

Corrigendum No. V: Part-B

Date:- 21.07.16

Addendum

Tender Notice No. N1C-05/2016. (NCB), Dt.14.05.2016 Date of Pre-Bid Meeting: - 10th June 2016

Tender No (As uploaded in the e-tender portal) – 46

Name of work: Construction of METRO Train Depot at MIHAN (North-South Corridor) & HINGNA (East-West Corridor) including Civil & E&M Works for Nagpur Metro Rail Project

SN	Part No.	Section	Clause ref.	Existing description	Replaced with
1.	Part-4	Financial Bid & Bill Of Quantities (BOQ)	All Clauses.	Part-4 Financial Bid & Bill Of Quantities (BOQ)	Please Refer Revised BOQ (Corrigendum V: Part-E)
2.	Part-1: Bidding Procedure Tool Kit for E-Tender Portal	Section-II:	Annexure-II-A	In this tender Bid Security is to be paid in Two Parts, Part- Rs. 4500000/ by NEFT/RTGS Payment via net banking facility provided by bidder's bank & Part-B Rs. 17500000/ In the form of Bank Guarantee. Scan copy BG is to be attached.	In this tender Bid Security is to be paid in Two Parts, Part- Rs. 2850000/ by NEFT/RTGS Payment via net banking facility provided by bidder's bank & Part-BRs. 11400000/ In the form of Bank Guarantee. Scan copy BG is to be attached.
3.	Part-1	NIT		Tender Security The total security amount shall be a total of INR 16 million submitted	Tender Security The total security amount shall be a total of INR 14.25 million submitted

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				as below: (a) INR 3.5 Million by RTGS/NEFT/Credit Card Online as per Procedure in E-tender Portal. (b) INR 12.50 million in form of Bank Guarantee , as per procedure given in bid documents.	as below: (a) INR 2.85 Million by RTGS/NEFT/Credit Card Online as per Procedure in E-tender Portal. (b) INR 11.40 million in form of Bank Guarantee , as per procedure given in bid documents.
4.	Part-1	Section III-Evaluation & Qualification Criteria	4.2 (a)	Evaluation & Qualification Criteria	Please refer Revised Evaluation & Qualification Criteria (Corrigendum V: Part-C)
5.	Part-2	Annexure VII B Tender drawings including GADs.	Preliminary drawings.	Preliminary drawings attached as Corrigendum V: Part-D.
6.	Part-2	Section VIIB	7.1.6.1	Type of Conduit All conduits for wiring system irrespective of surface or concealed shall be of G.I. Generally concealed electrical wiring installation shall be in GI conduits and surface wiring also in G.I. conduits.	Type of Conduit All conduits for wiring system irrespective of surface or concealed shall be of G.I. except where specifically described in a particular item. Generally concealed electrical wiring installation shall be in GI conduits and surface wiring also in G.I. conduits.
7.	Part-2	Section VII A, General Specifications	2.1.6	Though Alignment plans (both vertical and horizontal) and obligatory pier locations are provided by the Employer to the Contractor. Utility identification at all the foundation locations will be done by the Contractor before starting	Utility identification at all the foundation locations will be done by the Contractor before starting piling/excavation and in case utility(s) is encountered or obligatory requirements of Local Authorities are to be met out, the Contractor

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				piling/excavation and in case utility(s) is encountered or obligatory requirements of Local Authorities are to be met out, the Contractor would modify the span configuration at such locations to save the utility(s) or to meet out the obligatory requirements within the accepted price	would modify the configuration at such locations to save the utility(s) or to meet out the obligatory requirements within the accepted price.
8.	Part-2	Section VII	2.18	Contractor will maintain all the systems in a comprehensive manner including all kinds of spares and consumables without any extra cost during Defect Liability period of 2 years from the date of taking over".	Contractor will maintain all the systems in a comprehensive manner including all kinds of spares and consumables without any extra cost during Defect Liability period of 2 years from the date of taking over". "24 months from the date of Commercial Operations Date (COD) of Depot. During the Defects Liability Period the Contractor shall rectify/ replace the defective works without claiming any cost for the defective works fulfill his obligations during the Defects Liability Period as laid down in GC and Works Requirements"
	Part-3	Section IX	6	"12 months from the date of Commercial Operations Date (COD) of Depot. During the Defects Liability Period the Contractor shall rectify/ replace the defective works without claiming any cost for the defective works fulfill his obligations during the Defects Liability Period as laid down in GC and Works Requirements"	
9.	Part-1	Section-IV: Bidding Form	B.4, Form 4.4 Bidder's Technical Submissions	A general description of the complete construction, installation, testing and commissioning of works for stations and viaduct portions for this Contract with brief technical description of each system as indicated in the following sections.	A general description of the complete construction, installation, testing and Commissioning of works for Depots for this Contract with brief technical description of each system as indicated in the following sections.
10.	Part-2	Section VII A General Specifications	2.1	Schedule A, B, C, D, E, F and G (Schedules of BOQ) described in clause 2.9 of Employer's Requirements- Functional	Schedule A, B, C, D, E, F, G & H (Schedules of BOQ) described in clause 2.9 of Employer's Requirements- Functional
11.	Part-2	Section VII	2.1.3, SN (iv)	Lift shafts and escalators pits and other fixtures in	Lift shafts and escalators pits and other fixtures in

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		A General Specifications		stations subject to coordination with respective system contractors including water proofing of lift pit/escalator pits.	depots subject to coordination with respective system contractors including water proofing of lift pit/escalator pits.
12.	Part-2	Section VII A General Specifications	2.1.3, SN (viii)	Underground water tank and pump house, D.G. room, bore wells 2 nos at each station and connection from bore wells to the underground water tanks, water proofing in the underground structure , terrace and Overhead Tanks.	Underground water tank and pump house, D.G. room, bore wells 2 nos at each depots and connection from bore wells to the underground water tanks, water proofing in the underground structure , terrace and Overhead Tanks.
13.	Part-2	Section VII A General Specifications	2.1.6, SN (v)	The platform length of 77.5m and station length of 140m shown in tender drawing. No claim on account of change in length of platform & station limit will be entertained.	Deleted.
14.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	2.1.3	The Station Load shall be classified into three categories:	The Station/Depot Load shall be classified into three categories:
15.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	2.2.16	An integrated, comprehensive Data logger System with microprocessor/PC based configuration shall be provided in the Station Control Room to enable monitoring of all parameters like Voltage, Frequency, Power Factor, KVARh, KW, KWh, Power Outages etc.	An integrated, comprehensive Data logger System with microprocessor/PC based configuration shall be provided in the Depot Control Room to enable monitoring of all parameters like Voltage, Frequency, Power Factor, KVARh, KW, KWh, Power Outages etc.
16.	Part-2	Section VII-B: Particular Specification	8.3.8	The annunciation alarm shall be repeated to the station control room through Building Management System (BMS).	The annunciation alarm shall be repeated to the Depot control room through Building Management System (BMS).

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		n – Electrical & HVAC			
17.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	9.4.2	UPS shall be provided with RS 485 compatibility for remote monitoring and to extend alarm & status indications & annunciation and metering to remote panels, station control center and Operation control center.	UPS shall be provided with RS 485 compatibility for remote monitoring and to extend alarm & status indications & annunciation and metering to remote panels, Depot control center and Operation control center.
18.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	Parameters for control and monitoring for the various equipment	Tube well pumps at station.	Tube well pumps at station/ Depots
				Raw water pumps at station.	Raw water pumps at station/ Depots
				Domestic water pumps at station	Domestic water pumps at station/ Depots
19.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	10.1	This Specification describes the minimum standards of the Building Management System (BMS) for elevated stations of NMRCL network.	This Specification describes the minimum standards of the Building Management System (BMS) for Depots of NMRCL network.
20.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	10.6.5	The Contractor shall establish the I/O requirements and provide the most economic configuration of PLCs based upon cost balances between unit modularity and cabling costs for individual stations.	The Contractor shall establish the I/O requirements and provide the most economic configuration of PLCs based upon cost balances between unit modularity and cabling costs for individual stations/ Depots
21.	Part-2	Section VII-B: Particular Specification	10.8.1	The output information should be grouped in accordance with the make-up of the 'services' systems in the station building rather	The output information should be grouped in accordance with the make-up of the 'services' systems in the station/ Depot building

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		n – Electrical & HVAC		than the location of the field hardware.	rather than the location of the field hardware.
22.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	10.6.1	The workstation pc shall be installed in the station control room of each station. this shall be a separate pc. the OCC work station shall be provided with similar pc or higher pc/server, as per the requirement.	The workstation pc shall be installed in the Depot control room of each Depot . This shall be a separate pc. The OCC work station shall be provided with similar pc or higher pc/server, as per the requirement.
23.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	10.9.1	The contractor shall prepare in clear and logical form documents describing the functions transmitted and the operations carried out at the stations control room workstation and that at OCC.	The contractor shall prepare in clear and logical form documents describing the functions transmitted and the operations carried out at the stations/ Depot control room workstation and that at OCC .
24.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	10.9.6	Alarms will flash on the present screen and be audible to the station controller, it will be messaged to the mobile phone of the station controller and other concerned NMRC authorities, as decided by the Employer.	Alarms will flash on the present screen and be audible to the station / Depot controller, it will be messaged to the mobile phone of the station/ Depot controller and other concerned NMRC authorities, as decided by the Employer.
25.	Part-2	Section VII-B: Particular Specification – Electrical & HVAC	10.10.1	This test shall be arranged to test the integration of the BMS server at OCC and all workstations of different stations.	This test shall be arranged to test the integration of the BMS server at OCC and all workstations of different Depots .
26.	Part-2	Section VII-B: Particular Specification	10.10.5	Engineer/ Manager training should concentrate on making them familiar with the capabilities of the system so they he can take full	Engineer/ Manager training should concentrate on making them familiar with the capabilities of the system so they he can take full

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		n – Electrical & HVAC		advantage of the BMS in running station building.	advantage of the BMS in running station/ Depot building.
27.	Part-2	Section VII-B: Particular Specification n – Electrical & HVAC	11.7.1.2	The motor shall be Flameproof / Non –Flameproof type & totally enclosed type, with capacitor start and run type motor, rated for continuous duty and rugged in construction.	The motor shall be Flameproof (Fire rated fan for 250 °C, 120 minute)type & totally enclosed type, with capacitor start and run type motor, rated for continuous duty and rugged in construction.
28.			Annexure IX A	Vendor List For MEP Works:	Vendor List For MEP Works: All materials and products shall conform to the relevant standards/specifications of IS code, BS Code etc. and shall be of approved make and design. A list of manufacturers / vendors is given herein below for guidance. The approval of a manufacturer/vendor shall be given only after review of the sample /specimen by the Engineer. The complete system and installation shall also be in conformity with the – “Applicable Codes, Standards and Publications”. List of approved makes for products and materials is given below. Other equivalent manufacturers may be considered with prior approval.
29.	Part-3	Section IX Particular Conditions of Contract	1.5	The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the	The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the

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				<p>priority of the documents shall be in accordance with the following sequence:</p> <p>(a) the Contract Agreement (if any), (b) the Letter of Acceptance, (c) the Particular Conditions – Part A, (d) the Particular Conditions – Part B (e) the General Conditions; and (f) the Specification, (g) the Drawings, (h) the Schedules and any other reference documents forming part of the Contract. If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.</p>	<p>following sequence:</p> <p>(a) the Contract Agreement (if any), (b) the Letter of Acceptance (c) Letter of Bid (d) the Particular Conditions – Part A, (e) the Particular Conditions – Part B (f) the General Conditions; and (g) Bill of Quantities, (h) the Specification, (i) the Drawings, (j) the Schedules and any other reference documents forming part of the Contract."</p>
30.	NIT	Date & Time of submission of Tender		Online submission up till 16.00 Hrs. on 01.07.2016 in NMRCL's e-tender portal.	Online submission up till 16.00 Hrs. on 13.08.2016 in NMRCL's e-tender portal.
31.	NIT	Date & Time of Opening of Tender		On 04.07.2016 at 16.00 Hours or as decided by the authority at "Metro House", 28/2, Anand Nagar, Civil lines, Nagpur 440001	On 16.08.2016 at 16.00 Hours or as decided by the authority at "Metro House", 28/2, Anand Nagar, Civil lines, Nagpur 440001
32.	BID	Section 2	ITB 4.1	Maximum number of members in the JV shall be: 3	Please refer Revised Evaluation of qualification

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	data sheet			(Three) Lead member should not have less than 40% participation and other members shall have minimum 20% participation in the proposed JV / Consortium for this work.	Criteria corrigendum V: Part-C
33.	BID data sheet	Section 2	ITB 19.1	A <i>Bid Security</i> is required in two parts (In Indian Rupees or equivalent USD): (a) INR 3.50 Million (Three Point Five Million Only) as cash by RTGS/ NEFT/ Credit Card as per procedure given e-tender portal. (b) INR 12.50 Million (Twelve Point Five Million Only)	A <i>Bid Security</i> is required in two parts (In Indian Rupees or equivalent USD): (a) INR 2.85 Million (Two Point Sixty Five Million Only) as cash by RTGS/ NEFT/ Credit Card as per procedure given e-tender portal. (b) INR 11.40 Million (Ten Point Sixty Million Only)
34	Part-2	Section VII-A: - General Specifications	2.1.9.6	Interface Works	Interface work between with Machinery and Plant Contractor corrigendum-V: Part-F

**General Manager/Procurement,
Nagpur Metro Rail Corporation Limited.**