

Name of work : "Design, Supply, Installation, Testing and Commissioning of Ballasted/ Ballast-less track in At Grade section of Reach 1A and elevated viaduct of Reach 2A & Reach 4A of NMRP Phase-2 including supply of 1080Grade HH Rails, track fastenings, 1 in 9 R300 Ballasted/Ballastless turnouts & Derailing switches and other miscellaneous works."

Tender No. N2-50/T-02/2024

DATE : 18.09.2024

CORRIGENDUM - 1

Following modifications in the Bid provision shall apply:

Sr. No.	Section	Page no./Clause No.	Existing Provision	Revised Provision
1	Part-1, Section-III 4.2 (a) Specific Construction Experience	Page 61 of Tender Document	A) A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 7 (Seven) years, ending on the last date of the month, previous to which the latest bid due date falls.	A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 10 (Ten) years , ending on the last date of the month, previous to which the latest bid due date falls.
2	Part-1, Section III 4.2 (a), Specific Construction Experience, Note:- 2.	Page 62 of Tender Document	Note:- 2. ****Other Member (JV) experience: Other member of the JV must have completed work amounting to INR 37 Crores towards *Similar Works in maximum 2 contracts collectively.	Note:- 2. ****Other Member (JV) experience: Other member of the JV must have completed work amounting to INR 37 Crores towards Ballastless/Ballasted track installation in maximum 2 contracts collectively.
3	Part 4: Financial Bid & Bill of Quantities, Schedule-D (BLT-1), Item 5	Page 1151 & 1175 of Tender Document	Schedule-D (BLT 1) Item no 5: "Payment for all expenditure over and above for plinth heights specified in the tender for extra reinforced concrete." Annexure-III: EXPLANATORY NOTES OF BOQ Item no 5: "Painting of rail with anti-corrosive bitumen black paint as per IS:9862. Application of Paint: Painting should be done in two coats of 100 microns each using anti-corrosive bituminous black paint conforming to IS:9862, with an interval of 8 hours between coats."	Schedule-D (BLT 1) Item no 5: "Payment for all expenditure over and above for plinth heights specified in the tender for extra reinforced concrete." Annexure-III: EXPLANATORY NOTES OF BOQ Item no 5: Payment for Additional / Extra RMC including other associated expenditure due to increase in plinth / slab heights only over and above given in Item 1a (BLT-1 SCHEDULE D) (no additional payment for increase in width of plinth / slab due to change in design of slab / plinth). This item includes additional requirement of steel, RMC, shuttering, manpower and other related expenses due to increase in height of plinth/ slabs over and above 240mm. Quantity of additional / extra RMC shall be calculated from site survey of plinth/slab. Increase of plinth / slab height due to super elevation shall not be considered for calculation of extra RMC. Any increase / decrease in rail plinth height for normal track (causing increase in RCC quantity for plinth height more than 240mm or reduction in RCC quantity for plinth height less than 220mm) will be compensated/deducted as per this BOQ item. For calculation of rail plinth height for each span, average of height of rail plinth segments, measured at center of each plinth segments for that span shall be considered. Plinth concrete need to be measured Viaduct span wise, based on above clarification. If tenderer proposes different track structure with enhanced minimum plinth / slab height, upper limit of plinth / slab of 240mm shall also be enhanced accordingly and quantity for extra RMC for payment shall be calculated over and above of enhanced upper limit of plinth / slab height. This clause is applicable only as per site conditions.



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Tender No. N2-50/T-02/2024

DATE : 18.09.2024

CORRIGENDUM - 1

Following modifications in the Bid provision shall apply:

4	Part 2: Work Requirements, Section VII B: Particular Specifications, Chapter 7: Material & Workmanship,	Page no 290 of Tender Document	CHAPTER 7: MATERIAL & WORKMANSHIP: MATERIALS AND COMPONENTS 7.1 MATERIALS TO BE SUPPLIED BY MAHA METRO 7.2 MATERIALS TO BE SUPPLIED BY CONTRACTOR 7.3 APPROVED MANUFACTURERS	CHAPTER 7: MATERIAL & WORKMANSHIP: MATERIALS AND COMPONENTS 7.1 Track Components 7.2 Concrete Plinth (Ballastless Track) 7.3 ALUMINO-THERMIT WELDING PORTION 7.4 SIGNAL AND TRACTION RETURN RAIL BONDS
5	Part-4: Financial Bid & BOQ Annexure – II, Schedule of Stage Payment Bill No.SPM-1 - Item- 1,2 & 3	Page no 1155 of Tender Document	1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report, Submission of bank guarantee (Equivalent to proposed bill amount) and indemnification against the quantity of item supplied under this head: 50% 2. Installation at site: 20% 3. Testing and commissioning of Corridors/Depots where materials have been installed / used: 20% 4. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 10%	1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report, Submission of bank guarantee (Equivalent to proposed bill amount) and indemnification against the quantity of item supplied under this head: 80% 2. Installation at site: 10% 3. Testing and commissioning of Corridors/Depots where materials have been installed / used: 5% 4. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 5%
6	Part-4: Financial Bid & BOQ Annexure – II Schedule of Stage Payment Bill No.SPM-1 – Item-4,5,6 & 7	Page no 1155 of Tender Document	1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report: 60% 2. Testing and commissioning of Corridors/Depots where materials have been installed / used: 30% 3. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 10%	1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report: 80% 2. Testing and commissioning of Corridors/Depots where materials have been installed / used: 10% 3. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 10%



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Tender No. N2-50/T-02/2024

DATE : 18.09.2024

CORRIGENDUM - 1

Following modifications in the Bid provision shall apply:

7	Part-4: Financial Bid & BOQ Annexure – II Schedule of Stage Payment Bill No. BLT-1 Bill No. BLT-Item No.1 & 2	Page no 1157-58 of Tender Document	Laying of Plinth & Installation of Track work for plain track in M50 grade concrete with UIC 60 HH Rails with all fittings & fastenings etc complete on viaduct. Laying of RCC slab & installation of turnout in M50 grade concrete with UIC 60 head hardened rails with all fittings and fastenings. 1. On surveying: 5% 2. On approval of drawings with BBS an Method statement: 5% 3. On Provision of shear connectors, Rail setting, Plinth construction etc: 40% 4. On completion of rear work to achieve track tolerances as per employers requirements: 20% 5. On Completion of de-stressing, AT welding, marker boards, cleaning as per employers requirements etc: 20% 6. On Interface requirement of signalling contractor, measurement of final tolerances: 5% 7. On completion of acceptance tests, markers, testing and commissioning, employers other requirement etc: 5%	Laying of Plinth & Installation of Track work for plain track in M45 grade concrete with UIC 60 HH Rails with all fittings & fastenings etc complete on viaduct. Laying of RCC slab & installation of turnout in M45 grade concrete with UIC 60 head hardened rails with all fittings and fastenings. 1. On surveying: 5% 2. On approval of drawings with BBS an Method statement: 5% 3. On Provision of shear connectors, Rail setting, Plinth construction etc. : 40% 4. On completion of rear work to achieve track tolerances as per employers requirements: 25% 5. On Completion of de-stressing, AT welding, marker boards, cleaning as per employers requirements etc - 15% 6. On Interface requirement of signalling contractor, measurement of final tolerances: 5% 7. On completion of acceptance tests, markers, testing and commissioning, employers other requirement etc : 5%
8	Various places in the Tender document including but not limited to Technical Specification, Scope of Work BOQ	Various places in the Tender document including but not limited to Technical Specification, Scope of Work BOQ	RCC M50	Replace with the following: RCC M45
9	Part-2: Work Requirements Section-VII B: Particular Specifications	Page no 331 of Tender Document	7.1.7 BUFFER STOPS On main lines friction buffer with mechanical impact absorption (non-hydraulic type) shall be provided. The design and specification of friction buffers shall be submitted by the Contractor for Engineer's approval. The contractor shall interface with the designated Rolling Stock Contractor for the details required for the design of friction buffer stops. However, the following details are given for guidance and the detail specification is given in technical specification – • Weight of train is equal to 192 tonnes for 3-car train set with passengers. • Impact velocity for main line & test track: 25 km/h.	7.1.7 BUFFER STOPS On main lines friction buffer with mechanical impact absorption (non-hydraulic type) shall be provided. The design and specification of friction buffers shall be submitted by the Contractor for Engineer's approval. The contractor shall interface with the designated Rolling Stock Contractor for the details required for the design of friction buffer stops. However, the following details are given for guidance and the detail specification is given in technical specification – • Weight of train is equal to 192 tonnes for 3-car train set with passengers. • Impact velocity for main line & test track: 25 km/h. The total length of installation including the sliding distance is to be limited to a maximum distance of 20m.





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Tender No. N2-50/T-02/2024

DATE : 18.09.2024

CORRIGENDUM - 1

Following modifications in the Bid provision shall apply:

10	Part 2: Work Requirements, Section VII B: Particular Specifications, Chapter 7: Material & Workmanship,	Page no 332 of Tender Document	7.2.3.2 Electrical Interface The plinth electrical continuity shall be ensured by the contractor. The Contractor shall supply and weld a connecting M.S. flat welded to the plinth reinforcement. This M.S. flat shall be 160x40x8 mm, pre-drilled with a 6-mm diameter hole, and shall be installed at each plinth / RCC slab unit extremity. These M.S. flats shall be connected by the Contractor with equivalent 35 mm ² bare copper cable to provide electrical continuity between consecutive plinths duly interfacing with the designated electrical contractor.	7.2.3.2 Electrical Interface The Contractor shall supply and weld a connecting M.S. flat welded to the plinth reinforcement. This M.S. flat shall be 160x40x8 mm, pre-drilled with a 6-mm diameter hole, and shall be installed at each plinth / RCC slab unit extremity.
11	Part-3 : Conditions of Contract and Contract Forms Section-IX: Particular Conditions of Contract (PC)	Page no 882 of Tender Document	13.7 d) i. Payment as per the Contract shall be subject to adjustment in accordance with the following Price Variation formula, and other terms given herein, to provide for variation in the market rates of inputs like labour, materials and fuel / energy during the currency of the Contract: $V = VL + VS + VC + VF + VM$	Replace with the following: 13.7 d) i. Payment as per the Contract shall be subject to adjustment in accordance with the following Price Variation formula (for Schedule-C and Schedule-D), and other terms given herein, to provide for variation in the market rates of inputs like labour, materials and fuel / energy during the currency of the Contract: $V = VL + VS + VC + VF + VM$
12	Part 3: Conditions of The Contract and Contract Forms	Page no 924 of Tender Document		Add new Annexures after page 924 /1176 of the tender document: Annexure - IX C Site Mobility and Site Office for Employer Annexure - IX F Approved Laboratory
Enclosure :-		Annexure - A : Replies to Prebid Queries. Annexure - IX C Site Mobility and Site Office for Employer Annexure - IX F Approved Laboratory		
  Executive Director (Procurement), Maharashtra Metro Rail Corporation Limited				

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Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
1	Page no 61, Part-1, Section III 4.2 (a) Specific Construction Experience	A) A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 7 (seven) years, ending on the last date of the month, previous to which the latest bid due date falls.	We request your kind attention towards a fact that all recent electrical tenders of Maha Metro viz OHE - N2- 030/TR-02/2023, Power Supply - N2-031/TR-03/2023 and Nagpur Ph 1 Ballastless tender have asked experience in last 10 (Ten) tears (Refer attached Annexure A). Considering Ballast less track is a specialized work where not much of the companies have experience, we request you to kindly consider the below amendment, so that capable organization like us can also participate: *A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 10 (Ten) years, ending on the last date of the month, previous to which the latest bid due date falls."	Please refer Sr no 1 of Corrigendum-1
2	Page no 62, Part-1, Section III 4.2 (a), Specific construction experience, Note:- 2.	****Other Member (JV) experience: Other member of the JV must have completed work amounting to INR 37 Crores towards *Similar Works in maximum 2 contracts collectively.	1. We want to highlight that the present tender has the At Grade section of Reach 1A in SoW. 2. We also request your kind attention towards a fact that in almost all Ballastless track tender in India from value ranging from 28 Cr to 500 cr, Ballastless qualification is asked by the consortium (as combined) and not from each partner. We are enclosing relevant pages of all recent RFPs (Annexure B) namely: <input type="checkbox"/> MMRDA Line 2B – Value 226 Cr (RFP relevant page attached), locally funded <input type="checkbox"/> Bhopal Metro, Value 219 Cr, NDB Funded <input type="checkbox"/> Indore Metro, Value 235 Cr, locally funded <input type="checkbox"/> Kochi Metro – Value 25 Cr, Length 7 TKM (RFP relevant page attached), locally funded <input type="checkbox"/> Kanpur-Agra Metro, value 500 cr, Length 60 KM (RFP relevant page attached) – EIB funded <input type="checkbox"/> Chennai Metro Ph 2 C4, value 310 cr, length 26 Km (RFP relevant page attached) – NDB funded <input type="checkbox"/> Chennai Metro Ph 2 C3, value 230 Cr, Length approx. 30 Km (RFP relevant page attached) – JICA funded <input type="checkbox"/> Chennai Metro Ph 2 C5, value 194 Cr, Length approx. 20 Km (RFP relevant page attached) – JICA funded 3. We also want to highlight that even in last Ballastless track tender for Nagpur Phase 1 or Pune Phase 1, Ballastless qualification was asked from the consortium (combined). With reference to above justification, we request you to kindly allow below amendment, as this will increase the competition and will allow potential Indian companies like us to participate. ****Other Member (JV) experience: Other member of the JV must have completed work amounting to INR 37 Crores towards *Similar Works Ballastless / Ballasted track installation" in maximum 2 contracts collectively."	Please refer Sr no 2 of Corrigendum-1

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Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
3	Page no 63, Special Notes Table 4	Price Escalation	We feel "price escalation" clause has been inadvertently missed in the EQC. The price escalation clause is as per the ADB norms and are present in all multilateral funded tenders in India. We also highlight the price escalation clause was present in Nagpur Ph 1 BLT tender, Pune Ph 1 BLT tender, CMRL all BLT tender, Bhopal and Indore BLT, MMRDA BLT etc. We are attaching few RFPs for your reference as Annexure C. We request you to kindly add the following clause under special note under EQC table 4: "Price level (annual compounding) assuming 5% inflation for Indian Rupees every year shall be used for calculations of Specific Construction Experience above. Foreign currency component shall be converted into INR equivalent by applying exchange rate as per published by the Reserve Bank of India on the day 28 days. Upon converting into INR, 5% inflation per year (annual compounding) shall be applied for updating to the current price level"	Bid Provisions shall prevail
4	Page no 63 Section III 4.2 (a), Specific Construction Experience. Special Notes:- viii	In case the work is executed for Public Ltd. Company listed in Stock Exchange in India or Abroad, copy of work order, bill of quantities, bill wise details of payment received certified by CA, TDS certificate for all payments received and copy of final/last bill paid by client shall also be submitted.	In case of project done outside of India where fees received in currency (ies) other than INR, we request to kindly clarify how the conversion will be done for evaluation purpose. Kindly provide source and date. We also clarify that RBI forex only given conversion rate for USD, Euro, Yen, Pound. Kindly provide source for other currency also.	It is clarified that, All prices denominated in foreign currencies shall be converted to Indian Rupees (INR) using the exchange rates published by the Reserve Bank of India (RBI) as of the date 28 days prior to the bid submission date (the Base Date). For currencies for which the RBI does not provide exchange rates, the equivalent rates in INR shall be determined using the USD exchange rates published by the central banks of the respective countries.
5	Page - 90 Section-IV: Bidding Forms Form-17, Average Annual Turnover, Note : 2.	All prices in foreign currency will be converted to Indian Rupees using the Exchange Rates for those currencies published by the Reserve Bank of India on the day 28 days (Base date) prior to the date of Bid submission.	We request your attention that Reserve Bank of India only given conversion rate for USD, Euro, Yen, Pound. Kindly provide source for other currency also like for UAE, Malaysia, Qatar etc.	It is clarified that, All prices denominated in foreign currencies shall be converted to Indian Rupees (INR) using the exchange rates published by the Reserve Bank of India (RBI) as of the date 28 days prior to the bid submission date (the Base Date). For currencies for which the RBI does not provide exchange rates, the equivalent rates in INR shall be determined using the USD exchange rates published by the central banks of the respective countries.

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Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
6	Section III 4.2(a), Specific Construction experience, Page 62 of 1176	Other Member (JV) experience: Other member of the JV must have completed work amounting to INR 37 Crores towards *Similar Works in maximum 2 contracts collectively.	We request you to kindly allow below amendment, as this will increase the competition and will allow potential Indian companies like us to participate. ****Other Member (JV) experience: Other member of the JV must have completed work amounting to INR 37 Crores towards *Similar Works Ballastless / Ballasted track installation" in maximum 2 contracts collectively." Justification: The present tender has the At Grade section of Reach 1A in SoW, also in almost all Ballastless track tender in India from value ranging from 28 Cr to 500 cr, Ballastless qualification is asked by the consortium (as combined) and not from each partner example - MMRDA Line 2A, Bhopal, Indore, Chennai Ph 2 (all lines), Ahmedabad, Surat etc. We also want to highlight that even in last Ballastless track tender for Nagpur Phase 1 or Pune Phase 1, Ballastless qualification was asked from the consortium (combined).	Please refer Sr no 2 of Corrigendum-1
7	Section III 4.2(a), Specific Construction experience, Page 61 of 1176	A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 7 (seven) years, ending on the last date of the month, previous to which the latest bid due date falls.	EMRAIL has already executed Delhi Metro and Nagpur Metro Phase 1 Ballastless track work and currently working in Mumbai and Ahmedabad metro track works. Ballast less track is a specialized work where not much of the companies have experience, we request you to kindly consider the below amendment, so that capable organization like us can also participate: "A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 10 (Ten) years, ending on the last date of the month, previous to which the latest bid due date falls." Note: all recent electrical tenders of Maha Metro viz OHE - N2-030/TR-02/2023, Power Supply - N2-031/TR-03/2023 and Nagpur Ph 1 Ballastless tender have asked experience in last 10 (Ten) years	Please refer Sr no 1 of Corrigendum-1
8	EQC, Table 4, Page 63 of 1176 EQC, Table 4, Page 63 of 1176	"price escalation"	We also highlight the price escalation clause was present in Ballastless Track tender in India. We request you to kindly add the following clause under special note under EQC table 4: "Price level (annual compounding) assuming 5% inflation for Indian Rupees every year shall be used for calculations of Specific Construction Experience above. Foreign currency component shall be converted into INR equivalent by applying exchange rate as per published by the Reserve Bank of India on the day 28 days. Upon converting into INR, 5% inflation per year (annual compounding) shall be applied for updating to the current price level"	Bid Provisions shall prevail

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Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
9	Part -I- Bidding Procedure Section-III: Evaluation & Qualification Criteria -3- Special Notes	Similar works" shall imply "Balastless track work for a Standard / Broad gauge passenger Standard / Broad gauge passenger carrying railway system, which may or may not include supply of fastenings and installation of rails and fastenings including welding.	We would like to bring to your kind notice that generally in Indian Railways Ballasted track are envisaged. In view of above, we request to kindly revise the Similar works as under: - Similar works" shall imply "Balastless/Ballasted track work for a Standard / Broad gauge passenger carrying railway system, which may or may not include supply of rails but shall mandatorily include supply of fastenings and installation of rails and fastenings including welding. The above will envisage more competition which will benefit the employer	Bid Provisions shall prevail
10	PART 4: Financial Bid & Bill of Quantities, Schedule-D (BLT 1), page 1151 of 1176, Item 5 And Annexure-III: EXPLANATORY NOTES OF BOQ, Item 5		In PART 4: Financial Bid & Bill of Quantities, Schedule-D (BLT 1): INSTALLATION OF BALLASTLESS TRACK ON MAIN LINE, on page 1151 of 1176, Item 5 is described as: "Payment for all expenditure over and above for plinth heights specified in the tender for extra reinforced concrete." However, in Annexure-III: EXPLANATORY NOTES OF BOQ, Item 5 is described as: "Painting of rail with anti-corrosive bitumen black paint as per IS:9862. Application of Paint: Painting should be done in two coats of 100 microns each using anti-corrosive bituminous black paint conforming to IS:9862, with an interval of 8 hours between coats." These descriptions seem to refer to two entirely different items. We kindly request your clarification regarding this discrepancy.	Please refer Sr no 3 of Corrigendum-1
11	PART 2: WORK REQUIREMENTS, SECTION VII B: PARTICULAR SPECIFICATIONS, CHAPTER 7: MATERIAL & WORKMANSHIP, Page 290/1176 & 328-332/1176.		In PART 2: WORK REQUIREMENTS, SECTION VII B: PARTICULAR SPECIFICATIONS, CHAPTER 7: MATERIAL & WORKMANSHIP, we have noticed discrepancies between the content listed on page 290/1176 and the descriptions provided on pages 328-332/1176. The details are as follows: On page 290/1176, the following structure is outlined: 7 MATERIAL & WORKMANSHIP 7.1 MATERIALS TO BE SUPPLIED BY MAHA METRO 7.2 MATERIALS TO BE SUPPLIED BY CONTRACTOR 7.3 APPROVED MANUFACTURERS However, the descriptions on pages 328-332/1176 do not align with the structure outlined on page 290/1176. We kindly request your clarification on this matter.	Please refer Sr no 4 of Corrigendum-1
12	Section – III: Evaluation & Qualification Criteria, Clause 4.2 (a), (Page: 63)	A) A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 7 (seven) years, ending on the last date of the month, previous to which the latest bid due date falls.	Request for the following amendment: A) A minimum of *Similar completed or **substantially completed Work specified below that have been satisfactorily completed or substantially completed as a prime contractor or joint venture member during last 7 (Seven) years, ending on the last day of the month, previous to which the latest bid due date falls.	Bid Provisions shall prevail
13	Section – III: Evaluation & Qualification Criteria, Special Notes	The term "Similar completed work" means fully completed "Similar works" under a given contract. Partially completed work, even if it fulfills the requirement, will not be considered as "Complete."	Request for the following amendment: The term " Similar completed work or substantially completed work " means fully completed or substantially completed " Similar works" under a given contract. Partially completed work, even if it fulfills the requirement, will not be considered as " Complete." ** substantially completed (at least 80% by value of the contract price) & fulfills the Qualification Criteria.	Bid Provisions shall prevail

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Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
14	Section III 4.2 (a) Note 2 Other Member (JV) Specific Construction Experience	A minimum of *similar completed work specified below that have been satisfactorily completed as a prime contractor or joint venture member during last 7 (seven) years, ending on the last date of the month, previous to which the latest bid due date falls.	For wider participation and healthy competition in bidding of the Tendered I project, it is requested kindly modify the e clause as 4.2(a) Specific Construction k Experience s Note: - 2. ****Other Member (JV) experience: n Other member of the IV must have executed amounting to IN 37 Crores towards *Similar Works in minimum 1 contract collectively."	Please refer Sr no 2 of Corrigendum-1
15	3. Special Notes: (i)	The term "Similar works" shall imply "Balastless track work for a Standard / Broad gauge passenger carrying railway system, which may or may not include supply of rails but shall mandatorily include supply of fastenings and installation of rails and fastenings including welding"	For wider participation and healthy competition in bidding of the Tendered project, it is requested kindly modify the Similar Work Definition: **The Similar work for this contract shall be "Ballast less /Ballasted track work for a Standard / Broad gauge passenger carrying railway system, which may or may not include supply of rails but shall mandatorily include supply of fastenings and installation of rails and fastenings including welding".	Bid Provisions shall prevail
16	3. Special Notes: (ii)	The term "Similar completed work" means fully completed "Similar works" under a given contract. Partially completed work, even if it fulfills the requirement, will not be considered as "Complete."	For wider participation and healthy competition in bidding of the Tendered project, it is requested kindly modify the clause 3. Special notes :- (ii) The term ; "Similar completed work" means Execution as contractor at least One contract with a value of contract that has been successfully or is substantially completed within the last Seven years before the deadline for submission of the bids, and that is similar to the proposed work.	Bid Provisions shall prevail
17	Page no 1155 PART-4: Financial Bid & BOQ Annexure – II Schedule of Stage Payment Bill No.SPM-1 – Item-1,2 & 3	1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report, Submission of bank guarantee (Equivalent to proposed bill amount) and indemnification against the quantity of item supplied under this head: 50% 2. Installation at site: 20% 3. Testing and commissioning of Corridors/Depots where materials have been installed / used: 20% 4. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 10% .	All of these items are major and crucial for timely execution of work and the proposed payment percentage will not be conducive to the required cash flow of the contractor, as it will not even compensate the actual cost of procurement, transportation storage & supply to be incurred by the contractor. Therefore, the bidder respectfully requests a review and modification to the payment terms stipulated in the tender as follows: 1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report, Submission of bank guarantee (Equivalent to proposed bill amount) and indemnification against the quantity of item supplied under this head: 80% 2. Installation at site: 10% 3. Testing an commissioning of Corridors/Depots where materials have been installed / used: 5% 4. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 5%	Please refer Sr no 5 of Corrigendum-1

Name of work : N2-50/T-02/2024 "Design, Supply, Installation, Testing and Commissioning of Ballasted/ Ballast-less track in At Grade section of Reach 1A and elevated viaduct of Reach 2A & Reach 4A of NMRP Phase-2 including supply of 1080Grade HH Rails, track fastenings, 1 in 9 R300 Ballasted/Ballastless turnouts & Derailing switches and other miscellaneous works."

Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
18	Page no 1155 PART-4: Financial Bid & BOQ Annexure – II Schedule of Stage Payment Bill No.SPM-1 – Item-4,5,6 & 7	1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report: 60% 2. Testing and commissioning of Corridors/Depots where materials have been installed / used: 30% 3. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 10%	All of these items are major and crucial for timely execution of work and the proposed payment percentage will not be conducive to the required cash flow of the contractor, as it will not even compensate the actual cost of procurement, transportation storage & supply to be incurred by the contractor. Therefore, the bidder respectfully requests a review and modification to the payment terms stipulated in the tender as follows: 1. Supply of P Way materials at work site in Nagpur in undamaged condition and submission of Inspection Report: 80% 2. Testing and commissioning of Corridors/Depots where materials have been installed / used: 15% 4. Returning of surplus P.Way materials if any to Maha Metro stores as directed by Engineer including handling/re-handling, transportation, stacking with proper accounted: 5%	Please refer Sr no 6 of Corrigendum-1
19	Page no 1157-1158, PART-4: Financial Bid & BOQ Annexure – II Schedule of Stage Payment Bill No. BLT1 Bill No. BLT- Item No.1 & 2	Laying of Plinth & Installation of Track work for plain track in M50 grade concrete with UIC 60 HH Rails with all fittings & fastenings etc complete on viaduct. Laying of RCC slab & installation of turnout in M50 grade concrete with UIC 60 head hardened rails with all fittings and fastenings. 1. On surveying - 5% 2. On approval of drawings with BBS an Method statement :- 5% 3. On Provision of shear connectors, Rail setting, Plinth construction etc. : 40% 4. On completion of rear work to achieve track tolerances as per employers requirements.: 20% 5. On Completion of de-stressing, AT welding, marker boards, cleaning as per employers requirements etc - 20% 6. On Interface requirement of signalling contractor, measurement of final tolerances.: 5% 7. On completion of acceptance tests, markers, testing and commissioning, employers other requirement etc : 5%	The main responsibility entails laying track, with 95% of the expenses already allocated during the installation process. Regrettably, the proposed payment percentage falls short inadequately supporting the projects cash flow. Consequently, the bidder humbly requests a revision to the payment contract as originally outlined. 1. On surveying - 5% 2. On approval of drawings with BBS an Method statement :- 5% 3. On Provision of shear connectors, Rail setting, Plinth construction etc. : 60% 4. On completion of rear work to achieve track tolerances as per employers requirements.: 10% 5. On Completion of de-stressing, AT welding, marker boards, cleaning as per employers requirements etc - 10% 6. On Interface requirement of signalling contractor, measurement of final tolerances.: 5% 7. On completion of acceptance tests, markers, testing and commissioning, employers other requirement etc - 5%	Please refer Sr no 7 of Corrigendum-1

Name of work : N2-50/T-02/2024 "Design, Supply, Installation, Testing and Commissioning of Ballasted/ Ballast-less track in At Grade section of Reach 1A and elevated viaduct of Reach 2A & Reach 4A of NMRP Phase-2 including supply of 1080Grade HH Rails, track fastenings, 1 in 9 R300 Ballasted/Ballastless turnouts & Derailing switches and other miscellaneous works."

Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
20	Page no 1163, PART-4: Financial Bid & BOQ Annexure-III EXPLANATORY NOTES OF BOQ SCHEDULE-B (SPM 1) Supply of Permanent Way materials	<p>Schedule B (SPM1)</p> <p>Item no 1: Supply of 60E1 (UIC60) 1080 Grade HH rails as per IRS-T12-2009 (Class A) for Nagpur metro Phase-II with supply at Nagpur (incl all taxes, insurances and delivery at Nagpur)</p> <p>The contractor has to submit the Bank Guarantee equivalent to 100% of the claimed amount for payment in running bills against supply of rail and the bank guarantee will be returned after the installation of same at the site (Refer. Schedule of payment SPM-1, Item-1).</p> <p>Item 2: Design, Manufacturing & Supply of Standard Gauge 60 E1 (UIC 60) Turnouts and trap switches for ballasted/ballastless track structure with all fittings and fastenings as per the Technical specifications and as per the drawings approved by Engineer. (to be designed for site specific requirements) including transportation, mechanised handling, storing at contractors stock yard and transporting to installation location as per the construction schedule.</p> <p>The contractor has to submit the Bank Guarantee equivalent to 100% of the claimed amount for payment in running bills against supply of turnouts and the bank guarantee will be returned after the installation of same at the site (Refer. Schedule of payment SPM-1, Item-2).</p> <p>Item 3: Fastening system for Ballastless Track</p> <p>The contractor has to submit the Bank Guarantee equivalent to 100% of the claimed amount for payment in running bills against supply of fittings and the bank guarantee will be returned after the installation of same at the site (Refer. Schedule of payment SPM-1, Item-3).</p>	Bidder sincerely requests to make provisions for release of payment against supply of these items on submission of indemnity bond and withdraw the requirement of Bank Guarantee of equivalent amount. It is requested that financial limits of Bank Guarantee and LC (letter of credit) as availed from Banks are often interchangeable and requirement of such avoidable Bank Guarantee will cause huge financial strain on the Contractor. Instead, the supplied material can be sought to be insured till the time it is installed.	Bid Provisions shall prevail
21	Page no 1151, PART-4: Financial Bid & BOQ Schedule-D (BLT 1): INSTALLATION OF BALLASTLESS TRACK IN MAIN LINE	<p>BLT-1 Installation of standard gauge Ballast less Track</p> <p>1.Laying of Plinth with M50 grade of RCC and installation of Track work for plain track with UIC 60E1HH Rails with all fittings and fastenings etc. complete on viaduct as approved</p>	Requirement of M50 grade concrete for constructing the plinth is too high. Even in Metros with severe environments maximum grade of concrete used is M-45. We understand that Nagpur does not fall in severe category. It is requested to review this provision and revise it to M35 grade concrete to the interest of constructability by pumping concrete over viaducts and avoidable extra expenditure too	Please refer Sr no 7 of Corrigendum-1
22	Page no 757-758, Part-2: Work requirements Section-VII-C- Technical Specifications	<p>Personnel</p> <p>The Bidder must demonstrate that it has the personnel for the key positions. Annexure VII 5, Contractors Manpower</p> <p>3. DPM</p> <p>5. Survey In charge</p> <p>8. Sr Site Supervisor</p> <p>9. Site Supervisor</p>	Bidder understands that the stipulated key personnel shall be required when actual installation activities start at the site. Therefore, the bidder respectfully requests that MMRCL stipulate that the key personnel shall be required to be deployed within two weeks of Engineer's instructions as per jointly agreed deployment programme.	Bid Provisions shall prevail

Name of work : N2-50/T-02/2024 “Design, Supply, Installation, Testing and Commissioning of Ballasted/ Ballast-less track in At Grade section of Reach 1A and elevated viaduct of Reach 2A & Reach 4A of NMRP Phase-2 including supply of 1080Grade HH Rails, track fastenings, 1 in 9 R300 Ballasted/Ballastless turnouts & Derailing switches and other miscellaneous works.”

Replies to Prebid Queries

Following modifications in the Bid provision shall apply:

Annexure-A

Sr. No.	Page no./Clause No.	Provision as per RFP / Clause	Query	Remarks
23	Page no 331, Part-2: Work requirements Section-VII B: Particular Specifications	7.1.7 BUFFER STOPS On main lines friction buffer with mechanical impact absorption (non- hydraulic type) shall be provided. The design and specification of friction buffers shall be submitted by the Contractor for Engineer’s approval. The contractor shall interface with the designated Rolling Stock Contractor for the details required for the design of friction buffer stops. However, the following details are given for guidance and the detail specification is given in technical specification – • Weight of train is equal to 192 tonnes for 3-car train set with passengers. • Impact velocity for main line & test track: 25 km/h.	Kindly Confirm the sliding distance of Buffer Stops.	Please refer Sr no 8 of Corrigendum-1

WORK'S REQUIREMENTS**ANNEXURE – IX-C****SITE MOBILITY AND SITE OFFICE FOR EMPLOYER
SITE OFFICE AND FACILITIES FOR THE EMPLOYER/ENGINEER****1) GENERAL**

The Contractor shall provide and maintain for the use of the Employer / Engineer office accommodation, equipment, and communication & drawing facilities throughout the course of the work (including EOT period). The details of the accommodation & other facilities are detailed in following paras. The rate of the Office accommodation and other facilities, as detailed hereunder, is deemed to be included in the quoted cost of work. After successful completion of work, the furniture, equipment (such as printer, plotter, computers, laptops etc.) and software will be the property of the Employer.

Site office accommodation, transport facility, office maintenance and security personnel, as detailed below, shall be provided till 6 months beyond the actual completion period and nothing extra shall be paid on this account.

2) SITE OFFICE

2.1. Accommodation for the Employer/Engineer shall consist of 1 nos. of site office with overall carpet area 250 Sqm to be constructed by the Contractor at a place decided by the Employer, within 30 days from the date of LOA. In case of delay beyond one month in provision of the accommodation either through construction or hire, recovery @ Rs 20,000/- per week will be deducted from running bills.

2.2 The site office should remain open for 24 hours a day and 7 days a week i.e. round the clock.

2.3 Each Site Office will provide for the following rooms/ spaces:

S.No.	Description	Carpet Area (in Sqm.)
1	In-Charge of NMRP with Air conditioning	20
2	For Deputy level officers @ 10 sqm each with air-condition	20
3	Other Officials of NMRP i.e. @5 Sqm each (with Air-conditioning) cubical arrangement	30
4	Project Manager of PMC/GC with Air conditioning	20
5	Other Engineers of GC i.e. @5 Sqm each (with Air-conditioning) cubical arrangement	30
6	Office staff of NMRP/GC @5 sqm each with Air conditioning	20
7	Conference/Visitor room with Air conditioning	30
8	File/Documents/Instrument storage area @ 15 Sq.m each for GC and NMRP	30
9	Open space/Common area/Verandah	30
10	Pantry & Kitchen area	10
11	Toilets	10
	GRAND TOTAL	250

Note: The areas provided above for individual rooms are typical. The minimum total Office area to be provided by the contract is 250 sqm.

2.4 Site Office for Engineer/Employer to be constructed by Contractor. Materials used for the construction of the offices shall be new and of approved quality. Materials shall be chosen such that the buildings when erected shall give good ventilation, heat and sound insulation. Proper and due care must be insured for drainage and water proofing of/from the office structure. All windows and doors should be of good/approved quality to ensure safety, security

etc. of the office.

2.5 All buildings shall be supplied with continuous (24 hour) running potable water to the kitchens and washrooms. The toilets may use raw water for flushing. The Contractor shall also arrange for the constant and hygienic disposal of all effluent, sewage and rubbish from the office buildings.

2.6 All buildings shall be supplied with electricity, AC 240 Voltage 50 Hz that shall be distributed to each room in accordance with the Regulations. Lighting and electrical power points shall be provided in each room. The disposition and location of light and power points will be as directed by the Engineer. 24 hours' power supply is to be arranged by contractor to meet full power load.

Air-conditioners, fans and coolers etc to be provided as decided by the Engineer.

2.7 Firefighting equipment shall be provided in accordance with the local fire services office recommendations.

3. FURNITURE AND OTHER OFFICE EQUIPMENT AT SITE OFFICES:

The Contractor shall supply and maintain the following good/approved quality new furniture and equipment to the Employer/Engineer's offices within 60 days of the date of LOA.

Description of Item	Nos.
Conference table (4000mm x3000mm)	1
Conference chairs	10
Glass-fronted lockable bookcase 7 shelves	6
3000mm x 900mm double pedestal desk	5
1200mm x 900mm single pedestal desks	6
Swivel office chair with head rest and armrest	6
Swivel office chair without armrests	6
Typist chair	4
Visitors chair	4
4-drawer filing cabinet	10
Steel lockable cupboard 6ft high with internal shelves	10
Heavy Duty Paper Shredders	1
A3/A4 Size spiral binding machine	1
White board (4X3 foot) with duster and markers	2 sets
Telephone switchboard connected to 2 external Lines at each office with STD facility and with independent Internal communication Facilities with conference facilities	10 phones
First aid kits for up to 20 persons	2
Safety helmets	The contractor shall issue a new set of safety items 10 for GC & 10 for client (which includes a safety helmet, day-glow safety waistcoat, and approved safety shoes) every six months.
Safety Shoes	
Day-glow safety waistcoat	
Raincoat and Umbrella	4 (Foldable) and 4 (Full size) per year
Refrigerator (Min. 190L)	2
Shoe shining and cleaning machine	2
Microwave Oven (Min. 25L)	1
5 L kettles	1
2 L kettle	1
Potable water dispenser (incl. water purifier) with hot/cold Taps	2
Cups and plates (bone china) and water glasses	24 each six months
Fire extinguishers - (As required confirming to the stipulations of Local authorities).	As per norms
Power Backup (Silent DG set/ Inverter) of minimum power of 30KVA	1

Note: The above requirement is total requirement and includes all the site offices. In case of failure to provide the above-mentioned equipment within 60 days, recovery @ Rs 10,000/- per week or part thereof will done from running bill.

4. TRANSPORT

4.1 The Contractor shall provide 4 (Four) numbers of Innova / Scorpio model SUV and 2 (Two) numbers of Dezire/Sedan model with commercial permit having AC facility for the use of the Employer within 30 days from the date of commencement of the work. The Contractor will bear all expenses connected with the operation and the maintenance of this vehicle, including driver's wages, overtime and other benefits, cost of the fuel, lubricant, repairs and maintenance, third party insurance, any other related expenses etc. to the satisfaction of the Engineer. The vehicle shall be replaced with a new vehicle during breakdown time, failing which the Employer will hire the vehicle at the risk and cost of the Contractor.

4.2 ROAD TRANSPORT

- a) The vehicles shall not be more than two years old (at the time of deployment) and should have taxi permit and delivered and maintained by the Contractor in good roadworthy condition including daily cleaning.
- b) The Contractor shall employ and make available competent drivers fully licensed to operate the vehicles as and when required by the Employer. The Contractor shall replace drivers at the request of the Engineer/Employer. Alternate arrangement of drivers should be ensured by the contractor in case of emergency or excessive working hours due to demands of work.
- c) The vehicles shall be licensed and insured for use on the public highway and shall have comprehensive insurance cover for any qualified driver authorised by the Engineer/ Employer together with any authorised passengers and the carriage of goods or samples. All the relevant and valid documents of the vehicle should any time be available with the driver and can be asked to show by the Employer anytime.
- d) The Contractor shall provide fuel, oil for running of each vehicle for 4000 kms monthly and ensure maintenance in conformity with the vehicle manufacturer's recommendations and all relevant toll and parking charges incurred in connection with the Works. The vehicle shall be provided for 12 hours shift (day or night) as required by the Employer.
- e) A suitable replacement shall be provided by the contractor for vehicle out of service for more than 24 hours. If the contractor at any time fails to provide vehicles) or substitute vehicle(s) as specified, an amount of Rs.3000 per day for each vehicle (that the Contractor failed to provide) will be recovered from the running bill of Contractor.
- f) If, for any reason, Maha-Metro decides not to avail for Vehicle/Transport facility, an amount of Rs. 75,000/- per month for each vehicle (Innova or Similar) , Rs. 60,000/- per month for each vehicle (Scorpio/Ertiga or Similar) and Rs .45,000/- per month for each vehicle (Dezire or Similar Sedan) shall be deducted from the Contractor's running bill.

4.3 NUMBER OF VEHICLE

The Contractor shall provide the following type of vehicles of as per requirement indicated by the Employer/Engineer within one month of date of commencement of work.

Type	Numbers
Innova or similar with AC	2
Scorpio /Ertiga or Similar with AC	2
Dezire/Sedan with AC	2

5. OFFICE MAINTENANCE AND SECURITY

5.1 The contractor is required to maintain each site offices and provide the following, but

not limited to:

- i) Pay all electricity charges.
- ii) Pay all water charges.
- iii) Carry out necessary repairs to office and equipment as and when required.
- iv) Day- to-day cleaning and maintenance and watch & ward etc.

5.2 The contractor shall provide within 60 days from the Date of Commencement of work the following personnel as required for watch and ward and running of site office.

- i) Watchmen / Security: (24 hours a day and 7 days a week i.e. round the clock)
- ii) Office Assistant/office boy/document controller: (2 Personnel's)
- iii) Office maintenance Personnel: (2 men in day shift)

Note: In case of delay beyond 60 days or absence of above personnel for more than 3 days, recovery from running bill @ Rs 6,000/- per personnel Per week or part thereof will be imposed.

6. EQUIPMENT FOR THE USE OF THE EMPLOYER/ENGINEER

The Contractor shall provide Brand new and unpacked equipment and licenced software as listed below and maintain them for the exclusive use of the Employer and the Engineer. The Contractor shall provide and maintain the following equipment for the use of the Engineer and the Employer within one month from the date of commencement of the works. The equipment and software shall be the property of the Employer.

- a. Two (02) no. of laptop, i7 (13th Generation), 16 GB DDR4/5 RAM, 1 TB SSD, 4GB Graphics Card, Genuine Windows 11, Autocad 2024, Adobe PDF reader with editor, MS office 2023, Genuine Anti-Virus, In-built or external Wifi device, wireless keyboard and mouse and 01 no. external monitor of 27 inch FHD 1080p built-in speakers.
- b. Two (02) nos. of laptop, i5 (13th Generation), 8 GB DDR RAM, 500 GB SSD, Genuine Windows 11, MS office 2023, Genuine Anti-Virus, In-built or external Wifi device, wireless keyboard and mouse.
- c. Two (02) no. All-in-One desktop computer with 27"LED monitor i5 (13th Generation), 16 GB DDR RAM, 500 GB SSD + 1 TB HDD, Genuine Windows 11, MS office 2023, Genuine Anti-Virus, In-built or external Wifi device, wireless keyboard and mouse with UPS
- d. 6 nos. of pen drives of 32 GB capacity , 2 nos. of Portable External Hard disk of 1 TB capacity each and 1 nos. of Portable SSD disk of 1 TB capacity.
- e. Printers cum Scanner - 2 nos. (A3 size) with all cartridge

The A3 size colour printer shall be all in one (Canon image runner C3020 or similar), having features of Scanner, copier and Printer, with Wi-Fi enabled in them. It will be responsibility of contractor to keep the printer in running/working condition throughout contract period.

- f. LARGE FORMAT PLOTTER – 01 No. (Canon image PROGRAF TX-5410 MFP Z36 or equivalent model) or providing printing facility upto A0 size (colour print) to the Employer/Engineer at the cost of contractor.
- g. Projector, High Brightness 4000 ANSI Lumens DLP, 20000:1 High Contrast Ratio, Dual HDMI, USB-A, Keystone Correction, Upto 15000 Hrs Lamp Life, 10W Speaker with Adjustable Projector Ceiling and Wall Mount Kit Bracket Stand with Tilt Option and Motorised Projector Screen, Size:- 8 Ft.(Width) x 6 Ft.(Height), in 4:3 Aspect Ratio, 120 Inches Diagonal Length with 10m length of HDMI and Power cable.
- h. Application Software (The license's validity will be up to DLP) with each computer/laptop, unless otherwise specified:
 - i. Windows 11 or latest version with OEM-for all computers.
 - ii. Microsoft Office 2023 or latest release with OEM -for all computers.
 - iii. AUTOCAD 24 or Latest Version with OEM - For two Computer
 - iv. M S Project/ P6 Primavera - Latest Version on OEM - For one Computer

- v. Adobe PDF reader (licensed version), editor and Converter/Professional-for one computer.
- vi. PDF reader – for all computers.
- vii. Anti-Virus Latest Version-for all computers.
- i. Surge Protection Devices (one for each computer and printer as given above or as suitable to protect all equipment from voltage fluctuation).
- j. UPS system with sufficient power backup (with minimum backup time of 30 minute) to meet the sufficient power load in case of power disruption.
- k. Power supply for the systems is to be AC 240 volts, 50 Hz from normal building wiring circuit mains, power regulator, stabilizer or transformer should be supplied by the Contractor for the computer systems such that the systems can function efficiently.
- l. The contractor has to provide Internet (Wi-Fi) connection of minimum 300mbps for the use of Employer/Engineer to each site office.
- m. The contractor shall maintain, repair, or replace any defective computer, equipment, or instrument within 7 days of reporting such a defect or malfunction (in case of failure to repair/replace within time limit, recovery @ Rs 500/- per equipment per week or part thereof will be done from RA bill, and the computers, equipment, or instrument shall be maintained, repaired, or replaced until the defect liability period is completed as per the recommendation of the employer or engineer. The contractor shall hand over all of the above-mentioned items (a) to (h) and clause-3 (**FURNITURE AND OTHER OFFICE EQUIPMENT AT SITE OFFICES**) to the employer/engineer in good and working condition with proper accountability before applying for release of performance security/DLP completion certificate.

Note: In case of failure to provide the equipment within 30 days of LOA, recovery @ Rs 5000/- per equipment per week or part thereof will be imposed.

7. DOCUMENTATION

7.1 A complete set of documentation will be supplied with each System. The documentation should be self-tutorial in nature and be readily understood by non-computer personnel.

7.2 The following manuals will be supplied with the system: a. Manual on how to operate the equipment; and b. Manual on how to use the facilities and software provided by the supplier. (Including languages and utilities)

8. AUTO CAD OPERATOR-

The contractor shall provide one Auto CAD operator with minimum 02 years experience for the office of Employer/Engineer.

Note: In case of failure to provide the AUTOCAD operator within one month penalty/recovery @8000 per person per week or part thereof will be imposed.

9. STATIONERY-

The contractor has to provide adequate quantities of stationeries (as per table attached but not limited to) every month for exclusive use of Engineer and Employer for Officeworks till DLP period.

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY
1	JK COPIER - PAPER A4 RIM	NOS	5
2	JK COPIER - PAPER A3 RIM	NOS	2
3	PLASTIC POCKET FOLDER	NOS	4
4	STRIPS FILES	NOS	5
5	FLAT FILES	NOS	10
6	BOX FILE	NOS	5
7	STICKY NOTES	PACK	4
8	PUNCHLESS CLIP FILE	NOS	2
9	WHITENER	NOS	5
10	PERMANENT MARKER BLACK, WHITE & RED	NOS	2 EACH
11	HIGHLIGHTER 4 COLORS	PACK	1
12	ENVELOPE A4 & A3 SIZE	PACK	1 EACH

13	U-PIN BOX	BOX	1
14	PAPER/BINDING CLIPS SMALL, MEDIUM & BIG	BOX	1 EACH
15	REGISTERS LONG SIZE NOTEBOOK – 200/250 PAGES	NOS	4
16	NOTEPAD	NOS	10
17	POCKET DIARY	NOS	10
18	SKETCH PENS	PACK	1
19	PILOT PENS BLACK, BLUE, GREEN & RED	NOS	2 EACH
20	PAPER SEPARATER	PACK	2
21	PLASTIC L – FOLDER	PACK	1

10. NOTE -

If delay in completion of work is on account not attributable to contractor additional cost incurred for site accommodation, transport facility, office maintenance and security personnel for such extended period will be paid on actual basis for any facilities which are required to be extended.

Not Applicable

Not Applicable

Annexure –IX-F: List of approved Laboratories

List of approved Laboratories

1. Indian Institute of Technology (IITs),
2. National Institute of Technology (NITs),
3. Government Engineering Colleges,
4. NABL accredited laboratories, for the relevant tests for which NABL accreditation is obtained.

Note : The contractor shall submit the details of NABL accredited laboratories proposed for the tests with all the relevant details of NABL accreditation and types of test to be conducted, for prior approval of Engineer in Charge.