

Reply to Pre-bid Queries

Name of Work: DESIGN, SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 25 KV SINGLE PHASE, 50HZ AC, REGULATED, CONVENTIONAL AND TRAMWAY TYPE OHE IN "AT GRADE" SECTION AND MIHAN DEPOT, 33/25 KV TRACTION SUB STATION & SSP INCLUDING 33 KV CABLING WORK OVER NORTH SOUTH CORRIDOR OF NAGPUR METRO RAIL CORPORATION LIMITED

Tender No. N1Tr-02/2016

S. No.	Section/Clause	Para as per bid document	Bidder's queries/ Amendment sought	Clarifications / Amendments
1	Clause No. 3.2.7 Cabling	Clause No. 3.2.7.1 :- Fees deposited by the contractor to Government Agencies for obtaining permission for laying of HV cables shall be reimbursed by NMRC on submission of documentary evidence of payment. Only road restoration charges paid by the contractor to the civic agencies will not be reimbursed by NMRC and therefore the price of Road restoration shall be included in the price schedule.	The road restoration charges varies for all the civic authority, we need to have the exact detail of route & the civic agency involved along with their rates for road restoration. As the process is time consuming and there is no separate BOQ item for quoting the road restoration charges. Hence we request NMRCL to bear the cost towards road restoration as provided by the local civic authorities. This will ensure competitive bidding & smooth progress of work. Kindly confirm.	HDD method is proposed in the scheme to obviate road cutting. Hence road cutting would be very minor in scope even if it is required as an exigency. Bidder has to conduct a proper site survey for ascertaining the feasible cable route and also assess the road restoration requirement and quote accordingly
2	GENERAL CONDITIONS ITB 14.11	As per Notification No. 25/2012 – Service Tax Act (dated 20.6.2012) under section 93(1) read with section 66(B) of the Finance Act, by way of erection, construction, commissioning or installation of original works pertaining to railways including monorail or metro are exempted from the whole of service tax leviable thereon. The said notification is applicable for main contractors and even for subcontractors. The Bidders shall examine his own assessment in regard to service tax liability in the contract. No separate tax reimbursement will be made by NMRCL.	As per Union Budget 2016, service tax exemption on Metro Projects has been withdrawn (NOTIFICATION No.9/2016-Service Tax). Please clarify whether we should quote with or without service tax.	We have assumed that exemption exists. In case the same is withdrawn and the contractor has to pay this service tax then it shall be reimbursed against documentary evidence.

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3	Sub Clause no. 13.7	The Contract Price shall be adjusted to take into account any new taxes or any statutory variation in Custom Duty, Excise Duty and Sales Tax (VAT or CST as applicable) on finished product/item during the contractual completion period shall be to the Employer's account for which the Contractor shall furnish documentary evidence in support of their claims. However, any increase in the cost due to new taxes or change in the existing taxes introduced during the extended contractual completion period due to the Contractor's fault shall be to the Contractor's account.	The variation in the same in near future by State or Central Government is not clear at present, hence we hereby request you to kindly make the payments of variation in taxes as per actual as and when implemented by the government.	Refer clause 13.7, which is self explanatory
4	BOQ SECTION IV, HT CABLING	6) Supply laying of HDPE pipe suitable for above cables through HDD technique horizontal boring	Kindly give the HDPE pipe details (Size, thickness, outer diameter, pressure rating)	Min size - 110mm inner dia, thickness - 8mm, pressure - 4.6kg/sq.cm
5	BOQ SECTION IV, HT CABLING	Suggestion for cable laying	It is also suggested the total cable laying work in the road can be done by HDD method. So that damaging of the road, repairing, refilling and surface levelling bituminous taring can be avoided.	HDD is only envisaged for crossing of railway or roadway
6	BOQ Schedule- 'C'	Insulator	As per BOQ only given supply part of insulator and erection part is not given i.e. erection part is not in contractor scope So kindly clarify this scope.	Erection of these insulators are covered in complete assembly erection of Cantilevers, Isolators, Section Insulators. Refer Explanatory Note Section-I, Item No. B-6
7	Schedule- 'D' Nonferrous & misc.	Supply of overhead equipment. a) Dropper wire (5mm) b) Dropper wire (7mm) "c) annealed copper Large jumper wire (105 sq.mm)19/7/1.016mm" "d) Annealed copper Small jumper wire (50 sq.mm 19/1.8 mm)"	As per BOQ only given supply part of OHE equipment and erection part is not given i.e. erection part is not in contractor scope. So kindly clarify this scope.	Refer Explanatory Note Section-I, Schedule 'B' Item No. 10 & 11 and Schedule 'D' Sr.No.3

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8	Schedule-'D' Nonferrous & misc.	15. Contact Wire (150sqmm) 16. Catenary Wire (65sqmm)	As per BOQ only given supply part of contact and catenary and erection part is not given i.e. erection part is not in contractor scope. So kindly clarify this scope.	Referred items' erection is covered under Section-I, Schedule 'B' Sr.No.10 & 11
9	Schedule- 'E' Miscellaneous	Supply and Erection of following Boards:	As per BOQ only given supply part of boards erection part is not given but as heading show both supply and erection work. So kindly clarify this scope.	The rates for Schedule 'E' items are for Supply & Erection combined
10	Schedule - 'F' Item specific for Mainline (Non Depot) Section.	Supply of OHE equipment. "a) Dropper assembly flexible type as per Metro system" "b) Jumper assembly (Large jumper complete for Metro System)" "c) Jumper assembly (Small jumper complete for Metro System)"	As per BOQ only given supply part of OHE equipment and erection part is not given i.e. erection part is not in contractor scope. So kindly clarify this scope.	Referred items' erection is covered under Section-I, Schedule 'B' Sr.No. 10 & 11
11	Section – II Sub- Sectioning Post SSP	13 (h)(i) "Erection, testing and commissioning of 25 KV Double pole Isolator [1600A]" 13 (h)(ii) "Extra on item 13(h)(i) for an inter-locking device."	As per BOQ given erection part of isolator 13(g)(i) but in 13(h)(ii) its given supply and erection part So kindly clarify this scope.	Please refer the Explanatory Notes of 13(g)(i) but in 13(h)(ii) and also Schedule-B (IV) supply items
12	Section – II Sub- Sectioning Post SSP	17(n) "Erection of maintenance free earth kit."	As per BOQ only given erection part of earthing but without supply how we will erect maintenance free earth kit. So kindly clarify this scope.	Please refer BOQ and Explanatory Note of Schedule-B (IV) Sl.No.202, Item No.17(n)(i)
13	Section – II Sub- Sectioning Post SSP	18(a) "Erection of single pole 25KV SF6 gas / Vacuum type Interrupter" 18(b) "Erection of single pole 25KV SF6 gas / Vacuum type Circuit Breaker"	As per BOQ item scope show only erection not supply work but as rate column given both supply and erection rate. So kindly clarify this scope.	Please refer BOQ and Explanatory Note of Schedule-B (IV) Sl.No.204 & 205, Item No.18(a)(ii), 18(b)(ii)
14	Section – II Sub- Sectioning Post SSP	31(g) (i) "Dismantling of Aluminum Bus bar."	Kindly provide us size of aluminum bus bar.	The qty of this item is nil. This item has figured as it is a part of general Traction schedule.

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15	Section – II Sub-Sectioning Post SSP	31 (g) (vi) "Dismantling of control room equipment."	Kindly provide us rating of this transformer.	The qty of this item is nil. This item has figured as it is a part of general Traction schedule.
16	Section – II Sub-Sectioning Post SSP	31(t) (viii) "Releasing of plinth/pole mounted LT supply transformer."	Kindly provide us rating of this transformer.	The qty of this item is nil. This item has figured as it is a part of general Traction schedule.
17	Explanatory Note Section II & Section III Schedule A	Item No. 46 - Supply, Erection, testing and commissioning of 33kV/27.5kV, Traction power transformers	RDSO specification No. mentioned in given item No(TI/SPC/30TRN/2070) is for 30MVA,132kV/27kV Single phase Transformer and not for 3 MVA 33kV/27.5kV Single phase Transformer. Kindly give Technical specification for 3 MVA 33kV/27.5kV Single phase Transformer	The MVA rating of single phase transformer is 3/5MVA, 33/25kV. It should largely follow the quoted specification excepting its Clause 5.3, alternative of which is enclosed herewith in Corrigendum-II, Sr.No.-1
18	Explanatory Note Section II & Section III Schedule B IV Isolators	Item No. 27 c Supply of LT Control Panel for AT Location	RDSO Spec No. TI/SPC/PSI/CLS/0020/ (12/02 Rev 3) includes control panels for following kVA ratings/ Current in Amps (5KVA/30A),(10KVA/60A),(25KVA/150A),(50KVA/300A) Kindly confirm kVA of AT for which color light signaling supply is required.	Auxiliary Transformer shall be of 10KVA
19	Explanatory Note Section II & Section III Schedule A Item No. 46 c Supply of AZM 1114 + [AN Series]	Explanatory Note Section II & Section III Schedule A Item No. 46 c Supply of AZM 1114 + [AN Series]	Kindly confirm the type of relay required for AZM 1114 + [AN Series].As per our RDSO specification TI/SPC/PSI/PROTCT/5070 AZM 1114 is Numerical Integrated Feeder Protection Relay. Kindly confirm AN series relays.	Bidder to consider it as per best practice
20	Explanatory Note Section II & Section III	Schedule B VI Capacitor Bank Item No. 47 a b c d e f g BOQ, Schedule B VI	In BOQ, capacitor bank rating mentioned is 1200 KVAR and In Explanatory note specification is given for capacitor bank 2400 KVAR . Kindly give Technical specification of 1200 KVAR capacitor bank	In explanatory notes Section II & Section III Schedule B VI Capacitor Bank Item No. 47 (a,b,c,d,e,f,g) the capacitor bank rating to be considered as 1200 KVAR instead of 2400 KVAR. Rest technical specification is as mentioned.

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21	Explanatory Note Section II & Section III	Schedule A Item No. B15/B16 BOQ Schedule B Ferrrous Items 15/16	Kindly confirm the weight to be considered for counter weight 20 Kg / 40 Kg / 60 Kg.	Counter weight of each block 40/20kg may be considered. Total 480kg (12 blocks) for mainline.
22	Part 4 Pricing documents Financial bid and BOQ	Sr. No.2. Price Variation applicable for Catenary, Contact Wire, Messenger Wire	Kindly confirm Price variation formula applicable for Catenary, Contact Wire, Messenger Wire, pole/ etc.	Price variation formula applicable for Catenary, Contact, Messenger wire is attached as Addendum-I, Sr No.-1
23		Design of Tubular Portal	<p>Please provide us basic specification and clarify these points for quoting:-</p> <p>i) Spacing of span ii) Length</p> <p>iii) Weight of OHE iv) Factor of safety v) It will single unit or multiple unit fabricated vi) Height of portal whether it is semicircular or conical vii) Diameter of pole, whether it is uniform or variable viii) The scope of getting RDSO/Railway board's approval for the new tubular portal design shall be with NMRCL.</p>	<p>Complete design of tubular portal considering OHE load as applicable is within contractor's scope. Pointwise reply to the details asked are as below:</p> <p>i) The span of portal will depend on track centre & implantation requirement. For two tracks it will be 8.0 m to 8.5m ii) The tension length of OHE shall be 1200 - 1500 m iii) It is standard OHE with 150 sqmm Contact & 65sqmm Catenary iv) The mechanical strength of the portal should have safety margins governed as per IS 1984 v) & vii) This comes under purview of design vi) The portal height should be able to support Contact wire at 5.2m and catenary wire with encumbrance of 90cm and have sufficient vertical / horizontal clearances etc. viii) The design is to be submitted to RDSO via NMRCL for necessary approval. NMRCL will facilitate.</p>

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24		MODE OF AWARD OF CONTRACT	Not Mentioned in Tender Whether it is divisible or single contract. Kindly clarify for the same.	It will be Single Contract
25		4. Experience Minimum of Design, Detail Engineering, Supply, Installation, Testing and Commissioning of Power Supply system of 25kV and above Traction (Flexible OHE) Systems. Minimum one contract for elevated /at-grade / underground sections of Metro rail or suburban rail or mainline railway of length at least 15 track-km. OR Minimum two contract for elevated / at-OR grade/underground sections of Metro rail or suburban rail or mainline railway of total length at least 20 track-km. OR three contracts for elevated/ at-grade/ underground sections of Metro rail or suburban rail or mainline railway of total length at least 25 track-km. All Parties Combined- Must meet requirement Each Member-25% One Member-N/A	The same may be considered as below:- Minimum of Design, Detail Engineering, Supply, Installation, Testing and Commissioning of Power Supply system of 25kV and above Traction (Flexible OHE) Systems. Minimum one contract for elevated/at-grade/ underground sections of Metro rail or suburban rail or mainline railway of length at least 15 track-km. Minimum two contract for elevated/at-grade/underground sections of Metro rail or suburban rail or mainline railway of total length at least 20 track-km. Same N/A One Member - Same	Please refer Corrigendum-II, Sr. No.-6
26	BDS ITB 4.1	The other members of the JV/Consortium apart from the Lead member must meet the minimum 20% of experience criteria as stipulated in Section III, Part-1 Work Order	All the partners together must meet the experience criteria stipulated in the section III (Experience Criteria)	ITB 4.1 in the BDS is modified and should be read as produced in Corrigendum-II , Item Sr No 2.
27			Kindly issue two separate work orders for Supply and Erection.	Single LOA shall be issued

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28			<p>CABLE ROUTE/ROAD REINSTATEMENT OR RESTORATION</p> <p>As per site survey & preliminary meeting, we understand that the cable route is yet to be jointly finalized by NMRCL & MSETCL/ MSEDCL. The proposed tapping point is 132/33 KV Butibori Sustation & Cable is to be laid upto NMRCL Depot(TSS). As the route length is yet to be finalized & approved by the competent authority, we are unable to identify. The statutory authority involved can be PWD/NHA/NMC etc. Each authority has separate charges for permission for excavation & laying of UG Cable.</p> <p>At present we cannot take into account the amount required towards the road reinstatement charges as the route, statutory authority & the charges for road reinstatement is not clear.</p> <p>We request NMRCL to bear the cost towards road reinstatement charges as per actuals during excavation & also provide the "Bank Guarantee" required to be submitted for the permission to the Road Authorities. This will enable us to quote the best competitive rates & will also give an opportunity to all bidders to give their quote with similar consideration. RAILWAY CROSSING: We request NMRCL to bear the payments towards</p>	<p>Any charges paid to statutory bodies like PWD/NHA/NMC/Railway for permission & ROW shall be reimbursed on production of documentary evidence. However, cost towards road restoration should be built in the offer of bidder.</p>
29	ITB 11.1.2-Part-1,SecII (Page No 36)	Upload the entire bid document	<p>Uploading of Tender document duly stamped & signed on each page is required or not</p>	<p>Yes, it is mandatory to upload digitally signed complete tender document. Otherwise, the offer shall be rejected summarily and shall not be considered at all</p>

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30	Section-I (OHE) schedule-A. item 3.	Design of Tubular Portal	Details of Design Parameters/requirement of NMRCL to be given.	It is in Bidder's scope as per Schedule-A, SI.No.3
31	Section-I (OHE) schedule-F. item 1 to 4.	Items Specific for Main Line (Non- Depot) section.	Make-Imported or Indegenions ?? In case of imported 1) Names of Approved sources for supply: 2) Requirement are very mearge to importand supply. 3)SOR rates of schedule- F & SCHEDULE-B are same.	For mainline Imported items & for depot Indegenious to be considered. Galland-SAS, RIBE, Pfisterer, Aurther Flury, Furer & Fery, Cariboni (Alstom) are some the manufacturer of Imported items. Tender Drawings for fittings applicable in this schedule are provided as Addendum -1 , Sr No. 3. Percentage quoting option is available for Schedule-B & F separately, hence may be quoted accordingly
32	Section-III (TSS) schedule-A. Item 46. (SI.No.182)	SE T&C of 33KV/25KV, 3MVA Traction Power Transformer	Reference pf General specification of RDSO for Traction transformer 30MVA, 220,132,110,66/27 with on load tap changer TI/SPC/PS/30TRN/207 mentioned in Tender papers. 1) Relevant spec of RDSO required. 2) Approved sources for NMRCL & Rlys?? 3) Being non-standard item- Cost of Proto type Tests to be includedor to be borne by NMRCL.	1. The MVA rating of single phase transformer is 3/5MVA, 33/25kV. It should largely follow the quoted specification excepting its Clause 5.3, alternative of which is enclosed herewith in Corrigendum-II, Sr No.-1. 2. Not restricted. 3. Proto type cost to be borne by bidder
33	Section-I (OHE) schedule-B.(Ferrous Items) ItemNo. B- 9.	Supply of Overhead Equipment. Items a & b- Supply of Assorted Components for Conventional & Tram way OHE.	Mandatory supply of components whether required or nofor works. Surplus if any- To be handed over to NMRCL. Shortfall if any for works (not covered in the list) - To be supplied as required, without any extra cost, by Contractor. NMRCL to clarify for working of estimates for tender costing.	All components shall be supplied by bidder to as to complete the work as per specification. Mandatory supply components are the minimum quantity must be supplied. Also refer Note of item B-9(a) in explanatory notes

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34	Section-I (OHE) schedule-D.(Non Ferrous & Misc) Item No. 17 (a) & 17 (b)	17 (a) - Overhead Protection Wire used in Metro Rail System (OPL). 17 (b) - Buried earth cable used in Metro Rail System(BEC).	RDSO/Metro Rail specification and approved sources for the items required. Ref. CL. 7.5.1.6. Part -II -Section VII B Particular Specification	Specification provided in Addendum -I , Sr No.2
35	Supply of all materials under scope of OHE works.	Supply of fittings/components/ Equipments/Conductors & Cables for Nagpur Metro Rail OHE works.	To be supplied as per standard RDSO approved Specification & Designs. In case of NMRCL's requirement for any item to be supplied as per approved Designs & Specification, the same to be considered as NS ITEM (Non schedule) Since not envisaged/ considered during tender submission.	Refer reply against Sl. No.33
36			Kindly considered eligibility and Qualification Criteria for Ref. (4.2) (a) Joint Venture (existing or intended). Instead of each member one member must meet requirement 25% Minimum of design, Detail Engineering, Supply, Installation, Testing and commissioning of power supply system of 25 kV and above traction (Flexible OHE) Systems Minimum one contract for elevated/ at-grade/underground section of Metro Rail or suburban Rail or Mainline Railway of length at least 15 track -km. Or Minimum two contracts forelevated/at -grade/underground section of Metro Rail or suburban Rail or Mainline Railway of total length that least 20 track km. OR Minimum three contract for elevated / at -grade/underground section of Metro Rail or suburban Rail or Mainline Railway of total length at least 25 track km	Please refer Corrigendum-II, Sr. No.-6

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37			Schedule 'F' Item specific for mainline (Non Depot) Swction. Cantilever Assembly Modular Type (Single bracket assly for conventional OHE of Metro System). This schedule items are purely Imported items , and are in too small quantities and it is not possible to supply. So if possible can these material are supplied by Metro Nagpur.	No, Contractor has to supply & erect the same. Refer reply against SI.No.31
38	Section -III Traction Sub- Station TSS Work		In tender schedule there is a material given by you are of 132 kV but the above TSS work are of 33/25 KV. So how could 132kV materials are used in place of 33kV, these are the following materials given;	33kV materials to be used with insulation ratings applicable for 66kV sub-station. It should be as per RDSO specification TI/SPC/PSI/30TRN/2070. Refer to Corrigendum -II, item No-3



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