizes will be payable by the client. Kindly confirm	Size of cable give in spec is minimum requirement NE-01 contractor shall provide the size of cable as per detailed design engineering without any financial implication which means DMRC will not pay anything extra.
291	Volume-4	Chapter-12A, control & monitoring general Specification,	22 of 89	4.8	NE-02 contract interface	NE-01 contractor shall also interface with RSS contractor for relays provided under NE-02 contract in underground station	We do not find interfacing requirements with NE-02 contract. Kindly clarify the same.	NE-01 Contractor need to interface with RSS contractor (NE-02) for provision of protection and settings of relays for 25 kV and 33 kV systems. These relays have to be provided in RSS by NE-02 contractor.
292	General	-	-	-	-	-	Kindly provide SAS architecture & technical specification	This will be provided to the successful bidder at the design stage.
293	General	-	-	-	-	-	Kindly clarify whether GPS shall be independent or shall be hooked up with existing line-3.	GPS shall be independent
294	Volume-4	Chapter-9A,	29 of 40	15.r	RTU	-	We presume that auxiliary supply of RTU shall be from the DC System of the ASS. Kindly confirm	Confirmed

295	Volume-4	Chapter-12A, control & monitoring general Specification,	6 of 89	1.1		The NE-01 contractor shall provide a replica of OCC SCADA server system hardware and software with complete configuration for back up control center at RSS(sector-153)	We presume UPS shall be provided in BCC similar to OCC. Kindly clarify.	Please adhere to tender condition (Cl-6.1 of Ch-12B, Vol-4)
296	Volume-4	Chapter-11A, Specification, auxiliary network	85 of 91	8.1	Linear Heat Sensing Tube	The 33kV switchgear panels, trafo, ACDB & DCDB in ASS shall be protected against fire by means of an automatic fire detector and extinguisher system, firetrace or equivalent, complete with extinguishing cylinder approved by chief controller of explosives.	Since the 33kV switchgear is of GIS type, we are not envisaging AFPS system for the same. Pl confirm.  Please confirm whether AFPS has to be provided for the wall ACDB / DCDB which are wall mounted.	There shall be no AFPS for 33 kV GIS panel.  To be provided. You may refer to Cl-8.1 of Ch-11A, Vol-4 of tender conditions.
297	Volume-4	Chapter-10	Page 12 of 76	2.1		Minimum Height of Contact wire at support - for Regulated OHE (with Presag) = <b>5.05m</b>	In DMRC, Minimum Height of Contact wire at support - for Regulated OHE (with Presag) is maintained at <b>5.00m</b> .  Kindly confirm.	Please refer contract specification.
298	Volume-4	Chapter-10	Page 47 of 76	7.3		The reduced size RC will be supported in OHE Mast along with the track except in station where it will be laid down under platform at DA provided by the civil contractor	We understand that the reduced size RC Specification are same as of OPC, therefore 2 Runs of OPC wire shall run along the mast which shall be supported on OHE Masts along the track.  Kindly confirm.	Confirmed.
299	Volume-4	Chapter-10	Page 46 of 76	7.2		In Stations the messenger wire will be protected with an insulated cover in order to avoid that birds touch messenger wire and return cable at the same time	Please clarify whether the insulated cover shall be used throughout the station area <b>or</b> only at adjacent cantilever location at entry/exit points of the Station.	The insulated cover shall be used throughout the station area.

C	GENERAL							
300	Volume 5	Drawings	All pages	-	-	-	Kindly provide all drawings in CAD format. This being a lump sum contract, CAD drawings will help us for quantity estimation	No Change in Tender Conditions.
301	Volume 5	Drawings	All pages	-	-	-	Kindly provide Depot - Section Drawings in CAD format	Necessary drawings will be issued to the successful bidder.



S.No.	Volume	Section	PageNo.	Clause	Item	RelevantAbstractfromTender	Query	DMRC Reply / Clarifications
302	Volume1	NIT&IT T	1,1 0	NIT1.1.1 &ITTA1 .1	NameofW ork	<p>The NIT issued states the name of work as:"Supply,Installation, Testing And Commissioning Of 25 kV Overhead Equipment (OHE),33KVAuxiliary Power Supply AndSCADA Systems for ElevatedCorridorOfNoida-GreaterNoidaSection(21Stations, 29.139RKM)AndRollingStockDepo tAtGreaterNoida" Whereas,the Cover pages of all Volumes of Tender Document, ITTA1.1 and Tender Forms mention brief Scope of works in this Contract as -</p> <p><b>"Design, Verification, Detail Engineering, Manufacture, Supply, Installation, Testing andCommissioning of 25 kV Overhead Equipment (OHE), 33 kV Auxiliary Power Supply and SCADA Systems for Elevated Corridor of Noida- Greater Noida Section (21Stations, 29.139 RKM) andRolling StockDepotatGreaterNoida"</b></p>	<p>Kindlyclarifythenameofthewor k,whethertheonegivenin NITORtheonegiveninTenderD ocument Coverpagesand ITTClauseA1.1,istobeusedinTe nderForms,POA's,MOU and other documents, so to enable us to prepare the TechnicalProposal.</p>	<p>The name of work should be read as " Supply, Installation, Testing and Commissioning of 25 kV Overhead Equipment (OHE), 33 kV Auxiliary Power Supply and SCADA Systems for Elevated Corridor of Noida-Greater Noida Section (21 stations, 29.139 RKM) and Rolling Stock Depot at Greater Noida -Contract No. NE-01.</p>

303	volume1	NIT&IT T	SubmissionofHARDCOPYdocu ments				Kindly in form the list of documents which is submit in hard copy and time for submission and address for submission	The Tender Document is to be submitted online except cost of tender document and tender security to be submitted in physical form as per tender document before deadline of submission of tender.
304	Volume7	Price schedul e	StatementN o. F	O17	OptionalIte ms	Supply Installation Testing Commissioning of 01No.Booster Transformer each for UP and DN line(Total02Nos.)and associated equipments and erection arrangements	Kindly provide Technical data sheet andratings forBooster Transformer	Kindly refer addendum no.-2.
305	Volume7	Price schedul e	StatementN o. F	O17	OptionalIte ms	Supply Installation Testing Commissioning of 01No.Booster Transformer each for UP and DN line(Total02Nos.)and associated equipments and erection arrangements	There is no provision of Booster Transformer in the sectioning.Kindly provide installation details	4 Nos. of BT (2 on UP + 2 on DN line) will be provided between knowledge park-II & DELTA-I station. Please see addendum No.-2.
306	Volume7	Price schedul e	Appendix 1	-		Vendor Approval and Selection Procedure	VendorApproval and Selection Procedure is not provided in the excel sheet. Kindly provide the same	Kindly refer Addendum No.-2..

307	Volume7	Price schedul e	Statemen tC costcente rsB1-B4	B1.8c	Costcenter BOQ	Viaduct Lights, Sockets and Fittings	Kindly confirm that supply of the cables for the same is not in our scope	Supply of cables for this purpose will be in scope of NE-01 contractor.  Para no. 14 of chapter 11 A, Volume 4 may be seen.
308	Volume4	Chapter3	Page23of4 2	clause3		Interfacing Requirement with Depot Civil Contractors (DEPOT)	We understand that the cable path including the support structure for Laying of 25kV & 33kV cables, including all IC&M cables inside DEPOT boundary shall be provided by the DEPOT contractor based on the design & cross-section given by NE-01 contractor. Kindly confirm.	Please refer interface matrix at chapter 3 of vol-4.

309	Volume4	Chapter2	Page5of11	Clauseno. '2.2.3.1	Auxiliary Main Substations(AMS)	All works,includingciviland generalelectricalworksrelatingto AMS Room and 33kV Switchgear and auxiliaries, inthe AuxiliaryMainSubstationsintheRS Premises,arewithinthe RSSContractor's scopeofwork.However,supplyanderection of33kVcablesfromtheoutgoing33kV Switchgearpanelsin the AMS Room to the 33 kV Switchgear panels in the designated ASS in the relevant corridor, is within the NE-01 Contractor'sScopeofWork	Weunderstand thatthecableTrench including thesupport structuresforLayingof33kVcablesfromthe outgoing33kV SwitchgearpanelsintheAMSRoom tothe RSSboundaryshallbeprovidedbytheRSScontractorbasedon thedesign&crosssectiongivenbyNE-01contractor. Kindly confirm.	Please refer interface documents at chapter 3 of volume-4.
310	Volume4	Chapter3	Page9of42	Table3.3 Item No.1	Erectionof OHE Masts,Anc horsetcon Rampportion.	NE-01willdotheinstallationof Masts,Anchorsetc. & RampCONTRACTOR willprovidethenecessary HoldingDown Bolts/ AnchorBoltsetcforsupportofMasts,anchorsetcin the Rampportion.	Kindly confirm supply ofOHE mast isinNE-01 contractor's Scope	Confirmed.

311	Volume4	Chapter3	Page9of42	Table3.3		CablesupportsysteminRamparea	Weunderstandthat the supply & installation of Cable supports i.e.cable trays &angles areinNE-01 contractor's Scope. & RampCONTRACTORwillprovidethenecessaryHoldingDown Bolts/AnchorBoltsetcforsupport	Confirmed.
312	Volume4	Chapter3	Page10of42	Clauseno 4.1	ITEMSOFIN TERFACE	ViaductContractorwillberequiredfor ProvidingOHEmasts,anchorsetc.onviaduct.	Kindly confirm supply ofOHE mast isinNE-01 contractor's Scope	Confirmed.

313	Volume 4	Chapter3	Page12of 42	clauseno.6	Earthingconnections	<p><b>NE-01contractor'sScope:-</b>NE-01willprovidedrawings showingthe earthingarrangement in piles, piers, segments, parapetetcwithearthingbarsburiedinconcrete,andofEarth terminals required to be provided on piers, pedestals, segments,parapetetc.andtheextentofweldingrequiredtobe doneonReinforcementbars.</p> <p><b>&amp;</b></p> <p><b>Viaductcontractor'sscope:-</b>Willsupplyandprovide Earthingbarsandearthterminals accordingtodrawings.</p>	KindlyconfirmsupplyofEarthingbarsandearthterminals inNE-01contractor'sScopeorViaductcontractor'sscope	Interface matrix in Chapter 3, Vol-4 may be seen.
314	Volume 4	Chapter3	page13of 42	itemno.9	60mmdiaembedded pipe	NE-01tocoordinatewithviaductcontractorforexactlocation ofpipes. NE-01 contractor shall supply and provide the pipes over viaductandoverparapetwall	We understandthat NE-01 contractor shall supply and providethe pipesoverviaductand overparapetwall. Kindly confirm	Confirmed.  In addition, pipe of track crossing for Laying of cable will be in the scope of NE-01.

315	Volume 4	Chapter3	page18of 42	itemno.5	AuxiliarySubstati ons	<p>NE-01 will provide necessary foundations for transformers, panels other equipment etc. Alternatively, the NE-01 can provide suitably designed anchor fasteners to fix transformers, 33kV panels, Battery chargers etc to the basic floor/pedestal.</p> <p>SBC will provide ASS room complete in all respects, including flooring, lighting, ventilation, power sockets, Access doors, rolling shutters, windows, ventilators and interior finish, but excluding foundations for transformer and panels. SBC will provide the necessary cut-outs for cable entry and exit</p>	<p>Kindly confirm that cable support for all type of cables is provided by SBC contractor in station building</p>	<p>Tender conditions are self explanatory. No Change in Tender Conditions.</p>
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316	Volume 4	Chapter3	page20of 42	itemno.3	Low Voltage Protection	E&M shall provide the necessary protection relay on the 415V Breakers and provide inter-tripping facilities (The HV Breaker will be provided by the NE-01)	Kindly confirm that all LV circuit breakers and protection relays will be provided by E&M Contractors	Tender conditions are self explanatory. No Change in Tender Conditions.
317	Volume 4	Chapter3	page21of 42	itemno.9	Viaduct Lighting	NE-01 will lay the feeders along the Viaduct and connect up the luminaries and control gear, as per approved designs.	We understand that supply of viaduct lighting cables are done by E&M contractors	Tender conditions are self explanatory. No Change in Tender Conditions.  (Clause 14, Chapter 11A, Volume 4).
318	Volume 4	Chapter3	page26of 42	itemno.2	Connection between Secondary of Auxiliary Transformer and the LV SB	NE-01 shall ensure that facilities are available on the Transformer Secondary to receive cable or bus duct (Bus ducts will be used for transformers 1000 kVA and above)	Kindly confirm that supply of BUS DUCT will be done by E&M Contractors in Depots	Supply of Bus-duct/ Cables will be in the E&M scope.
319	Volume 4	Chapter3	page31of 42	itemno.6	Normal and short circuit currents levels in the OHE	DD13B(T) will advise to SIG	Kindly explain what is meant by <b>DD13B(T)</b>	Kindly refer addendum no-02 NE-01 Contractor will have to interface with signalling contractor.



320	Volume 4	Chapter3	page32of 42	itemno.12	InsulatedRailJoints	SIG will providedetails regarding locations of insulated rail jointsonthelineandinthedepot/yard.	We understand that the supply of Insulated Rail Joints are donebySIGcontractor	Insulated rail joints are not required by signalling contractor. kindly refer addendum no-02 If required for traction purpose, it will be done by NE-01Contractor.
321	volume 1	NIT&ITT	Allpages	-	-	MobilizationAdvanceBG	As perthe tender,BGvaluecanbereducedoneduringthe wholecontractperiodprovided50%ofadvanceis recovered. We are proposingthatkindlyacceptthereductionin BGvalue oneach25%advancerecovery.	No Change in Tender Conditions.
322	volume 1	NIT&ITT	Allpages	-	-	HighSeaSale	WhetherHighSeaSaleisacceptable toDMRC.Incaseitis acceptable,whetherDMRCwillsupportto thecontractorto maintain/arrangethedocumentation/agreementas required forHighSeaSale?	No change in Tender conditions.

323	volume 2	SCC		Clause 24(2) (E)	-	Sale in the course of import	The sale in the course of import is acceptable to client. As this project is lump sum contract, whether client will accept price schedule along with quantities for the material to invoiced to client under "Sale in the course of import"?	Sale in the course of import is not acceptable.
324	volume 2	GCC		Clause 11.1.2	-	in the event of exemption of Custom Duties, excise Duties, CST/VAT or any other cess/levy being granted by the Government in respect of the Works, the benefit to the same shall be passed on to Employer.	We understand that as of now, there is no exemption available for Custom Duties, excise duties, CST/VAT or any other cess/levy except service tax on output service. In case exemption is available in future, there will be various expenses (like staff cost, travelling cost, consultant cost etc) to obtain the refund from the respective tax authority/department. Whether the same shall be reimbursed to the contractor?	Tender conditions are self explanatory. No Change in Tender Conditions.

S.No	Volume	Section	Page No.	Clause	Item	Relevant Abstract from Tender	Query	DMRC Reply
A	COMMERCIAL							
325	Vol-4, and Vol-7	Employer's requirement: PS - Scope of work	Page 67 of 91	cl.5.7.2	Right of Way charges	<p>Fee deposited by the contractor to Government Agencies for obtaining permission for Laying of Cables shall be reimbursed by DMRC on submission of documentary evidence of payment. Road restoration charges paid by the contractor to the civic agencies will be reimbursed by DMRC on submission of documentary evidence of payment. If for some stretch, road restoration is to be done by contractor, the price quoted in the BOQ shall be payable.</p>	<p>Please confirm that the price quoted by the bidder will be excluding the following ROW (Right of Way) charges and shall not be considered for price bid evaluation,</p> <p>i) The fees deposited by contractor to government agencies for obtaining permission for laying of EHV cables.</p> <p>ii) Road restoration charges paid by the contractor to the civic agencies</p> <p>The same will be paid to the bidder by LMRC extra at actuals against documentary evidence over and above the contract price.</p> <p>Expenses towards road restoration done by contractor shall be reimbursed by DMRC. Pl confirm</p>	<p>No Change in Tender Conditions.</p> <p>(i), (ii)Tender conditions are self explanatory. .</p> <p>No Change in Tender Conditions..</p> <p>If for some stretch, road is restored by NE-01 contractor, the cost shall be deemed to be included in the quoted price.</p>

326	Vol-2	SCC	Page 19 of 29	Cl.29	Contract Price	Contract Price	We request you to kindly clarify the following, (i) Whether Octroi or Entry Tax to be included in the Price Bid ? (ii) Whether Octroi or Entry Tax shall be considered for price bid evaluation? (iii) Whether Octroi or Entry Tax shall be reimbursed by LMRC?	Tender conditions are self explanatory. No Change in Tender Conditions.
327	Vol-2	SCC	Page 18 of 29	CL.28	Recovery of Advances	Recovery of Advances	We presume that there shall be no recovery of advances paid to the contractor. Pl confirm	No Change in Tender Conditions.
328	Vol-2	GCC	Page 49 of 66	Cl. 11.15	Tax deduction at source	Tax deductions will be made at source as per statutory requirement from every payment made to the Contractor at rates notified from time to time.	Please confirm that LMRC will provide necessary certificates for the Tax deducted at source (WCT / Income Tax) to the Consortium members separately.	DMRC shall follow relevant tax provisions.
329	Vol-2	GCC	Page 96 of 108	Cl. 14.6	Limitation of Liability	The total liability of the Contractor to the Employer under the Contract shall not exceed the Contract Price.	Kindly reduce the Limitation of Liability from 100% of the Contract Amount to 10%.	No Change in Tender Conditions.
330	Vol-2	SCC	Page 28 of 29	Clause No. 59	BOCW (Building and Other Construction Works) Cess	Bidders need to judge the applicability of BOCW for the work. Any liabilities on account of BOCW at any stage shall be on part of bidder and the quoted price shall be inclusive of BOCW charges. If same is not applicable, the bidder needs to submit required undertaking/certificates. The DMRC shall make the deduction accordingly and deposit the amount	Kindly confirm that the BOCW charges have to be paid only on the value of the Construction works excluding Supplies.  Also confirm at what rate the BOCW charges have to be paid as the documents does not specify exact %.	Tender conditions are self explanatory. No Change in Tender Conditions.

						to the concerned authorities.		
331	Volume 7	Pricing Document	-	-	Milestone Payment Schedule (MPS)	The price shall not be unbalanced therefore, the price quoted in the Cost Center-C (Installation and Site Testing) and Cost Center-D (System Acceptance Tests, Integrated Testing and Commissioning) shall not be less than <b>15%</b> and <b>10%</b> of the price quoted in the Cost Center-B (Manufacture and Delivery).	<p>Kindly reduce the minimum % indicated, with which the prices for Cost Centers C &amp; D to be quoted to avoid the unbalanced bid, as given below.</p> <p>Cost Center - C (Installation and Site Testing) - <b>7.5%</b> of the price quoted in the Cost Center - B (Manufacture and Delivery) &amp; Cost Center - D (System Acceptance Tests, Integrated Testing and Commissioning) - <b>4%</b> of the price quoted in the Cost Center - B (Manufacture and Delivery)</p>	No Change in Tender Conditions.
332	Volume 7	Pricing Document	-	Clause No. F.a	Milestones	<p>Cost Centers under each Section are fixed and shall not be changed by the Tenderer. The Tenderer, however, may add additional Milestones in a Cost Centre provided such Milestones genuinely related to that Cost Centre activity. The Cost Centers represent the major items of the Works for which the Employer will pay the Contractor, and the Tenderer shall</p>	<p>We request you to allow the Bidders to quote by splitting each Milestone into some Major Sub-Milestones broken into Major items of supply &amp; installation.</p> <p>Kindly confirm. This shall help in improving the Cash flow of the Contractor.</p>	No Change in Tender Conditions.

						ensure that he has allowed for all his costs he requires for the Contract to meet the Employer's Requirements.		
333	Volume 7	Pricing Document	-	-	Additional Scope	3. These unit rates shall be considered for the purpose of comparative evaluation of Tenders.4. THE CONTRACT PRICE WILL BE LOADED BY TOTAL PRICE OF THIS STATEMENT F, FOR FINANCIAL EVALUATION.	Kindly clarify the methodology by which the unit rates quoted shall be considered for the purpose of comparative evaluation of Tenders.	Kindly refer to A6 of Instructions for completing the Pricing Document. Please follow tender conditions.
334	Vol-1	NIT	4	Cl 1.1.4.2.A.iii	Minimum Eligibility Criteria - Work Experience - General Experience	At least one single work of value 80 Cr or more which shall include minimum of Design, Detail Engineering, Supply, Installation, and Testing And Commissioning of 11 kV and above INDOOR Auxiliary Sub-stations completed in last 10 years.	The word "INDOOR" has been capitalized in Minimum Eligibility Requirement. Generally, certificates issued by client do not specifically mention whether the Auxiliary Sub-stations executed are INDOOR / OUTDOOR. However, it is self explanatory that Metro/Monorail Projects always have INDOOR Auxiliary Sub-stations. For any other type of works like mainline, airside, etc. may consist of INDOOR or OUTDOOR or both. But the type of substation can be verified based on technical break-up given in client certificate such	Kindly refer addendum no-02

							<p>as - Cabling connecting to the Transformers explain the Auxiliary Sub-station to be an INDOOR type whereas in case of Transformer connected through Bays and Overhead lines explain the Auxiliary Sub-station to be OUTDOOR type.</p> <p>Now, pertaining to above condition, it would be appropriate to substantiate the word "INDOOR" Auxiliary Sub-station with suitable explanations for better understanding or delete the word "INDOOR" from INDOOR Auxiliary Sub-stations and only "Auxiliary Sub-stations" remains.</p>	
335	Volume 2	SCC	Page 17 of 29	Cl.24.C	Para 2	b) UP VAT Form of the contractor for the relevant period/periods along with detailed statement in applicable form & copy of Challans in regard to deposit of tax.	<p>We have various project in Uttar Pradesh State and projects wise UPVAT registration no is not applicable. Therefore, we have single UP VAT registration no. Accordingly, the UP VAT form (as stated in sub-clause b of Clause 3.6. Para 2) will contain the turnover/details for all the projects of UP State. Therefore, this sub-clause may be deleted.</p>	No change in Tender Conditions
336	General	-	-	-	Deemed Export Benefit	-	Please confirm whether deemed export benefits is applicable for this tender.	Please follow Tender Conditions
337	Vol-2	SCC	-	-	Safe Custody BG	-	We understand that safe custody BG shall not be applicable for this tender. Pl confirm	Confirmed.

338	Vol-3	GS	Page 5 of 11	Cl. 2.6.2	Procurement and Manufacturing Programme	Equipments supplied shall be similar to Phase-I....	Please amend the clause as equipment shall be used for utility projects. Pl confirm	No Change in Tender Conditions.
339	Vol-2	GCC	39/66	Cl. 8.5	Liquidated Damages	Liquidated Damages	The specified LD rates of 0.5% of the contract value per week with total ceiling of 15% of CV is very high and not as per industry practice. Request you to kindly modify the same as below  LD rate - 0.1% of the undelivered portion of milestone value per week Maximum Cap- 5% of the CV	No Change in Tender Conditions.
<b>B. TECHNICAL</b>								
340		Dwg no: NE-01-T-AX-TYPE-1000-0, NE-01-T-AX-S 144-1000-0, NE-01-T-AX-S 147-1000-0			Bus coupler quantity		Discrepancy between the drawing for bus coupler quantity for sector 144 & 147 Dwg no:NE-01-T-AX-S 144-1000-0, NE-01-T-AX-S 147-1000-0. kindly clarify which to be followed.	Kindly refer addendum No.-2.



341	Volume-4	Chapter-11A, Specification, auxiliary network, Dwg no: NE-01-T-AX-TYPE-1000-0,	7 of 91	1.2.1	33/25kV transformer	ASS in elevated, at grade sections	We presume that the 1 no. of 2MVA 33/25kV transformer is not considered in our scope of supply as the same is not indicated in the list of transformer table. Kindly confirm	02 Nos. of 2MVA, 33/25 kV transformers are in the scope of NE-01 contractor. Kindly refer addendum no-02
342	Volume-4	Chapter-3, Chapter-11A, Specification, auxiliary network,	26 of 42 34 of 91	8, 3.4.4.2	Auxiliary transformer differential protection	i) NE-01 will provide the necessary differential protection relays along with the matching CT's for both HV & LV sides. ii) the transformer feeder breakers(i.e. MVCB-1/2) should be provided with the following protections: a. transformer differential protection (87T) (for UG only)	We presume that the transformer differential protection shall be provided for underground stations. Kindly confirm & remove the mentioned clause from interface between E&M contractor & NE-01 contractor.	Kindly refer addendum no-02

<b>S. No.</b>	<b>Reference to Bid document</b>	<b>Brief Description of Clause/ Para No.</b>	<b>Query Raise</b>	<b>DMRC Reply / Clarification</b>
343	1.1.3 Source of Funds Page 2 of NIT	"This is a NON-JICA funded Contract and project shall be financed accordingly.	Kindly provide the funding agency name and status of fund allotted.	On behalf of NMRC, DMRC shall be handling the contract and shall be releasing the payment as per contract..
344	1.1.4.2 Minimum Eligibility Criteria on Page 4 of NIT	At least one work / two work / three works of Supply Installation, Testing and Commissioning of 11kV and above INDOOR Auxiliary Substation.	Request to kindly allow bidders having experience of 11kV and above Substation works also rather Indoor Auxiliary Substations.	Kindly refer addendum no-02.
345	1.1.4.2 Minimum Eligibility Criteria on Page 4 of NIT	If the bidder is a JV/Consortium and has a foreign partner and above work(s) have been done by the foreign partner of JV and such work(s) were done in the country of the foreign partner then in addition to this, the foreign partner must have done at least one work of value Rs. 76.00 crores or more of similar nature (i.e. any Electrical engineering work of infrastructure related project) outside the country of origin of the foreign partner.	If the bidder in JV is a foreign partner then the experience of similar works shall be sufficient and therefore request you to kindly allow the foreign partner to have similar work in their own country itself.	Kindly refer addendum no-02.
346	1.1.4.2 Minimum Eligibility Criteria on Page 4 of NIT	In case the work(s) listed under A(i),(ii) or (iii) do not include Traction SCADA of Railway/ Metro , then the tenderer or any of its constituent member in case of JV/ consortium should have executed a work with Traction SCADA of Railway/Metro of value equal to at least Five crore.	Request to kindly allow sub-contractor for SCADA works having experience in Railway / Metro as SCADA is a specialized work and can be executed by the sub-contractor.	Kindly refer addendum no-02

347	1.1.4.2 Minimum Eligibility Criteria on Page 4 of NIT	In case the work(s) listed under A(i),(ii) or (iii) do not include Traction SCADA of Railway/ Metro , then the tenderer or any of its constituent member in case of JV/ consortium should have executed a work with Traction SCADA of Railway/Metro of value equal to at least Five crore .	Request to kindly allow sub-contractor for SCADA works having experience in Railway / Metro as SCADA is a specialized work and can be executed by the sub-contractor.	Kindly refer addendum no-02
348		Civil Planning	Request to kindly provide the civil schedule and milestone for completion of work as Electrical work is completely dependent on the front availability. Any delay will result into huge losses.	Contractors to coordinate for the access dates with other contractors and employer will facilitate the same.
349	C2.3 Page 19 of ITT	The Tenderer shall submit with his Tender : (g) Proposals for use of Works Areas given to him by submitting the layouts showing fabrication and storage areas	Kindly allow us to submit the layouts after award of work.	Tentative layout will be acceptable at this stage.
350	C2.3 Page 19 of ITT	The Tenderer shall submit with his Tender : (g) Proposals for use of Works Areas given to him by submitting the layouts showing fabrication and storage areas	Kindly allow us to submit the layouts after award of work.	Tentative layout will be acceptable at this stage.
351	C2.4 Page 20 of ITT	The Employer may get, from the Government, partial or complete waiver of taxes, royalties, duties, Labour cess, octroi, and other levies payable to various authorities.	Kindly let us know what are the relaxation in taxes at tender stage	Please follow tender Conditions.

352	C7 Page 21 of ITT	The design/Design validation of the Works shall be undertaken by a designer (the Designer) and separate Independent Auditor who has experience in the design/audit of similar works respectively as in scope of tender. Approval of the proposed Designer and Auditor intended to be engaged shall be obtained from DMRC before engaging the Designer/Auditor by the contractor.	Kindly provide us the list of designers approved by DMRC so that we will be engaging approved DMRC designers only to avoid any future ambiguity.	Tender Conditions are self explanatory. No change in tender conditions.
353	C7 Page 21 of ITT	The Tenderer shall submit with his Tender details of the agencies proposed to be hired and either the proposed terms and conditions upon which the Designer/Auditor would be appointed in the event of acceptance of the Tender (excluding the financial and commercial terms thereof) or at least a statement of the heads (salient features) of such an agreement. The Tenderer should note that, if heads of agreement are supplied with the Tender, the Tenderer may be required to develop such heads into a full agreement during the tender evaluation period and to submit the agreement in its final form prior to award of the Contract.	Kindly provide us the list of designers approved by DMRC so that we will be engaging approved DMRC designers only to avoid any future ambiguity.	No change in tender conditions
354	CIC18.1 page 24 of ITT	Any deviation in bid security with regard to amount, validity and format shall be considered as material deviation and bid shall be dealt accordingly. No clarification shall be sought from the bidders regarding bid security	Please confirm the BG with addition of bank NWC clause shall also be applicable to DMRC as it was accepted in previous DMRC tenders. You would appreciate that this is very critical in bid submission and would need your response at the earliest	The tender security BG with NWC clause (as given in Performance security BG clause 11) shall also be acceptable