

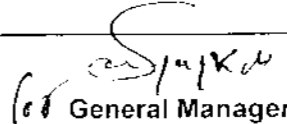
Corrigendum - VIII-A

Date : 06.02.2017

Name of work: DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING, COMMISSIONING OF MACHINERY AND PLANT FOR 02 (TWO) NUMBERS OF ROLLING STOCK DEPOTS AT MIHAN AND HINGNA OF NAGPUR METRO RAIL PROJECT AND TRAINING OF PERSONNEL.

Tender No : ICB N1M&P-1/2016.

| SN | Part No | section No. | Clause ref. | Description in previous document | Description in revised document |
|----|---------|-------------------------------------|--|---|---|
| 1 | 2 | VII-B | 9.5.1 , Diesel engine | The Diesel Engine will have a fuel tank with enough capacity to provide 8 hours of continuous operation. The engine starter will be electric, powered by batteries. The Diesel engine will comply at least with the Euro 4 exhaust emissions standard. | The Diesel Engine will have a fuel tank with enough capacity to provide 8 hours of continuous operation. The engine starter will be electric, powered by batteries. The diesel engine will comply atleast with the Euro 3 or equivalent exhaust emission standard. |
| 2 | 1 | | Filter of Applicant Checklist, Notes Sr. No. - 3 | A "YES" answer to any question 1, 2, 3, 4, 5, 6, 9 will disqualify the Applicant. | A "YES" answer to any question 1, 2, 3, 4, 5, 9 will disqualify the Applicant. |
| | 1 | | Filter of Applicant Checklist, Notes Sr. No. - 3 | A "NO" answer to any question 7, 8 will disqualify the Applicant | A "NO" answer to any question 6,7, 8 will disqualify the Applicant |
| 4 | 2 | VII-B | Chapter 9 | Additional Para. | A separate solution for instrumentation part, consisting of a coupled trolley (with compatible braking arrangement), for mounting / carrying separate Track Geopemtry Mesuring System and Ultrasonic Measuring Device, will also be considered as an alternate to Integrated System. |
| 5 | 2 | 9.2.2 (A) & (B) and 9.5.2 (A) & (B) | Chapter-9 (A) & (B) | 9.2.2.(A): The four axles of the vehicle will be powered with hydrostatic transmission and a main diesel engine. 9.2.2.(B): The two axles of the vehicle will be powered with hydrostatic transmission and a main diesel engine 9.5.2.(A):The vehicle will have the diesel engine power relayed to the four axles, by means of a hydrostatic transmission. 9.5.2.(B):The vehicle will have the diesel engine power relayed to the two axles, by means of a hydrostatic transmission. | 9.2.2.(A): The four axles of the vehicle will be powered with hydrostatic/hydraulic-mechanical transmission and a main diesel engine. 9.2.2.(B): The two axles of the vehicle will be powered with hydrostatic/hydraulic-mechanical transmission and a main diesel engine 9.5.2.(A):The vehicle will have the diesel engine power relayed to the four axles, by means of a hydrostatic/hydraulic-mechanical transmission. 9.5.2.(B):The vehicle will have the diesel engine power relayed to the two axles, by means of a hydrostatic/hydraulic-mechanical transmission. |
| 6 | 2 | VII-B | Multi purpose working stand , General | The Multi Purpose Working Stand (MPWS) should be designed to enable maintenance operations on the roof, on the sides and on Under Floor components of rail cars. It consists of • Roof Working Platform (RWP) with Train Driver Catwalk (TDC) • Elevated Track | The Multi Purpose Working Stand (MPWS) should be designed to enable maintenance operations on the roof, on the sides and on Under Floor components of rail cars. It consists of Roof Working Platform (RWP) with Train Driver Catwalk (TDC), retractable OCS and other accessories mentioned in technical data . |
| 7 | 2 | VII-B | 11.4, Description of Key Exchange System | When the drawers are in the "retracted" position, the grounding key of the OCS is released and can be returned to the control cabinet of OCS. The retractable OCS will be provided by other contractor. | When the drawers are in the "retracted" position, the grounding key of the OCS is released and can be returned to the control cabinet of OCS. |


 General Manager,
 (Procurement),MMRCL



Corrigendum - VIII-B

Date : 06.02.2017

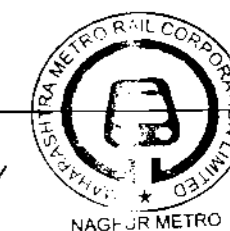
Name of work: DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING, COMMISSIONING OF MACHINERY AND PLANT FOR 02 (TWO) NUMBERS OF ROLLING STOCK DEPOTS AT MIHAN AND HINGNA OF NAGPUR METRO RAIL PROJECT AND TRAINING OF PERSONNEL.

Tender No : ICB N1M&P-1/2016.

Pre-bid Queries and Reply

| SN | Vol No. | Clause no. | Bid Condition | Bidder's Queries | Response from NMRCL |
|----|------------------|---|--|--|---|
| 1 | Part 2 - Revised | Section-VII-B, Technical Specification of NMRCL M&P-003, Chapter-4, UFLS, Clause No. 4.4.1 | Each Bogie Hoist shall be raised or lowered via 4 independent lifting columns. Lifting Columns shall consist of a Spindle Lifting element, a lifting beam, guiding box, one automatic following gap | According to older Part-2 Specification, each Bogie Hoist shall consist of either four lifting spindle element switch are always operated together or single lifting spindle of proven design. This been changed in revised Part-2 specification. SIEMENS view is that there are few vendors who can provide best proven technology of single spindle system instead of 4 spindle system. Single spindle has following advantage compared to four spindle system mentioned below: (1) Minor Maintenance Cost, (2) Includes Minor Assemblies, (3) Minor Attrition, (4) Minor effort for Civil and Electrical Works and (5) Cost saving and higher safety standard. Addition to this, Single Column spindle system has been supplied to DMRC Depot, Kochi Metro, Yamuna Depot, Lucknow Metro and Greater Noida Metro Depot and performance of this advance technology is good well accepted. SIEMENS request NMRCL to add option of single spindle and four spindle system both. | No Change. Tender Conditions Prevail. |
| 2 | Part 2 - Revised | section-VIIB Technical Specification of Catenary Maintenance Vehicle (8 Wheelers) 9.5.1 Diesel Engine | The Diesel Engine will comply at least with Euro 4 exhaust emissions standard | Request to add "Applicable Standard apply for Railway Vehicle Emission Level". We wish to inform that EURO 4 emission does not apply for Railway Vehicles. The equipment standard for Railways is TIER III A. | Refer Corrigendum VIII A. |
| 3 | Part 2 - Revised | section-VIIB, Technical Specifications 68_corrigenum_II_D Depot Drawing of Hingna and Mihan Workshop Layout | Depot Drawing of Hingna and Mihan | As we understand Structural Drawing of Mihan and Hingna is not same. Distance between column and roof beam for Mihan is at equi-distance whereas in Hingna depot distance as not at equi-distance. Please confirm NMRCL views on this. | Distance between column and roof beam will not affect the design since the roof working platform (RWP) shall be suspended from roof slab. |
| 4 | Part 2 - Revised | section-VIIB, Technical Specifications 1/16/2017 Multi Purpose Working Stand 11.1 and 11.2.1 | Table: Technical Data Roof Working Platform (RWP) with Train Drive Catwalk (TDC) - Supporting Structure | The RWP/TDC is supported by wled steel construction hinged from the existing supporting structure of the building via head plates bolted to the structure beams. Holes into structure beams of building will be made during installation. Please inform height of existing support structure from Top of Rail. This information is very much important for structural calculation. | The steel structure for suspending roof working platform (RWP) shall be mounted on roof slab. The height of the roof slab is already mentioned in uploaded drawing. |
| 5 | Vol.1 Page 152 | A. Filter Of Applicants – Checklist | Sr. No. 6 : Has the applicant certified that no agent / middleman has been or will be engaged or any agency commission been or will be paid? In Notes Sr.No.3: A "YES" answer to any question 1,2,3,4,5,6,9 will disqualify the Applicant. | Both the points are contradictory. The answer has to be YES. Hence kindly remove SN 6 from the Notes Sr. No. 3. | Refer Corrigendum VIII A. |
| 6 | Vol.2 Page 192 | 9.5 & 9.5.1 | Drive Diesel Engine – The Diesel engine will comply at least with the Euro 4 exhaust emissions standard. | Standard Euro 4 is not applicable for Catenary Kindly permit us to offer suitable applicable standard for the same. | Refer Corrigendum VIII A. |
| 7 | Part 2 - Revised | section-VIIB, Technical Specifications | Instrumented Catenary Maintenance Vehicle with Train Shunting Capability - 8 Wheeler & 4 Wheeler | Due to the fact that the specification defines requirement of the Track Geometry Inspection, Ultra-Sonic Inspection and RRE along with the CMV, it is difficult to comply with the axle load requirement as defined in the SOD, due to the weight and volume of these additional requirements on CMV. Hence we may be allowed to offer separate solutions for these additional requirements instead of integrated system. | Refer Corrigendum VIII A. |

Singh
20/1/17



| SN | Vol No. | Clause no. | Bid Condition | Bidder's Queries | Response from NMRCL |
|----|---|--|--|---|---|
| 8 | Vol.2 Page 190 & 207 and Vol.2 Page 192 & 209 | 9.2.2 (A) & (B) and 9.5.2 (A) & (B) | Vehicle Equipment – The vehicle and a main diesel engine. Transmission – The vehicle and faster arrival at the working place. | Due to the fact that the requirements for low speed operation running and high speed operation condition simultaneously, the hydrostatic transmission system is long in design development, key hydraulic component design and purchase period, it is suggested to adopt hydraulic-mechanical transmission mode, axle arrangement 2-B. The hydraulic-mechanical transmission modes include automatic shift and manual shift modes which adopt electro-hydraulic shift, contributing to flexible and reliable shift, and shift can be realized without significant power (traction) interruption. | Hydraulic-mechanical transmission mode will also be acceptable. Refer Corrigendum VIII A. |
| 9 | Vol.2 Page 225 | Technical Specification of MPWS | General: MPWS should be Elevated Track. Corrigendum II-A: Pre-Bid Reply S.No.193 – Response from NMRCL : Elevated Track is out of scope of M&P Supplier. | Corrigendum II-A states that Elevated Track is out of the scope of supply, whereas in the Revised Technical Specifications it is included, which is contradictory. Please clarify whether it is required or not. | Refer Corrigendum VIII A. |
| 10 | Vol 2 | Section VII-B, Chapter-3 CNC Under Floor Wheel Lathe ,ERTS clause no. 3.16.7 | The CNC shall be built to satisfy the technical specification. The workstation touch screen of each side is proposed to be minimum 15" LCD or better. There should be redundancy in operating the system from each side. | Workstation touch screen of each side to be changed from "each side" to "single central located" | It is clarified that single centrally located workstation touch screen with redundancy in operating the system shall also be acceptable |
| | Vol 2 | Section VII-B, ERTS clause no. 10.5.3 | It shall have at least 2 lockable doors, safety glass and screen wipers. | 'locable door' to be changed to single door with easy access. | Tender Conditions prevail. |

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D. S. M. P. M.

