

**NAGPUR METRO RAIL CORPORATION LIMITED**

**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

**Corrigendum-II**

**Date:**16/12/2016

Tender No. (as uploaded in the new e-tender portal) 68

please find attached corrigendum II (A-E), details of corrigendum is as given below.

SN.	Description	Corrigendum No.
1	Reply of Pre-bid queries	II-A
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General Manager  
(Procurement)  
NMRCL,Nagpur

## Corrigendum II-A

### Pre-bid Queries and Reply

Tender Notice No. N1M&P-1/2016. (ICB), Dt.01.10.2016

Date of Pre-Bid Meeting:- 4th November 2016

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.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
1	2	VII-A	Chapter-4,4.2	PLANNING, PROGRAMME AND PROGRESS MONITORING	This requirement may be deleted from this contract as it is impractical and uneconomical to arrange this kind of set up for M&P project. It will only increase the project costing.	Tender Conditions Prevail.
2	2	VII-A	Chapter-6		This requirement may be deleted from this contract as it is impractical and uneconomical to arrange this kind of set up for M&P project. It will only increase the project costing.	Tender Conditions Prevail.
3	2	VII-A	1.1.3(8) clause	Instrumented Catenary Maintenance Vehicle with Train Shunting Capability.	i) Instrumented Catenary Maintenance Vehicle with Train Shunting Capability (4 Wheeler-1 No). ii) Instrumented Catenary Maintenance Vehicle with Train Shunting Capability (8 Wheeler-1 No). For Instrumentation – Integrated System or Separate Systems, both options may be permitted.	The Scope of Supply includes Instrumented Catenary Maintenance Vehicle with Train Shunting Capability (4 Wheeler-1 No) and Instrumented Catenary Maintenance Vehicle with Train Shunting Capability (8 Wheeler-1 No). <b>It is clarified that only Integrated System is required.</b>

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
4	2	VII-B	clause 3.8.1.2	The machine shall measure the actual profile of worn wheels and CNC control system determines the new optimum wheel set diameter by means of measured data. This nominal machine diameter is indicated at the operator control console, and it can be accepted and rejected by operator. The machine shall compare the measured actual profile with the nominal machining diameter and determine the optimum cutting depth and automatically perform preliminary and finished cuttings. The alteration by operator shall be allowed. The profile shall be user programmable. Machine shall be capable of machining newly manufactured un-mounted wheel sets using centres and hold down device.	Between Centre Turning is not recommended on UFWLs. This is realized by a portal wheel lathe or Surface Wheel Lathe. Hence this requirement may be deleted.	please refer corrigendum-II B
5	2	VII-B	3.16.7(i)	Connector for the addition of a data input keyboard, an RS 232 connector output and a laser printer shall also be provided. The software shall be designed to enable these hardware.	This may be amended to: Connectors for the addition of a data input keyboard, a <u>suitable connector</u> output and a laser printer shall also be provided. The software shall be designed to enable these hardware.	please refer corrigendum-IIB:
6	2	VII-B	clause -6.3.5	After the load testing or measurement operations on the bogies have been performed (from 1 to 4 wheels), the pre- and post-testing measurement results shall be possible to be edited or printed in table form. Data shall be transferred to a microcomputer via interface software.	The post-testing measurement results shall be possible to be printed in table form. Data shall be transferred to a microcomputer via interface software. It should not be possible at user level to edit the test results.	please refer corrigendum-IIB
7	2	VII-B	clause -6.4	For NMRCL Rolling Stock, it is 1358 +2/-0 mm both. Laser sensors shall be used for this measurement the output of which shall be fed to recording system automatically. The bogie test stand shall be capable to measure this distance over the range of 1600 mm.	Wheel back to back spacing: For NMRCL Rolling Stock, it is 1358 +2/-0 mm both. Laser sensors shall be used for this measurement, the output of which shall be fed to the recording system automatically.	please refer corrigendum-IIB

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
8	2	VII-B	clause-6.6.8	<p>6.6.8 Calibration system of the machine: The tenderer shall explain the requirement of the calibration of the system for various measurements. Any tools required for calibrations shall be included in the tender offer.</p> <p>Bogie Test Stand should be able to calibrate itself at regular intervals. The bogie test stand shall be capable to calibrate on all the required axes, load cells, measuring software etc. If any special test piece is required for this purpose, it shall be under the scope of supply of the contractor. Bogie Test Stand must calibrate followings:- 1) Calibration of the load cells Calibration of Air Suspension 2) Calibration of the air leakage test unit</p>	<p>The tenderer shall explain the requirement of the calibration of the system for various measurements. Any tools required for calibrations shall be included in the tender offer.</p> <p>Bogie Test Stand should be able to calibrate itself at regular intervals. The Bogie Test Stand shall be capable to calibrate Distance Measurements on all the required axes, load cells, measuring software etc. If any special test piece is required for this purpose, it shall be under the scope of supply of the contractor. Bogie Test Stand must calibrate followings:- 1) Calibration of the load cells 2) Calibration of the air leakage test unit 3) Calibration tool for axle distance 4) Calibration tool for wheel back to back distance</p>	<p>please refer corrigendum-IIB</p>
9	2	VII-A	chapter-1	list of machines	Item No. 7, Rescue Vehicle with Re-Railing Equipment – the total Qty. mentioned in the Table 1.1 is 2 Nos., however in the Cost Centre A of Bid. Doc. Part 1, Page 196, it is mentioned as 1 No. Kindly clarify the exact quantity.	It is clarified that Qty. for Rescue Vehicle with Re-Railing Equipment is 1 No. only.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
10	1		Annexure-IV-B, pricing document, Annexure-II, Milestone payment schedule	<p>payment terms :-</p> <p>1. 20% Advance Payment of Supply Price REF: (Cost Center A, B &amp; C) and for Civil Works (Cost Center D), against Advance Payment Bank Guarantee.</p> <p>2. <b>60%</b> Payment of Supply Price, against Bill of Lading on FOB dispatch of M&amp;Ps on Pro-Rata Basis. (REF: Cost Center A, B &amp; C)</p> <p>3. 60% Payment of Civil Works of M&amp;Ps on Pro-Rata Basis will be made after completion of the civil work of each respective M&amp;P. (REF: Cost Center D)</p> <p><b>4 40%</b> Payment of Supply Price of M&amp;Ps on Pro-Rata Basis (for the respective M&amp;Ps being supplied), will be made after completion of Installation, Testing and Commissioning of respective M&amp;Ps. (REF:</p>	<p>The Advance Payment amortization is complicated and may be deleted. Since Advance Payment of against 110% Advance Payment Bank Guarantee, it is not necessary to deduct the Advance Payment from the running bills. In simple terms, Receiving total of 80% Supply Payment (20% Adv. + 60% against FOB Shipment) and Balance 20% on Commissioning is standard and desirable.</p>	<p>please refer corrigendum-IIB</p>

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
11	1	III	Annexure IIIA-Pre-Qualification Documents, Assesment topiss,T4	The minimum requirements to 'Pass' this criteria is that the Average Annual Turn Over for the last five financial years for M&P manufacture only (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.05.2016. by assuming 5% escalation for Indian Rupee and 2% for foreign currency per year) shall not be less than INR 2000 million. The financial year as applicable in the country of origin of the bidders would be considered. The 'last financial year' will be the latest financial year that ended on or before 31.05.2016. In case of a Joint Venture/Consortium, the above evaluation will be done in totality after applying pro-rata percentage participation of each member and not as individual member. For example, if there are three members in a Joint Venture/Consortium with pro-rata percentage participation of 'A%', 'B%' and 'C%' and the Average Annual Turnover of the respective members are 'X', 'Y' and 'Z', then the evaluation for the above criteria will be based on the pro-rata percentage applied algebraic aggregate i.e. 'AX+BY+CZ'.	It is difficult to have an average Annual Turn Over of INR 2000 Million in individual capacity. We do not want to enter into a JV just because of compliance requirement to this clause. Hence we request you to kindly change this requirement to INR 1000 Million.	Please refer corrigendum II-B
12	3	IX	Particular condition of contract Clause no- 39	The repayment amortization rate (%) shall be as under: The recovery of the above Advance Payment shall be done in respective currencies and shall commence when 30% of the original contract value of the work has been paid in respective currencies and shall be recovered by deduction of 25% of the amount of each Interim Payment, until the total of the mobilization advance is recovered.(Replaced clause in PCC prevails)	The Advance Payment amortization is complicated and may be deleted. Since Advance Payment of against 110% Advance Payment Bank Guarantee, it is not necessary to deduct the Advance Payment from the running bills. In simple terms, Receiving total of 80% Supply Payment (20% Adv. + 60% against FOB Shipment) and Balance 20% on Commissioning is standard and desirable.	Kindly refer SN 10 above.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
13	2	VII-B	Chapter Specific requirements of rescue equipments -8		With regards to the vehicle, we would like to offer UNIMOG U 423 with following engine specifications data: <ul style="list-style-type: none"> <li>• Mercedes-Benz-4 cylinder diesel engine OM 934 LA</li> <li>• Power 170 kW (231 hp); 2200 rpm</li> <li>• Displacement 5132 cm<sup>3</sup></li> <li>• Torque max. 900 Nm</li> <li>• Graduation to euro 5</li> <li>• NOx sensors</li> <li>• According to TRGS 554</li> </ul> The same may be permitted as no Specific Vehicle Data has been mentioned in the Technical Specifications.	please refer corrigendum-IIB
14	2	VII-B	Chapter 9: CMV(4 wheeler ) clause 9.5.1	The proposed power of the engine will be a minimum of 325 kW. This proposed power can vary depending on the current state of the diesel engine technology.	We suggest using 220 KW engine mounted onto the 4 wheeler Catenary Maintenance Vehicle. This will comply to all the technical requirements. Hence the same may be permitted.	please refer corrigendum-IIB
15	2	VII-B	Chapter 10: Operating Requirements 10.1.1	The Battery Operated Road cum Rail Shunting Vehicle shall be designed to start & haul 140 tons 3 cars train on dry & wet tracks with a maximum track gradient of <b>2.0%</b> with curve radius of 100m including turnouts and crossings for Nagpur Metro. The vehicle shall be able to generate continuous draw bar pull of 13KN while pulling the cars at straight level track and 20KN uphill at 2% gradient. The tenderer shall submit the performance curves/ trial result in confirmation of above.	The drawbar pull of 13 kN & 20 kN is possible, but to start with a load of 150 ton, a starting power is needed $150 \times 260N = 39 \text{ kN}$ . Hence we will offer 39kN. Hope the same will be permitted.	please refer corrigendum-IIB

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
16	1	I	Clause 14.2		<p>With Reference to our letter No. PIA/NMRCL/16-17 dated 20.10.2016 submitted through e mail on 20.10.2016 (copy attached), we propose your arranging modifications to the relevant tender clauses in line with our below proposal:</p> <p>In place of the tendered requirement for submission of bid for the whole of works in one lot, we propose that the whole works to be divided in following groups:</p> <p>Group A:-</p> <ol style="list-style-type: none"> <li>1) Automatic Train Wash Plant</li> <li>2) Rescue Vehicle with Re-railing &amp; allied equipment</li> <li>3) Battery Operated road cum rail Shunter</li> <li>4) Multi functional Platform</li> </ol> <p>Group B:-</p> <ol style="list-style-type: none"> <li>1) CNC Under Floor Wheel Lathe with Shunting system</li> <li>2) Underfloor Train Lifting system</li> <li>3) Mobile Lifting Jacks</li> <li>4) Bogie test bench</li> <li>5) Bogie turn table</li> </ol> <p>Group C:-</p> <ol style="list-style-type: none"> <li>1) Catenary Maintenance Vehicle – 8 wheeler plus 4 wheeler. We propose your incorporating the following commercial clauses suitably:</li> <li>2) It should be possible to participate only in 1 group , 2 groups or all the groups together.</li> </ol> <p>The groups have been suggested based on application synergy. Bid evaluation should be done group wise (ref Clause 35 &amp; 36).</p>	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
					<p>3) Order to be placed on the lead bidder of each group.</p> <p>4) Dispatches will be made directly by the individual manufacturer/supplier and the payment should also be made accordingly.</p> <p>5) EMD for each group is to be specified by the purchaser. EMD will be arranged by the lead bidder or the Indian agent.</p> <p>6) NMRCL to confirm whether the Indian agent of the respective OEMs can be the lead bidder.</p> <p>7) There should be at least two months time from the pre bid meeting to submit offer.</p> <p>8) It should be possible to quote for the civil engg work of each item separately by the Indian agent who should be allowed to engage sub contractor for the same.</p>	
17	1	I	Clause 35	Evaluation of bids :35.1 the employer shall....successful bidder under the contract.	Evaluation of bids as per tendered methodologies, however - group wise - Clause to be modified suitably.	Tender Conditions prevail.
18	1	I	Clause 36	comparision of bids: The Employer shall compare the evaluated prices of all substantially responsive bids established in accordance with ITB 35.2 to determine the lowest evaluated bid.	Comparison of bids to be done group-wise. - Clause to be modified suitably.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
19	1	II	BDS ITB 4.8	<p>Further, a Power of Attorney signed by all the JV/Consortium Members duly supported by their board resolutions or statement of joint decisions signed by director must also accompany the Bid authorizing the Lead Member, inter alia, to submit the Bid on their behalf. The formats of the Power of Attorney as well as the board resolution are provided in Section IV: Bidding Form (Form 9). As the Contract Agreement will be required to be executed by all other Members of the Consortium also in addition to signing by the Lead Member, therefore each of such other Members is required to issue a Power of Attorney authorizing an individual as its authorized signatory, inter alia, to sign the Contract Agreement. The format of the Power of Attorney is provided in Section IV: Bidding Form (Form 9D).</p> <p>This power of attorney should be registered at appropriate authority in the jurisdiction &amp; as per that law of the Country, where the Power of Attorney is being issued and easily verifiable.</p>	<p>To be modified as: Lead member will be group-wise &amp; bid authorization of group-wise JV members will be given in favor of the lead member.</p>	<p>Tender Conditions prevail.</p>
20	1	II	BDS ITB 4.9	<p>Every Bidder, be it a single entity or a consortium, is required to submit along with its Bid a Power of Attorney duly signed and stamped and supported by its board resolution authorizing an individual as its authorized signatory, inter alia, to sign and submit the Bid. The formats of the Power of Attorney as well as the board resolution are Section IV: Bidding Form (Form 9). In case of consortium, such power of attorney and board resolution must be executed and passed respectively by the Lead Member.</p>	<p>The Power of Attorney will be given by each member of the respective group authorizing an individual as authorized signatory. Clause to be modified suitably.</p>	<p>Tender Conditions prevail.</p>

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
21	I	II	BDS ITB 4.11	Where the Bidder is a Consortium or Joint Venture, the Bidder shall submit the following additional information to meet the qualification criteria for eligibility: (a) A Memorandum ...Embassy. (b) Nomination of one... Consortium or Joint Venture. (c) Details of .... individual Members. (d) The Lead member .... Members of the Consortium / Joint Venture. (e) All members ..... of the Contract. (f) In case of....under the relevant act, laws & Provisions so as be legally valid and binding on all partners / members. (g) The Bid shall be signed so as to be legally binding on all the Members of the JV/Consortium.	The memorandum of understanding will be given group-wise - Clause to be modified suitably	Tender Conditions prevail.
22	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) Clause :6.3	The Bogie test stand measures the parameters of Bogie like compression of primary springs, crown height measurement etc. under different loading conditions.	What is intended for "Crown Height measurement"?	This is a height measured on the primary suspension from the top of the Axle Box to the Bottom of the Bogie Frame / Sole Bar.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
23	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) Clause :6.3	<p>The bogie has to be moved and positioned manually underneath the stand. For this the rail level at workshop floor and the test surface of the bogie test stand shall be at the same level. A submerged version of the bogie test stand shall be most suited to these requirements. However tenderer should propose the version of bogie test stand that fulfils above requirement of manual loading.</p> <p>To carry out the testing, both hydraulic rams of Bogie Test Stand shall be vertically driven by automatically PLC control system. Alternatively, this movement can be manually controlled by using pendent control system. Once the load to be applied on the load points of bogie are set on PLC system, the load of required capacity can be applied and displacement and various clearances of the bogies shall be measured.</p> <p>The Bogie Test Stand is operated via a control panel so that operator has continuous access to all Bogie Test Stand functions.</p> <p>The testing shall be user programmable. Bogie Test Stand shall be capable of load testing of NMRCL Rolling Stock and also capable to test similar type bogies of other NMRCL Rolling Stock.</p> <p>Following are the details of measurement cycles expected in the Bogie Test Stand:</p>	For manual control of the hydraulic rams, can the pendent control system be replaced by a buttons on the control cabinet (more safe solution)?	please refer corrigendum II B

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
24	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.3.2	On start of the bogie test stand machine, a preload test shall be carried out before any measurement is done. Supply and commissioning of this preload stand shall be under the scope of this contract. Centre adaptor and bogie adaptor shall be part of stand for initial calibration measurements. All the four- wheel load cells must show „0“ value at this stage. If the value is not zero it should be re-set to zero by the reset button. Further the height measurement of pressing spindle shall be done with spindle retracted in top position. The details of preload test shall be explained by the tenderer in his bid document.	Is the "Bogie preload Test Measurements" executed with or without the bogie on the rails?	It is clarified that the "Bogie preload Test Measurements" are carried out with the bogie on the rails, on the machine.
25	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.3.2	On start of the bogie test stand machine, a preload test shall be carried out before any measurement is done. Supply and commissioning of this preload stand shall be under the scope of this contract. Centre adaptor and bogie adaptor shall be part of stand for initial calibration measurements. All the four- wheel load cells must show „0“ value at this stage. If the value is not zero it should be re-set to zero by the reset button. Further the height measurement of pressing spindle shall be done with spindle retracted in top position. The details of preload test shall be explained by the tenderer in his bid document.	What is CENTRE ADAPTOR and BOGIE ADAPTOR for initial calibration measurement	It is clarified that these are Adaptors for the Loading Points of the Bogie. The adapter weight and height shall be considered in the programming, calibration of the machine.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
26	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.3.3	Bogie testing :Bogie shall be .....selcted on menu screen.There should ...started.In case of automatic test procedure only if the "Automatic" position and "test procedure" is selected plant should go into "touch load position". It shall also be possible that measurement can be started manually during an automatic test procedure. Before starting the automatic type procedure the system shall be capable to check the different conditions.	What is intended for "Touch load position"?	It is clarified that the machine shall automatically move the ram vertically until it touches the bit is clarified that Bogie and the load just starts to count. This is the Touch Load Position.
27	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.3.3.3	6.3.3.3. Unit is in "touched mode" ("touched load") on every hydraulic cylinder.	What is intended for "Touched mode"?	It is clarified that When the machine has reached to the Touch Load position, the PLC Software indicates the Touched Mode.
28	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.4.7	This equipment can realize the automatic measurement and record the resistance of every axle, automatic measure the axle resistance between two wheels by reasonable design, the support wheel shall be insulation against ground, test the wheel set resistance under the wheel rotating status.  The resistance test function shall nature and reliable, the tenderer shall provide the principle of the resistance test, design plan, end user"s information that use machine more than half year and picture	Axle resistance test function. This test is executed on the wheelset dismounted by the bogie. If executed on the bogie, since the axle bearings are in electrical contact with the rest of the bogie, the Axle resistance will be a false value". Is this test really a correct requirement?	It is clarified that the axle resistance has to be tested on the complete mounted Wheel Set on Bogie. The tenderer shall provide the principle of resitance test and design plan as stipulated in the Tender Conditions. Tender Conditions prevail.
29	2	VII-B	Chapter 6 -Bogie Test Stand 6.5	Heightmeasurement :work height of 500 mm in partial step of	Sentence not clear: "Work height of 500 mm in partial steps of"	please refer corrigendim IIB
30	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.5	Accuracy of indicating=+-0.5mm	What is the difference between "Accuracy of Indication" and "Accuracy of indicating"?	please refer corrigendum II-B

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
31	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.6	Accuracy of wheel positioning	What is intended for "Accuracy of wheel positioning"?	It is clarified that this is the Accuracy of Axle distance measuring, left and right side of the axle, position of each wheel, with respect to the Machine Centre in X (driving direction).
32	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.7	Accuracy of measurement"= ±1.0%	"Accuracy of measurement"= ±1.0% is it intended as ±1,0% full scale of all the measures operated by the transducers present on the machine?	YES. Bidder understanding is correct.
33	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.6.2	Foundation details of the installation of the bogie test stand including General and Electrical Layout shall be submitted in the offer document. The foundation details shall be prepared considering the version of test stand, which suits NMRCL requirement of manual loading of bogie. The contractor shall provide fencing around the pit for Bogie Test Stand with suitable painting on the fencing. The foundation requirement for the test stand shall be kept to minimum.	Foundation and civil works are out of scope of the Bogie Test Stand supply?	It is clarified that Civil Foundation Work is included in the Scope. Please refer to Schedule A of Bid Document Part 2.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
34	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005 ) 6.6.3	As mentioned above only the load sensing devices shall be installed below the floor level. Weighing shall be done on each of the wheel flange by individual load sensing device. Load sensing device shall be fitted in the Rail tracks on specified places under the Bogie Test Stand to measure up to 40 Ton (max of 10 Ton on each point). The position of these on the side of the rails shall be shown in the offer. Tenderer shall explain the details in bid document.	Since Hydraulic rams produce up to 40 T, if the load sensing devices arrives to a max of 10T, at maximum load (40T) the weight of the bogie will not be read.	It is clarified that the Load Sensing Devices are to be designed according to the Maximum Test Load Application of 40 Tons. Tender Conditions prevail.
35	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.6.8	The tenderer shall explain the requirement of the calibration of the system for various measurements. Any tools required for calibrations shall be included in the tender offer.  Bogie Test Stand should be able to calibrate itself at regular intervals. The bogie test stand shall be capable to calibrate on all the required axes, load cells, measuring software etc. If any special test piece is required for this purpose, it shall be under the scope of supply of the contractor. Bogie Test Stand must calibrate followings:- 1) Calibration of the load cells Calibration of Air Suspension  2) Calibration of the air leakage test unit	Can the calibration of the load cells, and air leakage test unit, be operated with reference transducers of same accuracy and resolution of the transducers mounted on the machine?	It is clarified that an independent Calibration Tool / System is required.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
36	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.7.3	2 hydraulics load yokes of min load capacity 20 Ton each with working stroke up to 500 mm (stroke under pressure) shall be part of the Bogie Test Stand. Fast speed operation shall be possible by means of hand-controlled pendent. The Hydraulic cylinder ram assembly should be effectively sealed to prevent any leakage of oil. Full details of the system shall be explained in the offer by the tenderer.	Fast speed operation by means of a pendant control system can be changed with buttons on control cabinet?	please refer corrigendum II-B
37	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005 ) 6.7.4	Pressure Sensors: Pressure sensors shall be installed on the load measurement system. Sensors shall be connected to the converters, which shall indicate the load in tons with a precision to within two decimal points. Calibration shall provide a zero display reading when the wheel are not loaded or load is lifted. The converters shall be integrated in the control panel.	Can please explain what is intended "Pressure sensors shall be installed on the load measurement system"?	It is clarified that the Pressure Sensors are the Load measuring cells, which are installed on the Rams and on the other units to measure loads.
38	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.8	The integration and interface pneumatic connections from shop supply to bogie shall be part of scope of work. The details of proposed pneumatic system of the bogie test stand shall be explained in the bid document	"The integration and interface pneumatic connections from the shop supply to the bogie shall be part of scope of work". For this requirement, we need to have the bogie RS-3 interface drawings to draw out a technical and economical evaluation of the tools requested.	It is clarified that NMRCL will provide the drawings in the design review phase. Bidders may consider in their offers, an air suspension system commonly used on metro bogies.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
39	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.9.5	All cables, apparatus, gear and terminal strips shall be identified with relation to each connection. The same identification system shall be marked on the hydraulic and electrical diagrams. Power supply cables to the main board shall be in the scope of supply. Cables shall be laid in trenches.	Please specify what is the "Power supply cables to the main board" and what type of cables have to be supplied	20 Meter power supply cables of suitable capacity from power supply in the workshop to the main cabinet of the machine shall be in the scope of supply of the supplier.
40	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.9.5	All cables, apparatus, gear and terminal strips shall be identified with relation to each connection. The same identification system shall be marked on the hydraulic and electrical diagrams. Power supply cables to the main board shall be in the scope of supply. Cables shall be laid in trenches.	Trenches and civil works for cables lying are on customer liability?	Civil Foundation Work is included in the Scope. Please refer to chapter -1Schedule A of Bid Document Part 2.
41	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.10.1	General Navigator: Following General Navigator shall also be provided in the IPC for easy operation. Navigation for Sorting the data, Search the data, Navigation to first data, Navigation to previous data, Navigation to next data, Navigation to last data, Navigation for Delete a record after confirmation, Edit data sheet, Inserting data sheet, Only view, Accept / continue, Cancel edit, data update, Prints, Window close, Grid View, Form View, Calculator etc.	Please specify better what is a "General Navigator" for the IPC. Is it like Microsoft Explorer or is it a Database client for test records?	It is clarified that this a feature of the Machine Software required to search, sort data in the Software Database of the bogie test program.
42	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.10.4	With the relevant software of "Bogie loading", several dynamic or static tests can be operated. Performances of the software "Bogie loading", will include process visualization.	Please specify better what is a "Bogie Loading" for the IPC. Is it the control SW for Bogie tests?	It is clarified that this is a Control Parameter and a part of the software Interface Protocol and the PLC

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
43	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.11	A concrete hardened shop floor with a pair of rails embedded will be made available at the installation site of this Bogie Test Stand by the depot contractor of NMRCL. The foundation for vertical column sand load cells shall be simple ones requires making of a simple foundation. Preferably no deep excavation should be required to be done for installation of BTS. The installation details including foundation works of the Bogie Test Stand shall be submitted to NMRCL in advance.	Are Civil Works out of scope of works?	Civil Foundation Work is included in the Scope. Please refer to Schedule A of Bid Document Part 2.
44	2	VII-B	Chapter 6 -Bogie Test Stand (Item Code: NMRCLMNP005) 6.15	The Plant is expected to meet the RAMS target of 96% Availability, which will be calculated excluding the downtime planned for Preventive Maintenance Services. Standard Penalty will be applicable as per the Penalty Clause	Specify the formula applied by NMRCL for RAMS calculation of 96% Availability, and applicable penalties.	This is Bidders responsibility. Bidders are required to provide the Compliance to achieve 96% availability.
45	2	VII-B	Chapter-8 Rescue Vehicle with Re-railing & Allied Equipment (item code- NMRCLMNP007)		Detailed specification have been given for the Rescue Device & Re-Railing equipment. However for the Basic vehicle the specification mentions "The rescue vehicle shall be of UNIMOG Make or equivalent" - Detailed specification of the basic vehicle & the Rail Guiding system is missing.	Kindly refer to SN 13 above
46	2	VII-B	Chapter-8 Rescue Vehicle with Re-railing & Allied Equipment (item code- NMRCLMNP007)		Please specify your requirements against the following: track gauge, minimum curve radius, max gradient.	Please refer to NMRCL SOD

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
47	2	VII-B	Chapter-8 Rescue Vehicle with Re-railing & Allied Equipment (item code-NMRCLMNP007)		Please specify your requirements against the following: Max. driving speed on roads approx, max. driving speed on rails without trailing load, max. driving speed on rails with trailing load, with wagon brake system, max. driving speed on rails with trailing load, without wagon brake system, Transmission: Required No. of gears forward and reverse, Any other specific requirement for transmission, Drive - Portal Axles; Differential locks; Power steering, Brake system, Wheelbase, Type & required capacity of Fuel Tank, Any other specific requirement for Chassis, Type & required capacity of Cabin, Specifications for Tyres, Push/pull capacity, if no gradient,	please refer corrigendum II B
48	2	VII-B	Chapter-8 Rescue Vehicle with Re-railing & Allied Equipment (item code-NMRCLMNP007)		Adapter for coupler head provided by NMRCL	NMRCL will provide only Coupler details. Adaptors will be Suppliers responsibility.
49	2	VII-B	Chapter-8 Rescue Vehicle with Re-railing & Allied Equipment (item code-NMRCLMNP007)		Coupler heads have to be provided by NMRCL. ZAGRO will deliver adapters for installation of the provided coupler heads.	NMRCL will provide only Coupler details.
50	2	VII-B	Chapter-5 Mobile Lifting Jacks (item code-NMRCLMNP004) Clause 5.3		Whether the required columns have to be with fixed or moveable anvil?	Key Parameters under Clause No. 5.3 specifies that the Lifting Jacks will have Adjustable Cantilever, i.e. movable Anvil.
51	2	VII-B	Chapter-5 Mobile Lifting Jacks (item code-NMRCLMNP004) Clause 5.3	Cantilever adjustable range: 475 mm	" Cantilever adjustable range: 475 mm": Neither the minimum distance of anvil from the column nor the maximum distance is mentioned. Please specify.	Cantilever adjustable range of 475 mm is the minimum desired working range of the Cantilever. Kindly refer revised Technical Specifications (Corrigendum II C)

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
52	2	VII-B	Chapter-5 Mobile Lifting Jacks (item code- NMRCLMNP004) Clause 5.3	Vertical stroke: 2115 mm	Vertical Stroke: It is asked for an highest position of claw equal to 2500 mm and a lowest position of claw of 400 mm (2500 – 400 = 2100 mm of vertical stroke)...however the pointed out as vertical stroke : 2115 mm. Please clarify.	It is clarified that the 2100mm stroke mentioned is the actual working range. Difference of 15 mm is for Positioning Clearance. Tender conditions prevail.
53	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009) clause 10.1.4	The Battery Operated Road cum Rail Shunting Vehicle shall be of rail cum road type with metal/rubber tyre wheels, preferably with separate individual drive for running on tracks and separate drive for travelling on concrete floor/ road of the workshop/depot but tenderer may also propose any other alternative proven design for movement on track as well as on the road and test report for the satisfaction of the client for similar application in the technical offer.	NMRCL to confirm acceptance on the following: Chassis with 4 separately driven wheels with Vulkollan tyres (wheel diameter: 457 mm) for operation on road and rails	Vulkollan Wheels will be acceptable. Kindly refer revised Technical Specifications. (Corrigendum II C)
54	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009) 10.3.5	Braking shall be hydraulically actuated and controlled by a foot pedal in road mode. Track mode braking by regenerative motor/inverter braking.	NMRCL to confirm acceptance on the following: Braking system on vehicle: electrical braking system applying on all wheels	please refer corrigendum II-B
55	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009) 10.5.8	Parking brakes shall be provided.	NMRCL to confirm acceptance on the following: Parking brake: electromagnetic brake, applied automatically in case of power failure and standstill	please refer corrigendum II-B
56	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009)		Push/pull capacity: approx. 300 t -700 t (if no gradient)	Technical Specification defines need for 150 Ton Pulling Load on max. 2% gradient. Existing Tender Specifications Prevail

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
57	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009) 10.1.2	The Battery Operated Road cum Rail Shunting Vehicle shall have maximum height above top of rail with cabin it shall not exceed 2500mm and width shall not be more than 2000mm while moving on rail.	NMRCL to confirm acceptance on the following: Dimensions (approx.): L 4250 mm, W 2170 mm, H 2850 mm including cabin	please refer corrigendum II/B
58	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009) 10.6.1	A control panel, all control gears and monitoring measures shall be provided at the driver seat for full operation of the Shunter.	Please note: Steering / operation of the shunter inside of the cabin also with radio remote control. No foot pedals available.	Tender Condition Prevail. Kindly refer Clause No. 10.3.5.
59	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009) 10.6.4	Coupler height shall be adjustable by hydraulic mechanism standard manually at four corners, by remote optionally	NMRCL to confirm acceptance on the following: Height adjustable coupling device: - electric operated to adjust coupling height from approx. 400 to 1000 mm operation via radio remote control	Automatic Couplers Height adjustment shall be done by Hydraulic Mechanism or Manually for both ends of the Shunter. Operating of the mechanisms through Radio Remote Control or Driver's Control Desk will be acceptable.
60	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009)		NMRCL to confirm acceptance on the following: indication for low hydraulic oil / Protection against low oil level in hydraulic system: not necessary only track guiding system equipped with hydraulic system	Existing Tender Specifications Prevail

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
61	2	VII-B	Chapter-10 Battery Operated Rail Cum Road Shunting Vehicle(Item Code: NMRCLMNP009) 10.9	The Plant is expected to meet the RAMS target of 96% Availability, which will be calculated excluding the downtime planned for Preventive Maintenance Services. Standard Penalty will be applicable as per the Penalty Clause.	NMRCL to confirm acceptance on the following: RAMS study not available. We follow MTBF. Calculation MTBF (Mean Time Between Failures) as below:- Working Hours : 88900 Unplanned Downtime : 345 Number of unplanned breakdowns : 87 Data based on empirical values / evaluation of technical malfunctions under different usage behaviour and environmental conditions: MTBF = $\Sigma(\text{down-time} - \text{up-time})/n$ (n = number of unplanned breakdowns) MTBF = $88555/87 = 1017,87$	Existing Tender Specifications Prevail
62	1	III	1.1 SN 1 ELIGIBILITY CRITERIA	B.	NMRCL to confirm acceptance on the following: Minimum Number of Type of Machines from Schedule —A which the Bidder must have, supplied, Tested & Commissioned within last 10 Years. These 4 types should include at least one type of machine from Automatic Train Wash Plant/ Under Floor Wheel Lathe/Under Floor Train Lifting System.	It is Confirmed.
63	part-1	III	1.1 SN 3 B. ELIGIBILITY CRITERIA		NMRCL to confirm acceptance on the following: Minimum Number of Type of Machines from the above 4 Types of machines (SN-1), which the Bidder must have Supplied, tested & Commissioned Out Side the Country of Origin within last 10 years.	It is Confirmed.
64	Part-1			General	As this is ICB-International Competitive Bidding, we request herewith to give appropriate time in framing Bid Queries & also Bid Submission, this will encourage good competition in market in best interest of Project. We are already in touch with global OEM-original equipment manufacturers relating to machinery & plant which are required for Depots in Nagpur Metro Rail Project. Herewith we once again request you to consider extension of time for Bid Queries Submission & Bid due date extension.	Any Change in the Bid Submission Schedule, will be advised through NMRCL e-tender portal.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
65	1		Date & Time of submission of Tende	E-Tender Notice -Online submission up to 16.00 Hrs on 03/12/ 2016 at NMRCL's etender portal	Request you to kindly grant an extension of 8 weeks from the current date of submission of Tender.	Any Change in the Bid Submission Schedule, will be advised through NMRCL e-tender portal.
66	1	I	ITB 4.5	This Bidding is Open ...in the BDS.	Request to Delete this Clause. As per Format for Invitation for Bids paragraph 2 at page No. 5, this is a Single Stage two packet system tender. Prequalification Documents are not asked separately.	Tender Conditions are self explanatory. No change is required.
67	1	I	ITB 7	Clarification of bidding documents, site visit, pre-bid meeting :A Bidder requiring any clarification of the Bidding Documents shall contact the Employer in writing at the Employer's address specified in the BDS or raise its enquiries during the pre-bid meeting if provided for in accordance with ITB 7.4.	Please allow us to submit Queries if any upto 21 days prior the date of submission of Tender	The last date of submission of Pre-Bid queries is over on 07.11.2016
68	1	I	ITB 7.2	The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.	Please clarify land availability, Depot Area, Access to site & Storage details etc.	The tentative drawing of MIHAN Depot and HINGNA depot will be uploaded as a part of corrigendum.
69	1	I	ITB 11.1(d)	Alternative Bids, if permissible _---	Alternative Bids is not permissible as per ITB 13.1, 13.2 and 13.3. So this clause requested for deletion.	It is clarified that Alternative Bids are not permissible.
70	1	I	ITB 11.1(g)	documentary evidence in accordance with ITB 17 establishing the Bidder's continued qualified status or	As such ITB 17 is not present in BDS.	ITB 17 is available in Tender Document on Page No. 19, Section 1 of Part 1.
71	1	I	ITB 18.1	Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Employer in accordance with ITB 22.1	Replace -ITB 22.1 deadline for Bid submission 28th June 2016 Change date : 03rd December 2016	Kindly refer SN 64 above

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
72	1	I	ITB 35.4	If these Bidding Documents allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated price of the lot (contract) combinations, including any discounts offered in the Letter of Bid Form, is specified in Section III, Evaluation and Qualification Criteria.	Can Bidders quote separate prices for different lots (contracts) ? If yes please clarify methodology to determine lowest evaluated price if No : Delete this clause Also kindly clarify what are different lots (Contracts) ?	Please refer revised BDS Clause ITB 35.4
73	1	II	BDS ITB 1.8	The Contractor shall also carry out effective interface and coordination with the relevant Authorities and Designated Contractors and others appointed by the Employer from time to time, during the Contract Period.	1. Effective Interface : We understand interface between M&P & other contractors as per APPENDIX 7, page 71 to 81 of Part 2 only. Please specify additional information like Major Designated Contractor for various lots like Rolling Stock, SIG, Electrification, Building Service Contractor, IT coordinatotor (if any) etc. Coordination with relevent Authorities : Please name & list the Autherities. 2. Designated Contractors : Please name & list the Contractors. 3. Others appointed by Employers : Please name & list other appointments 4. Specially please revert with information relating to Civil Contractors relating to Depots & also contact person from Consultant if any.	NMRCL will provide this Data after award of the Contract.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
74	1	II	BDS ITB 1.9	The Contractor shall carry out Integrated Testing and Commissioning of M&P in co-ordination with Designated Contractors, under supervision of Engineer. It shall also carry out all statutory tests and trials on M&P necessary for obtaining sanction of competent / statutory authorities for opening the system for public carriage of passengers and provide assistance and information as required by the appropriate statutory authorities in India.	Statutory tests : Please list down Equipment Specific Test if any. trials on M&P : Please list down Equipment Specific Test if any. Obtaining Sanction of Competent /Statutory Authority : Please list down Equipment Specific Test if any. Also we understand obtaining sanction from Competent Authority is in scope of NMRCL, Siemens will provide support wherever required.	It is clarified that Compliance to Statutory Tests of respective M&Ps, in relation to the SOD (as applicable) and Performance requirements is mandatory. Details will be a part of Design Review. The sanctions from Competent Authorities will be obtained by NMRCL, however the M&P Contractor has to provide the necessary support for all compliances. A List of tentative tests to be carried out on each M&P is enclosed.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
75	1	II	BDS ITB 5.2	There are no restrictions on the country of origin of plant, equipment, materials and services to be provided under the Contract but Bidders are encouraged to adopt Indian sources to the maximum possible extent. However, all plant, materials, supplies, equipment and services shall be to the satisfaction of the Employer and Engineer. The information on all plant, materials, supplies, equipment and services included in the Contractor's Proposal and incorporated into the Contract shall not, in any event, be construed as a submission to the Employer under the Contract. Contractor will be required to take specific approval of the Employer for deployment of plant, materials, supplies, equipments and services in accordance with the Conditions of Contract and Employer's Requirements. The Tenderer should note the requirements for transfer of technology.	Please remove statement: The tender should not have the requirements for transfer of technology, Please specify appropriate clause in tender.	please refer corrigendum II-B
76	1	II	BDS ITB 6.1	Replace provision of ....	Part 1 : We understand Annexure I, Annexure II-B, Annexure III-B is not used in tender.	It is confirmed that Annexure I, Annexure II-B, Annexure III-B is not used in tender.
77	1	II	BDS ITB 6.1	Replace provision of ....	Part 2 : Section VII-C : Bidding Drawings does not contain GAD, Depot General Layout: Please include all details in Tender.	please refer corrigendum II-D
78	1	II	BDS ITB 6.7.2	The Bidders shall note the existence of over ground, at grade and underground structures, utilities and infrastructure in the near vicinity of the Works to be constructed.	Please specify list of existence of over ground, at grade and underground structures, utilities and infrastructure in the near vicinity of the Works to be constructed.	Please refer Section I, ITB 7.2 on Page 14 of Bid Document Part 1.
79	1	II	BDS ITB 7.4 & 7.5	A Pre Bid Meeting & Query Submission Date	We understand pre-Bid meeting date as per mentioned in Tender Notice (i.e. 4th Nov. 2016) and also Prebid Queries Submission date is before 3rd Nov. 2016)	The last date of submission of Pre-Bid queries is over on 07.11.2016
80	1	II	BDS ITB 11.1.2	The Bidder shall...Commercial Envelope only on e-tender and not anywhere else.	We understand that Commercial Envelope is not required to submit in Hard Copy : Please Clarify	It is clarified that it is an Online Bid Submission Process.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
81	1	II	BDS ITB 11.3.1.25 & 42.3	Details of providers .....(see ITB 43) & The Bidder has to...	ITB 43 is not available in tender document, please clarify	Please refer Page 63 of Section II BDS, ITB 43 of Part 1.
82	1	II	BDS ITB 11.4.4, ii	The Bid Total Price includes Taxes and Duties, Unit Prices of materials of each Items, Royalties also. The price to be quoted shall be the total price of the Bid as elaborated in Part-1 Pricing Document.	The Bid Total Price.....Royalties, we request you to delete words Royalties.	Tender Conditions prevail
83	1	III	Evaluation & PQ Criteria, 2nd paragraph	This section....Wherever a Bidder is required to state a monetary amount, Bidders should indicate the USD equivalent using the rate of exchange.....	Replace with Monetary amount, bidder should indicate the USD equivalent to INR using the exchange rate. Please add word INR .	please refer corrigendum II-B.
84	1	IV	Bidding Forms Letter of bid - 1	(e) The total price of our Bid, excluding any discounts offered in item (f) below is: In case of only one lot, total price of the Bid  In case of multiple lots, total price of each lot _____ In case of multiple lots, total price of all lots (sum of all lots)_____;	In case of....Please define lot. Does it mean cost center??	It is clarified that it is the Sum of all Cost Centres.
85	1	IV	Bidding Forms Letter of bid - 1	Note	Para ( e )...We will mention as "Quoted" or "Not Quoted" as applicable in letter of Bid for Technical Proposal. This is for Clarification only.	Confirmed.
86	1	IV	Bidding Forms, page no.-76, summary of document	Alternative B	We understand Alternative A is not used / defined in Tender. Kindly Confirm	Confirmed.
87	1	IV	bidding forms , 4.4 Bidder's Technical Submission	Appendix-Q of Pricing Document (Annexure IV	Appendix Q is not defined in Tender Documents	please refer corrigendum II-B.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
88	1	IV	Bidding Forms,4.5 Form EQU : Equipment,page no. 87	4.5 Form EQU: Equipment	We understand that M&P Integrator can suggest proven make of respective M&P available from our global sourcing list.	It is clarified that, there is no reservation regarding particular make of any M&P. However, with respect to the offered Makes of M&Ps, the Eligibility Criteria as per Tender Conditions will have to be met with. This will also be subject to the Functional Parameters and SOD requirements.
89	1	IV	Bidding Forms, 4.11, clause 3, SN 6, page 94	The Bidder shall confirm .....Interfacing	Please add word --- Work scope split in M&P integrator and manufacturer	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.
90	1	IV	Bidding Forms,page no.-120	Form for seeking clarification...refer column Volume No.	We understand Part 1,2 & 3 as Volume 1,2 & 3 respectively	Confirmed.
91	1	IV	Bidding Forms, page no.-129 , Bidding form -20	We hereby certify that we will make credible arrangements for ensuring supply of critical spares and availability of technical support for maintenance and up gradation of equipment / systems / Machinery & Plant / Software, etc., which will become part of the Permanent Works executed under the contract (N1M&P-1/2016) during their service life.	Upgradation of the equipment systems / Machinery & Plant shall be mutually agreed & discussed before finalisation.	Tender Conditions prevail
92	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, Refer B. ELIGIBILITY CRITERIA 1.1, S.N. , page no. 154	Minimum Number of Type of Machines from "Schedule A"	Schedule A is not defined in Complete Tender Documents, Also list of 10 M&P mentioned at below clauses is not matching refer clause 1.1.3, chapter 1 of Section VII-A, page 9 General Specification & refer clause 1.1, chapter 1 of Section VII-B, page 85 Technical Specification Please clarify.	please refer corrigendum II-B

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
93	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, Refer ELIGIBILITY CRITERIA 1.1, S.N. 1	Minimum Number of Type of Machines from Schedule "A" which the Bidder must have , supplied, Tested & Commissioned within last 10 Years. These 4 types should include atleast one type of machine from Automatic Train Wash Plant/ Under Floor Wheel Lathe/Under Floor Train Lifting System,.	We understand these 4 types as Automatic Train Wash Plant OR Under Floor Wheel Lathe OR Under Floor Lifting System Or Any Machine out of Schedule A. Kindly clarify.	It is clarified that; Any 4 types from the List of M&Ps should have been supplied by the Bidder and out of these 4 types, at least one should be ATWP / UFWL / UFLS.
94	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, Refer ELIGIBILITY CRITERIA 1.2	Minimum Four Number of each type of machine as per Schedule "A" should have been Designed and manufactured, by the sole Bidder or the Consortium / Joint Venture of bidders or sub-contractors and the same should be in operation with satisfactory performance for a minimum period of 2 years after Commissioning.	Request to add as Minimum Four Number of each type.... bidders or sub-contractors OR <u>M&amp;P Integrator</u> .	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.
95	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, Refer ELIGIBILITY CRITERIA 1.3	The Tenderer shall attach the Certificate from the clients for satisfactory performance of the machines for a minimum period of 2 years after commissioning.	We understand that performance certificate submitted against clause CL 1.2 above remains valid here also.	It is clarified that Bidders may submit One Set of Valid Performance Certificates to comply with all the Eligibility Criteria.
96	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, Refer ELIGIBILITY CRITERIA 1.4	The bidder, if located outside India, shall have an Indian associate for Defects Liability Period and Post Defects Liability Period obligations. Such associate should have minimum 5 years of experience of Manufacturing/maintenance of Machines for Railways / Metros applications and providing satisfactory After-Sales Services. In support of the above, relevant certificates from their respective clients should be submitted and such documents shall be taken into consideration for technical qualification purpose.	We understand that performance certificate submitted against clause CL 1.2 above remains valid here also.	Tender Conditions prevail

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
97	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, Refer ELIGIBILITY CRITERIA 1.4	The bidder, if located outside India, shall have an Indian associate for Defects Liability Period and Post Defects Liability Period obligations. Such associate should have minimum 5 years of experience of Manufacturing/maintenance of Machines for Railways / Metros applications and providing satisfactory After-Sales Services. In support of the above, relevant certificates from their respective clients should be submitted and such documents shall be taken into consideration for technical qualification purpose.	Request to add ...Manufacturing/maintenance of Machines & <u>M&amp;P Integration</u> of machines.	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.
98	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, Refer ELIGIBILITY CRITERIA 5.0	Any subsidiary company participating as sole bidder or joint venture / consortium member can avail the experience of its parent company or its group company for evaluation purpose only if, subsidiary company submit parent company or its group company guarantee and undertaking for due performance of the contract by the subsidiary . vice versa of the above shall also be applicable.	Kindly clarify : vice versa of the above shall also be applicable	please refer corrigendum II-B
99	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, T4, page no.157	The Minimum requirement	The Minimum requirement .....for M&P Manufacturer & add word "M&P Integrator"	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.
100	1	III	Evaluation & PQ Criteria, ANNEXURE III-A ,PRO-FORMA LETTER OF APPLICATION.. ,page no. 164	A power of Attorney...	Seems incomplete paragraph, kindly confirm.	Clause is self-explanatory. Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
101	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, INITIAL FILTER...CL 6, page no. 166	For the ....	.....for each constitute member, ..please add "individual Company"	Tender Conditions prevail.
102	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, PRO-FORMA SECTION 4, Clause 19, page	enclosed at Annexure 3	Please delete word "Annexure 3", Resume Format is already mentioned in Form PER-2, page 89 of part 1.	Tender Conditions prevail.
103	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, PRO-FORMA SECTION 1 - GENERAL, Clause 7, page no. 167	Does ...(in case...	Please add word .....in case of a Joint Venture / Consortium / <u>M&amp;P Integrator</u>	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.
104	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, PRO-FORMA SECTION 2 - Clause 9, page no. 168	Does section 2.....	Format of Power of Attorney for M&P Integrator is not clear in Tender	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.
105	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, 17a, page no.-169	Have you (each Constitute....)	Request you to add underlined word (each constituent member of the Joint Venture/Consortium and the sub-contractor for M&P, <u>M&amp;P Integrator</u> if applicable)	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.
106	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, 17b, page no.-169	(Use a separate sheet...	Request you to delete this clause.	Tender Conditions prevail.
107	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, ANNEXURE 1A : SUMMARY....., page no.-173	Name of the Applicant (each member...)	Please add underlined text as : Name of the Applicant (each member...and sub contractor and <u>M&amp;P Integrator</u> )	Kindly refer definition of Bidder in Clause 1.1 of Eligibility Criteria (Part-1). Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
108	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, ANNEXURE 1A : SUMMARY....., page no.-173	Remarks: Bidders shall submit certificate on letterhead of the owner indicating details of scope of works of M&Ps.	Bidders shall submit certificate on letterhead of the owner indicating details of scope of works of M&Ps. Request to replace word "certificate on letterhead" with "Purchase Order"	Tender Conditions prevail.
109	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, ANNEXURE 2, page no.- 174	Name of the M&P	We understand column no. as 2.1.	please refer corrigendum II B
110	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, ANNEXURE 2, page no.- 174	Estimated completion date	We understand that column no. 11 is last column on this page. (A typo error in document & we can not view the complete content on page no. 174) Please clarify.	It is clarified that the complete content of Column 11 is "Estimated Completion Date"
111	1	III	Evaluation & PQ Criteria, ANNEXURE III-A, PRO-FORMA SECTION 4, Clause 19, page	enclosed at Annexure 3	Please delete word "Annexure 3", Resume Format is already mentioned in Form PER-2, page 89 of part 1.	Tender Conditions prevail.
112	1		ANNEXURE IVA- Instruction for completing Pricing Document, A3, A.3.1, page no.-188	Quantity Variation condition	Quantity variation shall be mutually agreed between both the party.	Tender Conditions prevail.
113	1		ANNEXURE IVA- Instruction for completing Pricing Document, E. MILESTONE ...., page no. 190	The..... The Monthly cash....Document.	Please delete statement "The Monthly cash....Document" as Form 12 is deleted.	please refer corrigendum II B
114	1		ANNEXURE IV B- Pricing Documents, page no.-212	Cost Center-H	Is Operation service only for 3 systems?? From when 24 Months operation service will considered? What operation services will be in Contractors scope??	please refer corrigendum II B

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
115	1		ANNEXURE IV B- Pricing Documents, Cost Center - I, Notes 5, page no.-214	5. Contractor shall submit detailed plan for comprehensive AMC at least 12 months prior to expiry of Defect Liability Period.	Refer Column Weeks for completion of Milestones from Commencement date for MIHAN depot. & Refer Column Weeks for completion of Milestones from Commencement date for HINGNA depot. Delivery Requirement is too stringent, Herewith we request you to reconsider the delivery requirements relating to Cost <b>Center A to I</b>	Tender Conditions prevail.
116	1		ANNEXURE IV B- Pricing Documents, Cost Center A to I, Page no.-196-214	Delivery Requirement	Under Column Description request to delete word <b>1 set</b> , as it already mentioned under column Unit.	Tender Conditions prevail.
117	1		ANNEXURE IV B- Pricing Documents, Annexure I, cost center , SN B5.2, page no.-201	Diameter Measuring Device – 1 Set	We understand that list is Complete.	It is clarified that the List of B5 items comprises of 4 Items, viz; B5.1, B5.2, B5.3, and B5.4, as mentioned in the specifications.
118	1		ANNEXURE IV B- Pricing Documents, Cost center-I, page no.-213	Cost center-I Table	Is 5 years apprehensive maintenace contract is optional?? If optional, will this cost will be considered for bidding award or not??	It is clarified that, the 5 Years Comprehensive AMC is mandatory and will be considered for commercial evaluation. Tender conditions prevail.
119	1		ANNEXURE IVC- Requirements for Bidder's Technical Proposal, Refer Column Max speed, page no.-227-228	Printing Error	We request to replace word.....submit "performance certificate" on letterhead of the owner by "Purchase Order Copy"	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
120	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP001,c lause no.-2.15	Technical Alternative	This clause shall be added in all remaining M&P equipments so that Contractor can provide best alternative equipments against the employer's requirement.	please refer revised part-2 (corrigendum II-C).
121	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP001,c lause no.-2.3.2	Provision by other contractors:The Plant shall also include the following provisions, which will be provided by other Designated Contractors to the Washing Plant Contractor for integration into the Plant. 2.3.2.1 Underground Water Tank 2.3.2.2 Used water collecting tanks 2.3.2.3 Track work 2.3.2.4 Over headline 2.3.2.5 Drain points and pipes for effluents discharged to the Effluent Treatment Plant of the Depot.	The interfaces (page 76, table 7-7) shall be defined in more specific manner to minimize the ambiguity in understanding of scope.	Important Interface Stages have been mentioned in the Specifications. The detailed Interface requirements will be reviewed during the Design Stage. Tender Conditions prevail.
122	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP001,c lause 2.3.2,	Provision by other contractors:The Plant shall also include the following provisions, which will be provided by other Designated Contractors to the Washing Plant Contractor for integration into the Plant. 2.3.2.1 Underground Water Tank 2.3.2.2 Used water collecting tanks 2.3.2.3 Track work 2.3.2.4 Over headline 2.3.2.5 Drain points and pipes for effluents discharged to the Effluent Treatment Plant of the Depot.	some more points should be added like: 2.3.2.6 : technical room for washing plant 2.3.2.7 : provide power in technical room 2.3.2.8 : prepare washing apron	It is clarified that: 1. Technical room for Washing Plant - M&P Supplier's Scope. 2. Provide power in Technical room - Other Contractors. 2.3.2.8 : Prepare Washing Apron - M&P Supplier's Scope.
123	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP001,c lause no.-2.6.2,2.6.3	Two pairs of vertical brushes, two on each side, shall be provided for water brushing on the car body surfaces.	We understand the machine is required only for side wash. Front and rear wash is not mentioned.	It is clarified that the ATWP is required only for Side Wash.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
124	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP001, clause no.-2.1.10	The brushes shall automatically retract to their gauges in the event of any malfunction or activation of emergency stop buttons	There could be possible power failure as well. For this function we need to have UPS.	It is clarified that NMRCL requires the feature - The brushes shall automatically retract to their gauges in the event of any malfunction or activation of emergency stop buttons. However methodology for compliance can be a part of Design review. Tender Conditions prevail.
125	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP002, paragraph no.- 2.4	"In addition, the layout of the plant shall be arranged to enable acid washing to be added at a later stage when it is found necessary. Space shall be reserved for the installation of an additional set of pre-wet station, a set of acid station and associated assemblies. The reserved space for acid station shall be at a minimum distance of 30m ahead the water brush station".	We should know if the acid station had to be equipped with a pair of brushes or only with a pair of spray poles. The solution we have chosen and indicated in the lay-out No. ELSGPJ098 (here attached) is a pair of spray poles.	please refer corrigendum II-B
126	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP003, para 2.6.3	Two pairs of vertical brushes, two on each side, shall be provided for water brushing on the car body surfaces. Each brush shall be integrated with a spray pole with simultaneous operation.	The lay-out No. ELSGPJ098 (here attached) shows two pairs of vertical brushes (two on each side) as indicated in the technical specification. Having analyzed the gauge shape, we suggest the installation of two groups of oval brushes (one on each side) + one pair of vertical brushes, instead of two pairs of vertical brushes. Each group of oval brushes is equipped with No. 4 brushes. As indicated in the file "Borders and indentation washing station" here attached, only these kind of brushes, thanks to their shape and rotation, are able to wash windows, doors recesses and/or every kind of angulations, border shape and/or vertical recesses of the coach.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
127	2	VII-B	Chapter-2 Automatic Wash Plant (Item Code)-NMRCLMNP004, para 2.8	"All the stations shall be enclosed by three sides with SS 316 L sheet of 3mm thickness."	The adoption of this type of splashguards is expensive and not necessary, based on our experience. We recommend protections to enclose the brush stations in "special" PVC cloth in different colors to choose and supported by robust hot dip galvanized and painted structures.	Tender Conditions prevail.
128	2	VII-B	Chapter-4 Under Floor Lifting System (Pit Jacks) Item code-NMRCLMNP003), clause no.-4.13,page no.134	RAMS (Reliability, Availability, Maintainability & Safety) Requirements: The Plant is expected to meet the RAMS target of 96% Availability, which will be calculated excluding the downtime planned for Preventive Maintenance Services. Standard Penalty will be applicable as per the Penalty Clause. Note: The bidder shall submit the complete technical detail of offered M&P for technical evaluation.	4.13 In the General Design Requirements you asked for >98% availability, but under 4.13 an availability of 96%. Please define what is correct.	please refer revised part-2 ( corrigendum -II-C).
129	2	VII-B	Chapter-4 Under Floor Lifting System (Pit Jacks) Item code-NMRCLMNP003), clause 4.11.3, page no.-133	An automatic lubrication system shall be provided in each pit to assure proper lubrication of equipment Spindle. All other moving parts shall be effectively lubricated by either oil or grease.	Request to add automatic lubrication / include lubrication cartdriges on lifting columns.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
130	2	VII-B	Chapter-4 Under Floor Lifting System (Pit Jacks) Item code-NMRCLMNP003), clause 4.6,page no-129	<p>Key Parameters</p> <p>The equipment shall comply with the following requirements on dimensions and tolerances:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Bogie Hoist lift 1.8m</li> <li><input type="checkbox"/> Body Stand lift Not less than 2.7m</li> </ul> <p>Note: The body Stand lift should match the Rolling Stock needs to hold the car body when maximum hoisting is done at bogie Hoist.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Bogie Hoist lifting speed -Not less than 0.4m/min</li> <li><input type="checkbox"/> Body Stand lifting speed Not less than 0.8 m/min</li> <li><input type="checkbox"/> Railcar track gauge 1435mm/ +3-0</li> <li><input type="checkbox"/> Bogie wheel base to be advised</li> <li><input type="checkbox"/> Auxiliary track capacity 170 kN/axle</li> <li><input type="checkbox"/> Main Track capacity with bogie hoists lowered 170kN/axle</li> <li><input type="checkbox"/> Gap between platform rails and shop rail 5mm</li> <li><input type="checkbox"/> Bogie Hoist level tolerance within individual bogie +/-3mm</li> <li><input type="checkbox"/> Bogie Hoist level tolerance within adjacent bogies +/-4mm</li> <li><input type="checkbox"/> Bogie Hoist level tolerance within two/three cars +/-5mm</li> <li><input type="checkbox"/> Body stand are not Synchronized.</li> </ul> <p>The jack equipment shall allow clearances underneath raised railcar for transport of dismantled bogie by electric bogie tractor. Minimum clearances shall be: * 3000mm wide x 1450mm high for bogie</p>	<p>Delete the line 3000mm wide x 1450mm for bogie tractor passage as not necessary</p> <p>The technical requirement of Pit Jack clearance passage of 1200 to 1400 mm is only to be decided depending on the Bogie height in dismantled condition which is in range of 1000 to 1200 mm for most Rolling Stock suppliers. The height of the Bogie height does not limit the height of the shunter as normally in the various depot the Bogie dismantled using Pit Jacks are pushed out/Rolled out manually as experienced and seen in various depots of DMRC.</p>	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
131	2	VII-B	Chapter-4 Under Floor Lifting System (Pit Jacks) Item code- NMRCLMNP003), clause 4.4.1,page no.127	Each bogie hoist shall be raised or lowered via 4 independent lifting columns or 4 lifting columns controlled by one centralized column of proven design. Lifting columns shall consist of a spindle-lifting element, a lifting beam, guiding box, one automatic following gap cover and associated electrical equipment. Two motors power the spindle lifting system via mechanical connection of the few lifting gears to provide absolute synchronization.	Replace Two motors power the spindle lifting system via mechanical connection of the few lifting gears to provide absolute synchronization.  With A gear motor power the spindle lifting system via mechanical connection of all lifting columns (in case of 4 lifting columns) to provide absolute synchronization. The correction necessary as spindle is operated by gear motor.	please refer corrigendum II-B
132	2	VII-B	Chapter-5 Mobile Lifting Jack- Code (NMRCLMNP004), clause no.- 5.3,page no.-140	Control Console The control console shall be mounted on a trolley for the ----- The control console shall be equipped with a plug for connecting all jacks through the socket on the floor at the central area of the two cars / four cars.	Please explain area of two cars/four cars in the following sentence: The control console shall be equipped with a plug for connecting all jacks through the socket on the floor at the central area of the two cars / four cars	please refer corrigendum II-B
133	2	VII-B	Chapter-5 Mobile Lifting Jack- Code (NMRCLMNP004), clause no.- 5.8,page no.-140	Synchronization controls: The jacks shall be provided with a leveling synchronization system ensuring the control and automatic correction ----- In the event of a PLC failure when the vehicle is lifted, the operator will have the option to lower the 4/8/12/3 Car Unit only, each jack stops on its lower limit switch. Only lowering is authorized in this mode.	Please delete 3 Car Unit because you have to use twelve jacks for a 3-car unit.	please refer corrigendum II-B
134	2	VII-B	Chapter-5 Mobile Lifting Jack- Code (NMRCLMNP004), clause 5.7,page no.- 140	Replace: The operation of the jacks in a group of four, eight, twelve or three unit only shall be controlled at the control console.  With: The operation of the jacks in a group of four, eight and twelve units only shall be controlled at the control console.	Replace: The operation of the jacks in a group of four, eight, twelve or three unit only shall be controlled at the control console.  With: The operation of the jacks in a group of four, eight and twelve units only shall be controlled at the control console.	please refer corrigendum II-B

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
135	2	VII-B	Chapter-5 Mobile Lifting Jack- Code (NMRCLMNP004), clause 5.6, page no.139	<p>Travelling Gear</p> <p>The jacks shall be mounted on 3-roller type travelling gears with steering wheels for one-man operation on the concrete floor. The travelling gears shall allow a minimum of 15mm clearance from the floor for movement of jack. Handles shall be fitted to the jacks for easy raising, lowering, steering and transporting the jacks. The jacks shall be equipped with ground-support monitoring devices to prohibit carriage movement when one of the jacks is still bearing on one of the travel wheels. The controls shall ensure that the synchronous lifting shall start only when all the jacks have touched the load pads and are ready for the lifting.</p> <p>The jacks shall be easily transported and safely operated on the flat concrete floor with a level tolerance of +/-5mm in any length of 2m.</p>	Please add flat concrete floor with tolerance of 0,3%.	Tender Conditions prevail.
136	2	VII-B	Chapter-5 Mobile Lifting Jack- Code (NMRCLMNP004), clause no.- 5.1.3, page no.- 137	Underground concealed cables in pre laid galvanized conduit pipes, which are for both power cables and control cables of the jacks, linking outlet socket points for the jacks and the console at a central area respectively for one set of jacks. The cable connecting jacks shall have connector at both ends.	5.1.3 Pre laid galvanized conduit pipes as well as pits for sockets must be provided by the customer according to OEM requirements. OEM will provide foundation layout in case of order. Further OEM standardly use one combined cable for power and control. Please accept.	It is clarified that laying of conduit pipes will be done by Depot Contractor as per the Layout / GAD provided by the M&P Contractor.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
137	2	VII-B	Chapter-5 Mobile Lifting Jack- Code (NMRCLMNP004), clause no.-5.5, page no.-139	<p>A carriage shall be mounted on each body. The carriage shall be fitted with a bronze nut guided by the lower rollers of the body running on sections added to the jack framework. The carriage shall be guided up and down the columns by plain and flanged rollers fitted with bearings. The guiding system shall stop any carriage longitudinal or transverse inclination, which may cause seizure or abnormal wear to the screw or to the nut.</p> <p>The shape of the contact heads shall be compatible with the jacking pockets of the rolling stock. The maximum deflection of the cantilever when laden shall not exceed 1/500 of the span.</p>	<p>This red sentence affect the design of the machine. For your clarification if we read "1/500 of the span" as "SPAN OF THE CANTILEVER ONLY" this means that OEM will design the Cantilever accordingly thinking also to have the cantilever disconnected from the jack. The customer during the FAT will measure the deflection of the cantilever only.</p> <p>On the other hand if we consider the cantilever in the highest position and that the deflection is a composition of deflections (deflection of the column + deflection of the cantilever) this means that i will design the jack column in order to reduce as much as possible its deflection in order to have a sum of deflections less than 1/500.</p> <p>As you can understand the second hypothesis is stronger than the first one. The jack will have, in the second situation, a structure 3 times bigger than the normal ones. How do we have to read the sentence??</p>	It is clarified that the clause mentions about delfection test of cantelever only.
138	2	VII-B	Chapter-7 Bogie Turn Table Code (NMRCLMNP006, clause 7.12	Maintenance access shall be provided for inspection and lubrication of center pivot and casters	In case of Maintenance free shield bearing, no access required for greasing.	Tender Conditions prevail.
139	2	VII-B	Chapter-7 Bogie Turn Table Code (NMRCLMNP006) clause 7.11	One operating lever shall be provided to each turntable for manual turning operation. An inbuilt provision shall be provided for storage of the levers in the turntable.	Provision for storage of operating lever in BTT is not feasible. Please delete	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
140	2	VII-B	Chapter-7 Bogie Turn Table Code (NMRCLMNP006), clause 7.4	Center pivot shall be provided and equipped with a self-aligning spherical roller thrust bearing to facilitate turning operation. Center pivots shall be designed to take up any horizontal loads.	Replace Center pivot shall be provided and equipped with a self-aligning spherical roller thrust bearing to facilitate turning operation With Center pivot shall be provided and equipped with a self-aligning Axial Spherical plane bearing to facilitate turning operation. "Axial Spherical plane bearing" is proven design for this application	Tender Conditions prevail.
141	2	VII-B	Chapter-7 Bogie Turn Table Code (NMRCLMNP006), clause 7.2	The turntables shall be constructed of circular platform decks with approximate 3500 mm in diameter for SG. The decks shall sit on center pivots at the centers and castors on the peripheries for turning. Two pairs of rails of specified gauge shall be mounted and positioned in perpendicular to each other across diameter on the deck of each turntable to accommodate bogies. The track gauge shall be 1435mm for SG as specified for particular workshop site.	7.2 – Steel blocks rails instead of 2 pairs of rail.	please refer corrigendum II-B
142	2	VII-B	Chapter-7 Bogie Turn Table Code (NMRCLMNP006), clause 7.1	The turntables shall be designed for rollover of Rail Car and bogies from one track to another track in the Bogie Shop area. Each turntable will consist of a mechanical assembly bearing on a centre pivot and several carrier rollers running on a circular platform. Rotary movement through 360° and locking in two positions will be undertaken manually, and depending on the load, operation will require up to one persons to rotate the turntable in the loaded condition. The structural design of each turntable shall withstand the weight of 25 Ton, and other forces from movement of rail car, bogie and other workshop vehicles.	Replace 7.1 Each Turn Table shall with stand weight of 25 Ton. With 7.1 Each Turn Table shall with stand rolover capacity of 25 Ton in place of weight of 25 Ton.	Tender Conditions prevail

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
143	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 1.1, SN 2, NMRCLMNP002 : CNC...	CNC Under Floor W heel Lathe with Synchronized Shunting System (UFWL)	We understand that Under Floor Wheel Lathe's synchronization is required with NMRCLMNP009 : Battery Operated Rail Cum Road Shunter (For 3 Cars) (BORRV), Kindly Clarify Also please clarify specific Shunter requirements for wheel lathe if any. For eg. Due to safety reason this shunter will have maximum speed of 3km/h only.	please refer corrigendum II-B.
144	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), NMRCLMNP002 : 2nd last	The layouts given on the Drawings shall be used for conceptual purposes. The Contractor shall furnish their requirements in accordance with the Schedule of Key Dates in the Particular Specification.	Please specify the drawings, We understand no drawings are provided w.r.t. UWL	please refer corrigendum II-D
145	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002)	Equipment shall incorporate means of adjustment in order to allow for building movement and concrete beam deflections. The maximum expected movement of any section of any building will be □25mm vertically, □25mm longitudinally and □25mm laterally.	Machine is not designed to compensate building movements. This is subject of proper civil engineering.	Tender Conditions prevail.
146	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), GENERAL DESCRIPTION	Work related to the production of the equipment shall comply with the relevant European Standards, Codes of Practice and latest statutory requirements of India including the following:	Listed Standards are not available. Machine is designed in accordance with CE-Standards.	The Standards are Listed oin chapter -3 of technical specification . Hoeover, other equivalent International Standards are acceptable.
147	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), GENERAL DESCRIPTION	The contractor shall closely study the ambient condition of ----- with special attention, like high temperature reaches up to 50 degree C within the covered shed,	50° C requires additional air conditioning for cabinet and control console.	It is clarified that the arrangement for provision of Air Conditioning for the Cabinet / Panels / Control Console, if required for compiance, will be in the scope of the M&P Contractor.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
148	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), GENERAL DESCRIPTION	heavy dust and poor quality of water and shall suitably consider for such consideration during design of the equipment.	Environmental conditions are not clear: humidity, level about datum line etc.	It is clarified that the Track Level will be on 303 Mts above mean sea level. Max. Humidity is 88%, Min. Humidity is 20.7%.
149	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), GENERAL DESCRIPTION	Equipment design shall take into considerations of fire protection, elimination of dust and dirt by means of suitable traps or the like, minimum maintenance requirements and ease of access for cleaning, routine maintenance and general disassembly.	Does this requirement means to add Exhaust fans and Halogen-free cables to meet the criteria?	Tender Conditions prevail.
150	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 3.11	All data in concern with the rolling stock written in this specification is for information only and there may be slight variations.	Drawings not available. Final version pending.	It is clarified that the NMRCL SOD may be referred presently. Final Drawings will be made available at the Design Stage.
151	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002). 3.2	Reference data of track; Max Gradient and Curve Radius	Track must be leveled, without curve and without gradient next to the machine; min. the longest vehicle length.	Confirmed.
152	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 3.4.1	Operating Condition: It shall be capable of machining wheel mounted brake disc or axle mounted brake disc in situ and otherwise, For this, exact & complete arrangement shall be provided during detail design stage. The tenderer shall describe details of machining procedure for brake disc machining of both the faces of discs. Machine shall be capable of machining the inside faces of the wheels in continuation of the profile turning of the wheel tread	Is Employer requirement that machine capable for Machining the wheel mounted brake disc without dismantling the brake caliper from Axle / wheelset.	Confirmed.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
153	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.4.1	In addition, it shall also be capable of re-profiling wheel sets removed from the coaches by means of suitable holding down devices	For running / Trailer car wheelsets, machine is capable to do. For Motor wheelsets additional support may required based on design of gearbox and motor wheelset.	It is clarified that Re-Profiling of lose Wheel Sets of only Trailer Coaches is desired.
154	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.4.6	The fully automatic CNC under floor wheel lathe shall be capable to perform, even without the integration of the shunting electric shunter.	Hold down claws are to be moved manually and Shunter to be offered or not?	It is clarified that the Operation of Hold Down Cylinders is effected manually through Push Buttons. Sunter is being procured separately. It is not a part of Wheel Lathe supply.
155	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.5	Machine control: (VIII) Data exchange with wheel sets management database.	Further details of wheelset management database to be provided.	It is clarified that as of now NMRCL does not have Wheel Set Database Management System. Machine should have provision for possibility of incorporation at a later stage.
156	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.6.7	_____ e.g. wheels with heavy wear, normal wear and others like profiling flat tread, brake disc, only flange, <b>tread with or without the flange</b>	It can not be without Flange, How shall these wheelsets be moved on track?	please refer corrigendum II-B
157	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.9	<b>Machine configuration.</b> The machine shall comply with the configurations as mentioned in P.S	What is P.S? Not mentioned	As per Clause 3.9, nowhere it is mentioned as P.S. No change in specifications is foreseen.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
158	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.10.1	The wheels shall be positioned for re-profiling shall run on their flange on mobile retractable rails (hydraulically actuated & operation interlocked with the vehicle movement from the machine control panel).□	Replace: Hydraulically actuated with Hydraulically actuated / Electrically actuated	please refer corrigendum II B
159	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.10.2	<b>3.10.2 Axle centering</b> <b>During centre less profile turning</b> Irregularities in the wheel treads may be flats, thermal cracks, splits or out-of round areas. All these faults should be corrected in a single machining pass with minimum tool wear/damage.	At least Two machining passes necessary to obtain accuracy.	please refer corrigendum II B
160	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.11.1	The machine shall be capable of turning-----the chips that are yielded from the machining process shall not exceed 300 mm in length before entering the chip crusher.	This is out of responsibility of supplier as it is dependent from cutting conditions, type of inserts (buyer to determine according to his conditions), wheel material etc.	Tender Conditions prevail.
161	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.11.4	Each tool-holder carriage shall be fitted with a spare tool-holder. Interchanging tool-holders shall not require readjustment of the machine.	Space intensive requirement; can not be complied with.	Tender Conditions prevail.
162	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.13	<b>3.13. Machine Performance Requirements</b> After wheel machining, the difference between the profile obtained and the theoretical profile should not <b>exceed 0.1 mm</b> on the wheel tread and the active side of the flange.	After wheel machining, the difference between the profile obtained and the theoretical profile <b>should not exceed +0.2mm on the wheel tread and the active side of the flange.</b>	tender condition prevails

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
163	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.13.1	<b>Chip Disposal;</b> An integrated chip crusher of proven design shall be provided to crush the chips produced from turning the wheels to small chips with a maximum length of 100mm.	An integrated chip crusher of proven design shall be provided to crush the chips produced from turning the wheels to small chips <b>with a maximum length of between 40 mm (80 %) and 500 mm (20 %).</b>	Tender Conditions prevail.
164	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.13.1	The noise level shall not exceed 75 dBA thresholds at the operator	The noise level shall not <b>exceed 80 dBA thresholds</b> at the operator	Tender Conditions prevail.
165	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.4	<b>Pressure sensors</b> shall be installed on the drive roller-holder sliding block supply piping. Sensors shall be connected to the converters, <b>which shall indicate the load in tons</b> with a precision to within two decimal points.	The international <b>accepted unit kN or N</b> instead of tons.	Load indicated in Tons or equivalent kN is acceptable.
166	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.5	<b>Lubrication:</b> Arrangement shall be provided to indicate failure of the lubricating system and displaying the adequate information on control panel for the operator and protecting the machine. i. Periodicity of cleaning / replacement of filters ii. Periodicity of replenishing lubricating oil in the sump iii. Other necessary information. If it endangers the safety of machine, the operation shall stop. The lubrication system shall be explained in the bid with a lubricating diagram. Indian equivalent of lubricant & hydraulic shall be advised.	Request for deletion	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
167	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.7	The CNC shall be built to satisfy the technical specification. <b>The workstation touch screen of each side is proposed to be minimum 15" LCD or better.</b> There should be redundancy in operating the system from <b>each side.</b>	Request for deletion: The workstation has neither a touch screen nor are two available.	Tender Conditions prevail.
168	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.7	iii. Non-resident diagnostics (test bands which may be loaded in the equipment to locate a defective card),	Request to not include.	Tender Conditions prevail.
169	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.7	v. Access to the various BUSES for connection of an analyzer.	Request to not include.	Tender Conditions prevail.
170	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.7	iii. Operation running cycles and sequences shall be displayed in real time and in plain English language on screen pages. A screen page per operation (setting up of an axle, measurement, machining, etc.) shall be provided.	Request to not include.	Tender Conditions prevail.
171	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.8	The circumferential speed of the drive rollers (cutting speed of the tooling) is proposed to be adjustable from 10 to 120m/min for wheel machining. Tenderer shall propose speeds as per their design to meet the specified output. The maximum cutting load for each wheel shall be <u>2,000 daN</u> .	Replace with 15 KN.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
172	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.9	An Ultra Isolation Transformer with Automatic Servo Voltage Stabilizer of suitable capacity, according to the machine load shall be provided along with machine to stabilize the input power in particular the fluctuation of the voltage of the incoming supply.	On line uninterruptible power supply (UPS) shall be provided to maintain a continuous supply to equipments like CNC/ PLC processors and MMI etc.	Tender Conditions prevail.
173	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.10	Panels shall be provided for control and monitoring of the machine from each side and shall be sized to take environmental conditions into account. There should be redundancy in operating the system from each side. The panels shall be dust & water splash tight & the ambient temperature outside may go up to 45 deg. C. The IP level for the control panel shall be at least <b>IP55</b> .	Request for redundancy in operating the system for each side and IP class for control panel IP54.	Tender Conditions prevail.
174	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.10	The front panel shall be fitted with three indicating lights for the three incoming phases of power supply, lit when power on.	Request for delete.	Tender Conditions prevail.
175	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002)3 .16.15	<b>Data processing Equipment</b> <input type="checkbox"/> 102-key keyboard. <input type="checkbox"/>	Request for delete.	Tender Conditions prevail.
176	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code-NMRCLMNP002), 3.16.15	<input type="checkbox"/> Windows latest version <input type="checkbox"/>	Request for delete.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
177	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 3.16.16	A centralised and automatic lubrication device, with pressure and flow control for each lubrication point and display of faults on the numeric control system screen, shall lubricate the maximum number of moving components. Non- centralised lubrication points shall be located so that they do not call for the removal of any components to obtain access.	Request for delete. Centralised Lubrication device shall not be considered as mandatory requirement.	Tender Conditions prevail.
178	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 3.17.1	Fully automatic CNC under floor wheel lathe shall be provided with alarm system in case of water flooding in underground sump with subsequent operation of the float operated sump pump along with flexible drainpipe for 40m approx from the pit, which shall be provided by the contractor.	Request for delete.	Tender Conditions prevail.
179	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 3.17.3	Fire protection- on the basic body of the machine, the design parameter of electrical installation shall be in safer range to protect from fire.	Request for Delete	Tender Conditions prevail.
180	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 3.19.1	Painting: The following shall be provided: - one polyurethane primer coat (thickness 40 microns dry), two polyurethane lacquer top coats, thickness 50 microns dry each. Paint touch-ups shall be provided after assembly.	one primer coat (80 µm) - one finish coat (40 µm)	Tender Conditions prevail.
181	2	VII-B	Chapter-3 CNC Under Floor Wheel Lathe (Item Code- NMRCLMNP002), 3.20	The Plant is expected to meet the RAMS target of 96% Availability	95% according to VDI 3423	Tender Conditions prevail.
182	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information: Number of roads and distance between them inside the depot	please refer corrigendum II-D

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
183	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information: Number of platforms to be installed and part of the technical specification where is written	It is clarified as per the Technical Data that 11.1 the Multi Purpose Works Station has two Platforms, RWP and TDC over a length of 70 Mts. It is further clarified that RWP is movable and TDC is fixed.
184	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information: Number and Dimension of the columns of the building and distance between the columns in the two directions ( 90° of the roads and along the roads)	please refer corrigendum II-D
185	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information: Fixing of the platforms to the columns of the building is not clear	please refer corrigendum II-D
186	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information: Span between the columns not indicated. In case will be 5m no problem but in case will be more, how will be fixed the modules to the columns.	please refer corrigendum II-D
187	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information: Span between the columns not indicated. In case will be more, who will install the necessary steel support for the modules ( NAGPUR METRO OR BERTOLOTTI). Do we have to add to the price?	please refer corrigendum II-D
188	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information: In the central part of the roads, if any, who will install the additional structure to support the platforms? Please refer to all the green structures in the drawing " sezione"	please refer corrigendum II-D

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
189	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), General		Missing Information:Shape and drawing of the train, confirmation of the length to be checked with the tables that are in the specification	SOD may be referred presently. Final Drawings will be made available at the Design Stage.
190	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code-		Missing Information:Drawing of the depot or concept of the depot	please refer corrigendum II-D
191	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), 11.1		if you look to the attached drawing "SEZIONE" you can see the two heights of the platforms ( 3605 and 1200). From our first analysis should be more correct to consider 3330 and 1000	tender condition prevails
192	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), 11.1	Roof Working Platform (RWP) with train Driver Catwalk (TDC)	TDC ( train driver catwalks) are the lower platforms? Are they fixed or movable as the others?	It is clarified that the TDC are the Lower Platforms which will be fixed. Only the RWP will be movable.
193	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), 11.2	Elevated Tracks	As understand Elevated track is out of scope.	Yes elevated track is out of scope of M&Ps supplier. Kindly Refer corrigendum II C.
194	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), 11.6.4	11.6.4 Movable Fall Down Protection at front and rear of RAP	How long shall be the stroke of the movable fall down protection (5 m ???)	It is clarified that the stroke of the movable fall down protection will be 3 Mts.
195	2	VII-B	Chapter-11 Multiple Purpose working Platform Item code- NMRCLMNP011), 11.6.4	11.6.4 Movable Fall Down Protection at front and rear of RAP	How many train configuration set shall we consider?	It is clarified that One 3 Car Unit Train (approx. 70 Mts) to be considered.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
196	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A)	General	our experience would lead us to say that it is not appropriate to have a versatile vehicle for multiple applications, as it is the case here with 2 CMVs which would have equipment for Mechanical / Infrastructure and Electrical Departments of NMRC.	Tender Conditions prevail.
197	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A)	General	we do not understand why the 8-wheeler CMV should be supplied with rescue equipment and re-railing equipment all the more we see that there is a separate requirement for a rail/road rescue vehicle with re-railing equipment.	Tender Conditions prevail.
198	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A)	General	we are of the opinion that mixing rescue/re-railing equipment with catenary maintenance activities may not be advisable as the workers will be coming from 2 different services, and the staff of a service may not pay much attention to the equipment intended for another service, with possible hazards of damaging some equipment	Tender Conditions prevail.
199	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A)	General	we don't advise to have track measuring and ultrasonic equipment to be transported on a catenary vehicle, but if the customer insists, please note that we manufacture portable units that could serve the purpose.	Tender Conditions prevail.
200	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A)	General	We can supply a hand-pushed measuring unit for track geometry parameters and a hand-pushed unit for dual rail ultrasonic inspection. These units should be conforming to NMRC requirements. The track geometry unit can be transported in a case and the ultrasonic unit can be dismantled. Therefore, if customer insists, the 2 units can probably be loaded onto the platform of the vehicle.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
201	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A)	General	Please see whether NMRC can accept to delete the requirement for rescue equipment on the 8-wheeler CMV and also can accept 2 separate hand-pushed units for track geometry measurement and for ultrasonic measurement	Tender Conditions prevail.
202	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A),9.15	Rescue equipments	Request to delete the requirement of rescue equipments in CMV vehicle and include this as separate rescue vehicle as separate clause.	Tender Conditions prevail.
203	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A),9.7	Brake System	Request for change--- " brake cylinders" instead of "brake blocks	please refer corrigendum II-B
204	2	VII-B	Chapter-9 CMV Item code-NMRCLMNP008-A),9.11	Working Platform	Request for change--- " telescopic " platform instead of a " scissors " type and that the platform can pivot instead of translating.	please refer corrigendum II-B
205	2	VII-B	Chapter-10 Battery Operated Rail Cum Road shunting vehicle (Item code-NMRCLMNP009, 10.8	Earthing Battery Operated Road cum Rail Shunting Vehicle body shall be electrically bonded to rail potential	In case of rubber tyre, electrical earthing bonding may not possible. It may require additional attachment/short circuiting device added the wheel.	Tender Conditions prevail.
206	2	VII-B	Chapter-10 Battery Operated Rail Cum Road shunting vehicle (Item code-NMRCLMNP009, 10.5.14	Special attention shall be drawn to the following points for the design and manufacture of the tractors: - Operational safety,	For operational safety feature, Shall track occupancy information is required for signalling purpose or not.	It is clarified that the Battery Operated Shunter is for the use within the Depot, Track occupancy information is not required.
207	2	VII-B	Chapter-10 Battery Operated Rail Cum Road shunting vehicle (Item code-NMRCLMNP009, 10.5.5	The driver"s desk design shall be such as to facilitate easy access from both sides of the Shunter.	Higher capacity shunter do not have access from both side.	tender condition prevails

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
208	2	VII-B	Chapter-10 Battery Operated Rail Cum Road shunting vehicle (Item code-NMRCLMNP009, 10.5.3	The roof-mounted cabin shall have all around visibility made from 2-3 mm thick stainless steel. Cabin shall have sufficient inside height with suitable illumination. It shall have at least 2 lockable doors, safety glass and screen wipers. The cab itself shall have several grips for the operator to hold on.	Generally it is not Stainless Steel, Can confirm if it is mandatory or optional	Tender Conditions prevail.
209	2	VII-B	Chapter-10 Battery Operated Rail Cum Road shunting vehicle (Item code-NMRCLMNP009, 10.5.10	. Emergency Stop push button shall be provided in all four corners of the vehicle.	Button should be provided on all for corners or side of the vehicle	Depending on the size and Design of the Shunter, number of Emergency Stop Push Buttons may vary. This can be a part of the Design Review.
210	2	VII-B	Chapter-10 Battery Operated Rail Cum Road shunting vehicle (Item code-NMRCLMNP009, 10.6.7	The Battery Operated Road cum Rail Shunting Vehicle shall preferably have provision for regenerative braking system in the braking mode of the vehicle.	Its shall be optional not mandatory. Request to change/delete the clause.	It is mentioned in the specifications that regenerative braking system is preferred. It is not mentioned that it is mandatory.
211	2	VII-A	: EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 1.1.2	General Description of the Works----- Comprehensive Annual Maintenance Contract for a period of 5 (Five) Years After DLP and Operation of the M&Ps for a period of 2 (Two) years.	Does this means 2 Year DLP + 5 Years maintenance after DLP, So total 7 Years of contractual scope	Bidder understanding is Correct. 2 Years DLP + 5 Years AMC
212	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 1.4.2	While designing and selection ----prevalent in Nagpur area and the same shall therefore be suitably considered during design.	Detail overview of climatic condition of Nagpur shall require to describe.	It is clarified that the Max. Ambient Temperature in Nagpur is 50 Deg. C. Max. Humidity is 88%, Min. Humidity is 20.7%. Corrigendum will be issued.
213	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 1.6.3	During the preliminary design phase, the Contractor shall submit a consolidated list of all the standards that he intends to use for the design, manufacturing and testing and other phases of the Contract, for review of the Engineer.	Replace with-Specific to Equipments related standards and codes shall be furnished on request of employer.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
214	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 1.8.1	Warranty (Defect Liability) Period shall start from the Date of Commissioning of last M&P upto 24 months.	Replace with- Warranty (Defect Liability) Period shall start from the Date of successfully Commissioning of individual equipment supplied in M&P scope.	tender condition prevails
215	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 1.8.4	In all such cases, warranty will be applicable on complete sub-assembly; even when only component has been modified/replaced/repaired due to design change.	Replace with : In all such cases, Warranty will be applicable on component which has been modified/replaced/repaired. Vandalism case shall exclude from this clause.	Tender Conditions prevail.
216	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 1.8.5	All replacement and repairs under the warranty shall be carried out by the Contractor promptly and to the complete satisfaction of the Engineer on notification of the defect by the Engineer / Employer so that no Equipment is unfit for service for more than 48 hours. In case of any Machine remains out of operation beyond specified duration above 48 hours, due to reasons attributable to Contractor, Engineer/Employer may at his sole discretion impose a penalty on the Contractor, commensurate with the revenue and opportunity loss to the Employer. Decision of Employer shall be final and binding.	Terms require to be relaxed for M&P equipments as machine's operations are not continuous and when it shall require, it shall perform the operation, failing to this employer at his sole discretion decide to impose penalty condition. Replacement for parts which are in stock/to procure from offshore can not be arranged within 48 hours.	Tender Conditions prevail.
217	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 2.1.3	Table 2-1 Sr. No-14 -Service trails protocol	Request to delete Service trail protocol shall not apply to M&P equipments. Also no criteria defined for service trails.	please refer corrigendum II-B
218	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 2.6.4	Responsibility of Quality Control during --- and DLP shall solely rest with the member of the consortium based on which the consortium / JV got qualified.	With - DLP shall solely rest with M&P Integrator / member of the consortium based on which the consortium / JV got qualified.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
219	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 4.2&4.2.5	IT requirement of Employer	Not understood clearly. What is the expectation from Contractors.	Please refer to Chapter 4 & 6 of General Specification (Section VII-A), which is self-explanatory.
220	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 6.2.2	SIL level of all software used in different sub systems shall be defined and certified.	Replace: This condition should not apply for M&P equipments. Request to delete.	tender condition prevails
221	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 6.6.1	Para-3, It shall be possible for NMRCL to modify / change various parameters / logics used in the software and implement the changes on M&P. Full facilities including any software / hardware tools, simulation / test bench which are essential for this purpose shall be supplied	Access for modifying/changing of Propriety software of OEM can not be provided. However copy of software will be provided for operational and maintenance. Employer shall furnish the details of tools, simulation/ test benches which they expect for M&P equipments.	The clause clearly defines that it shall be possible for NMRCL to modify / change various parameters / logics used in the software and implement the changes on M&P. Access for modifying / changing of Propriety software of OEM has not been requested. Tender Conditions prevail.
222	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION,	All software(s), irrespective of contractor's own software-----compatibility with new version of Windows for at least a period of 5 years beyond DLP of the last <b>train</b> .	To be deleted. Applicable for RST.	please refer corrigendum II-B
223	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 6	Software Management and Control	Wherever applicable user software will be provided. Development / design software tools which propriety of manufactures will not be the part of supply.	Please refer to Chapter 4 & 6 of General Specification (Section VII-A), which is self-explanatory.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
224	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 8.9.2	The warranty period of mandatory spares, recommended spares or any other item / equipment delivered shall be: (i) either 24 months from the date of acceptance or (ii) upto expiry of the Defect Liability Period (DLP) whichever is later.	Warranty over mandatory spares, recommended spares delivered shall be 24 months from the date of acceptance / receipt of materials.  Request to delete (ii)	please refer corrigendum II B
225	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 8.11.4	Contractor shall not be permitted to remove any working / healthy equipment / components / sub-systems / systems from any of the train available at any of the depot.	Request to delete the clause. It is applicable for Rolling stock	Tender Conditions prevail.
226	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 8.12.7	In case the Contractor is unable to supply spares in accordance with Clause above, he shall furnish, free of cost to the Employer, the drawings, specifications, and other technical details, to enable the Employer to manufacture parts, or have them manufactured. Such drawings and technical data shall be provided free of any charge or royalty, on the understanding that-----the Employer will use such data and drawings, only for the manufacture of parts for its own use.	Request to delete.	Tender Conditions prevail.
227	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION, 10.2.1	The Contractor will be provided, free of cost, approximately 200 sqm-----The structure shall be handed over to Employer after the completion of the Defect Liability Period (DLP).	Shall provided area in depot building with complete structure or not? What will be the office setup for Contractor after DLP and during CAMC.	It is clarified that, the area for Office Setup will be provided within the Depot premises. Exact location will be informed during the Design review stage.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
228	2	VII-A	EMPLOYER'S REQUIREMENT –GENERAL SPECIFICATION-Appendix -7, Interface,7.13.3	Table7-7 Sr. no-2,3,4,5,6 Interface requirement	Civil scope and interface responsibilities shall be furnished in details	It is clarified that all Civil Work related to the respective M&Ps will be in the M&P Contractor's (Bidder's) Scope. Important Interface requirements have been defined. Detailed Interface requirements may be specified by the M&P suppliers during bidding stage and the Design review stage.
229	2	VII-B	TECHNICALSPECIFICATION-Chapter-1, 1.2	Point-10- Any other work found necessary for the project to bring it to a satisfactory completion stage.	Please delete this clause.	Tender Conditions prevail.
230	2	VII-B	TECHNICALSPECIFICATION-Chapter-1, 1.2	Point-5- All civil foundation work related to Installation and Commissioning of M&Ps, as applicable.	We understand that civil works is under Depot Contractors scope. All requirements related civil construction will be provided by M&P integrator.	It is clarified that all Civil Work related to the respective M&Ps will be in the M&P Contractor's (Bidder's) Scope.
231	1	III	B. ELIGIBILITY CRITERIA 1.1 SN. 1	Minimum Number of Type of Machines from Schedule —All which the Bidder must have, supplied, Tested & Commissioned within last 10 Years. These 4 types should include at least one type of machine from Automatic Train Wash Plant/ Under Floor Wheel Lathe/Under Floor Train Lifting System.	We understood this clause as we have supplied, tested and commissioned at least 4 types of equipment out of 10 required items from the list. And from the 4 equipment at least 1 type of equipment shall be in the scope of Automatic Train Wash Plant/ Under Floor Wheel Lathe/Under Floor Train Lifting System.	Confirmed.
232	1	III	B. ELIGIBILITY CRITERIA 1.1 SN. 3	Minimum Number of Type of Machines from the above 4 Types of machines (SN-1), which the Bidder must have Supplied, tested & Commissioned Out Side the Country of Origin within last 10 years.	Our understanding is that bidder should have supplied total 2 types of equipment outside of the country of origin. Our proposal is that the bidder should have supplied, tested and commissioned minimum 1 type of equipment out of the country of origin within last 10 years, and quantity minimum 1.	Tender Conditions prevail.
233	3	IX	PCC, page no.111	Table: Summary of Section Key Dates	The given key dates are very much stringent. Request you to reconsider because it is very difficult to meet the given timeline of delivery.	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
234	3	IX	PCC, page no.165	In consideration of the Employer entering into the Contract with the Contractor, the Parent Company hereby undertakes to the Employer that, without the written consent of the Employer, it will not [and will ensure that none of the companies referred to in Recital (C) .	Kindly replace word "consent" with "information"	Tender Conditions prevail.
235	1	III	INITIAL FILTER EVALUATION CRITERIA. C. ASSESSMENT TOPICS T4	The minimum requirements to 'Pass' this criteria is that the Average Annual Turn Over for the last five financial years for M&P manufacture only (in terms of rupee equivalent adjusted to last date of the financial year that ended on or before 31.05.2016. by assuming 5% escalation for Indian Rupee and 2% for foreign currency per year) shall not be less than INR 2000 million.	Please confirm in case of Joint Venture / Consortium is it mandatory that all the members of the JV / Consortium should be a M&P Manufacturer.	please refer corrigendum II-B
236	2	VII-B	Automatic train wash plant 2.6.2.1	This station shall consist of one pair of vertical brushes (one on each side) with stainless steel spray poles, suited to clearing the lateral face of the trains, one pair of split horizontal brushes with gantry.	Please confirm whether one pair of split horizontal brushes with gantry required or not because the requirement Plant shall wash the lateral side of the coaches.	please refer corrigendum II-B
237	2	VII-B	Automatic train wash plant 2.4	"In addition, the layout of the plant shall be arranged to enable acid washing to be added at a later stage when it is found necessary. Space shall be reserved for the installation of an additional set of pre-wet station, a set of acid station and associated assemblies. The reserved space for acid station shall be at a minimum distance of 30m ahead the water brush station".	We should know if the acid station had to be equipped with a pair of brushes or only with a pair of spray poles.	please refer corrigendum II-B

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
238	2	VII-B	"Section VIIB - Technical Specifications" Paragraph No. 2.6.3. ' Water Brush Station"	Two pairs of vertical brushes, two on each side, shall be provided for water brushing on the car body surfaces. Each brush shall be intergrated with a spray pole with simultaneous operation.	The lay-out No. ELSGPJ098 (here attached) shows two pairs of vertical brushes (two on each side) as indicated in the technical specification. Having analyzed the gauge shape, we suggest the installation of two groups of oval brushes (one on each side) + one pair of vertical brushes, insted of two pairs of vertical brushes. Each group of oval brushes is equipped with No. 4 brushes. As indicated in the file "Borders and indentation washing station" here attached, only these kind of brushes, thanks to their shape and rotation, are able to wash windows, doors recesses and/or every kind of angulations, border shape and/or vertical recesses of the coach.	Tender Conditions prevail.
239	2	VII-B	"Section VIIB - Technical Specifications" End of paragraph No. 2.8	The water....and duct accessories. "All the stations shall be enclosed by three sides with SS 316 L sheet of 3mm thickness."	The adoption of this type of splashguared is expensive and not necessary, based on our experience. We recommended protection to enclose the brush stations in "special" PVC cloth in different colors to choose and supported by robust hot dip galvanized and painted structures.	Tender Conditions prevail.
240	2	VII-B	GENERAL DESIGN REQUIREMENTS, UFWL	Equipment shall incorporate means of adjustment in order to allow for building movement and concrete beam deflections. The maximum expected movement of any section of any building will be □25mm vertically, □25mm longitudinally and □25mm laterally.	How can equipment incorporated after manufacturing to building movement and concrete beam deflections.	The clause is self-explanatory. Tender Conditions prevail.
241	2	VII-B	3.4.2.1	Different vehicles of different weights/ axle load (within maximum specified) may have to be re-profiled. The machine should either automatically set different relevant parameters or the contractor shall furnish detail procedure for such adjustment to NMRCL and impart training to employer's staff to do such adjustment in the machine	You have to provide us max axle load to be offer right CNC Underfloor wheel lathe. Equipments prices are different for light weight axle load heavy axle. As you have mentioned 16 Ton axle load of rolling stock.	Maximum Axle Load is 16 Tons and defined in the NMRCL SOD, which may kindly be reffered to.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
242	2	VII-B	9.6	The vehicle will have a double cabin with enough space for carrying 10 persons. The cabin will ... both A/C and heater.	Cabin equipped with double steering console, one for each direction of the latter is usually the most logical solution.	It is clarified that Cabin equipped with double steering console, one for each direction is acceptable, however occupancy of 10 persons needs to be complied with..
243	2	VII-B	9.13	<p>The vehicle will have a measuring pantograph, insulated, calibrated and with precision potentiometer, IP65 protected, and with digital display in the cabin, to measure the height of the catenary.</p> <p>The actuator of the pantograph will be pneumatic, with pressure regulator.</p> <p>The pantograph will be able to measure both the lateral and the height deviation of the overhead line, which the driver will be able to check through a TV camera supplied with the system. This camera will be pointed at both the rails, and the video feed will be shown in a colour monitor in the driving cabin. It will also have a linear inductive detector in the pantograph which will continuously show in the screen the current height of the pantograph in real time, and will be able to either print the height profile in real time or store the measures in a computer memory.</p> <p>For the lateral deviation, the pantograph will feature a laser sensor which will provide accurate lateral deviation, also shown in real time in the driver desk screen and with the option to either print the lateral deviation profile in real time or store it in a computer memory.</p>	Laser sensor that provides an accurate level of "lateral move"... we do not expect this aspect with our pantograph system, while we give everything else required.	please refer corrigendum II B

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
244	1	III	Page No. 154 Clause 1.1	<p>The Sole Bidder (Manufacture/Authorised Representative or M &amp; P Integrator) or Consortium/ Joint Venture of Bidders must meet the following conditions:-</p> <p>1. Minimum Number of Type of Machiunes from Schedule "A" which the Bidder must have supplied, Tested &amp; Commissioned within last 10Years. These 4 types should include at least one type of machine from Automatic Train Wash Plant/ Under Floor Wheel Lathe / Under Floor Train Lifting System - <b>Qty - 4.</b></p> <p>2. Minimum Number of Each of the above 4 Types of Machines (SN-1) which the Bidder must have, Supplied, Tested &amp; Commissioned within last 10 Years - <b>Qty - 4.</b></p> <p>3. Minimum Number of Type of Machines from the above 4 Types of machines (SN - 1), which the Bidder must have Supplied, tested &amp; Commissioned Out Side the Country of Origin within last 10 years - <b>Qty - 2.</b></p>	<p><u>May be amended to</u> : The Bidder (Manufacturer or M &amp; P Integrator) or Consortium/Joint Venture of Bidders must meet the following conditions:-</p> <p><u>SN 1 May be amended to</u>: Minimum Number of Type of Machines from Schedule "A" which the Bidder must have supplied, Tested &amp; Commissioned within last 10 Years. These 4 types should include Automatic Train Wash Plant, Under Floor Wheel Lathe, Under Floor Train Lifting System and Battery Operated Rail Cum Road Shunting Vehical.</p> <p><u>Please Add SN 4</u>: Minimum Number of type of Machines from the above 4 Types of machines (SN-1), which the Bidder must have Supplied, tested &amp; Commissioned in India within last 10 years - 2</p>	Tender Conditions prevail
245	1	III	Page No. 154 Clause 1.4	<p>The bidder, if located outside India, shall have an Indian associate for Defects Liability Period and Post Defects Liability Period obligations. Such associate should have minimum 5 years of experience of Manufacturing/maintenance of Machines for Railways / Metros applications and providing satisfactory After-Sales Services. In support of the above, relevant certificates from their respective clients should be submitted and such documents shall be taken into consideration for technical qualification purpose.</p>	<p>The machines are critical and Special Purpose Machines. <u>Hence we recommended</u>: Such associate should have min. 10 years of exp. Of Manufacturing or Maintenance of such Machines for Railways / Metros applications and providing saticfactory After Sales Service in India. This experiance should include at least one type of machine from Schedule A.</p>	Tender Conditions prevail.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
246	1	III	Page No. 155 Clause 2.0	The sole bidder or Lead Partner of JV/consortium shall be fully responsible for Design, Manufacture, Supply, Installation, Testing and Commissioning of the Machines and Training of the Engineers and also for <u>coordinating</u> maintenance and After-Sales Services during DLP, O&M Documentations and AMC Period.	<u>May be amended to</u> : The sole bidder or Lead Partner of JV/consortium shall be fully responsible for Design, Manufacture, Supply, Installation, Testing and Commissioning of the Machines and Training of the Engineers and will be <u>responsible</u> for the After-Sales Services during DLP, O & M Documentations and AMC Period.	please refer corrigendum II-B
247	1	II	Section II - A: Bid Data Sheet - Tender Notice	Date & Time of submission of Tender	Considering the complexity of the tender requirements, request you to extend the Date & time of Submission of Tender online by 6 weeks	Any Change in the Bid Submission Schedule, will be advised through NMRCL e-tender portal.
248	1	II	Section II - A: Bid Data Sheet - Corrigendum 1	Last date of submission of pre-bid queries	We request you to relax this clause and extend the date by 2 weeks for submitting additional queries.	The last date of submission of Pre-Bid queries is over on 07.11.2016
249	1	III	Section III - Evaluation and Qualification Criteria - Clause No - 1.1	Conditions Minimum Number of Type of Machines from Schedule 'A' which the Bidder must have, supplied, Tested & Commissioned within last 10 Years. These 4 types should include atleast one type of machine from Automatic Train Wash Plant / Under Floor Wheel Lathe / Under Floor Train Lifting System	Please specify what is 'Schedule 'A'	please refer corrigendum II-B
250	2	VII-B	Works Requirement - Technical Specifications- Clause No. 4.4.3	Each body stand shall have a supporting pad for lifting railcar body at its jacking points. Each body stand consists of one spindle-lifting element, one lifting beam, one guiding box, one automatic following gap cover and associated electrical equipment.	Body Stand normally hold the train at a specific height while lowering / removing bogies under the lifted train. If the Body Stands need to lift the car body, the overall system will have additional commercial liability due to need of stronger motor type. In a regular system design the Bogie Lifter lifts the train.	Tender Conditions prevail

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
251	2	VII-B	Works Requirement - Technical Specifications- Clause No. 4.6	Key Parameters - The equipment shall comply with the following requirements on dimensions and tolerances: <input type="checkbox"/> Bogie Hoist lift 1.8m <input type="checkbox"/> Body Stand lift Not less than 2.7m Note: The body Stand lift should match the Rolling Stock needs to hold the car body when maximum hoisting is done at bogie Hoist. <input type="checkbox"/> Bogie Hoist lifting speed - Not less than 0.4m/min <input type="checkbox"/> Body Stand lifting speed Not less than 0.8m/min	Could you revise the requirements to max. 0.5m/min for the Body Stands lifting speed. Bogie Hoist and Body Stands lifting at the train at the same time ( synchronized). The requested lifting speed is unusual and requires stronger motor which unnecessarily increase the overall system cost. (up to 2.2kw in instead 0.25kw Motors)	Tender Conditions prevail
252	2	VII-B	Works Requirement - Technical Specifications- Clause No. 4.7.7	All floor covers shall be solid steel plates with a minimum thickness of 15 mm set flush with floor level. The surface of these cover plates shall be non-skid diamond pattern.	As per industry standard, 12/10 mm chequer plates are generally used. Can you revise the requirements accordingly.	Tender Conditions prevail.
253	2	VII-B	Works Requirement - Technical Specifications- Clause No. 4.9.11	A fault display panel shall be provide at the master control console. When a fault occurs, a buzzer on the panel shall sound and a lamp shall flash indicating the location and the nature of the fault. By pressing an acknowledge button, the buzzer shall become silenced and the flashing lamp shall become steady. After the fault is rectified, the display shall revert to the normal state by pressing a reset button.	Request you to consider following proposal: Our standard is, when a fault occurs. The fault lamp will blink and a buzzer will sound. Only when the fault has been clear then it can be reset. This Safety Function is mainly to secure the safe function of the overall system as protection of workshop staff and equipment.	Bidder understanding of fault clearance procedure is acceptable. However Fault Display Panel is required for fault indication as per tender requirement.
254	2	VII-B	Works Requirement - Technical Specifications- Clause No. 4.10.8	Main control panels shall be fitted with through door electrical isolation switches for the safety of maintenance personnel.	Request you to consider following proposal: We use standard Isolator for the main control panel and not the through door electrical isolation switches	Tender Conditions prevail

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
255	2	VII-B	Works Requirement - Technical Specifications- Clause No. 4.10.6	Overload cut-out devices shall be provided to protect the equipment against damages in the event of equipment being overloaded. Once any of the overload devices are activated, overload lights and buzzers on corresponding panels shall be turned on and all operation modes except lowering shall be prohibited. On removal of the overload, the jacks shall resume normal operation automatically.	Request you to consider following proposal: Motor protection is being used for each motor for overload and for each pit, the overall current is protected by fuse in the main control cabinet. As per the tender requirements, load cell needs to be installed in each individual Bogie Lifter. Only with a load cell in each Bogie lifter then we can know exactly the load and make conditions in the PLC program that when overload it can be only be lowered and cannot be raised. This will reflect in additional cost implications (load cell in every Jack) and software and mechanical design. please confirm	Overload Cut-out devices are for electrical overload protection.
256	2	VII-B	Works Requirement - Technical Specifications- Clause No. 6.4.6	Air leakage test : This shall be done automatically with each side individually. The information shall then be fed in the PLC of Bogie test stand.	Air leak test shall be done automatically. Yes this is possible, ONLY after you set up all other air connections manually first and press the button "start". Please confirm our understanding . Leak test cannot be automatic.	This understanding is correct.
257	2	VII-B	Works Requirement - Technical Specifications- Clause No. 6.6.4	The movement of Hydraulic Cylinder Ram shall be capable for lateral/horizontal adjustment to cover the specified parameters on the moving crossbeam to maintain accuracy within +/-0.1 mm. The vertical hydraulic cylinders shall be movable horizontally with spindle gear by hand. These shall be equidistant from the centre line of track and always move synchronously. Proper arrangement shall have of such type so that the said accuracy of the movement can be maintained over a long period. The position of vertical cylinders shall be shown by a scale on the horizontal beam of "Circulating Steel Structure" and also by display on PLC system.	"The vertical hydraulic cylinders shall be moveable horizontally with spindle gear by hand " - Can we use PLC controlled hydraulic motion. Please confirm	please refer corrigendum II-B
258	2	VII-B	Works Requirement - Technical Specifications- Clause No. 7.1	The structural design of each turntable shall withstand the weight of 25 Ton, and other forces from movement of rail car, bogie and other workshop vehicles.	Tender refers: Each Turn Table shall with stand weight of 25 Ton. As 25 ton is roll Over Capacity so instead of wording weight to be corrected to Roll Over Capacity 25T.	Tender Conditions prevail

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
259	2	VII-B	Works Requirement - Technical Specifications- Clause No. 7.4	Center pivot shall be provided and equipped with a self-aligning spherical roller thrust bearing to facilitate turning operation. Center pivots shall be designed to take up any horizontal loads	Request you to consider following proposal: As per tender Center pivot shall be provided and equipped with a self-aligning spherical roller thrust bearing to facilitate turning operation whereas as per proven design Center pivot shall be provided and equipped with a self-aligning Axial Speherical plane bearing to facilitate turning operation " Axial Speherical plane bearing" is proven designedfor this application	Tender Conditions prevail
260	2	VII-B	Technical Specifications- Clause No. 7.7	Automatic mechanical locking shall be provided and located at periphery of turntables. The tracks on turntable shall be aligned with adjacent embedded tracks when bogie turntables are in their locked position (4nos.) at any 90° of rotation. Locking arrangement shall be accessible with the bogies on the turntables for locking and unlocking operations.  Locking arrangement shall be flush with the shop floor level for both locked and unlocked positions. The locking bars shall not be removable from the turntables.	Request you to consider following proposal: Clause 7.7 Automatic locking. As it is totally mechanical therefore mechanical locking device is equipped in main BTT frame instead of Automatic locking and this design is well proven. Locking get engage in solts provided in Pit rings at 4 places at every 90 degree turning.	Tender Conditions prevail
261	2	VII-B	Technical Specifications- Clause No. 7.11	One operating lever shall be provided to each turntable for manual turning operation. . An inbuilt provision shall be provided for storage of the levers in the turntable	Request you to consider following proposal: Clause 7.11 - To delete this as provision for storage of operating lever in BTT deck is not technically feasible. Removable operating lever is provided and can be easily stored in the depot room in the workshop.	Tender Conditions prevail
262	2	VII-B	Technical Specifications- Clause No. 7.13	The turntable and related equipment shall be painted in Yellow colour of Polyurethane lacquer top coats and as per general specification. Paint touch-ups shall be provided after assembly.	Request you to consider following proposal: Clause 7.13 - As per depot equipment painting scheme / standards for moving / rotating equipments recommended in colour code RAL 1004 (yellow golden)	It is clarified that as per depot equipment painting scheme / standards for moving / rotating equipments recommended in colour code RAL 1004 (yellow golden), will be acceptable. However this can be a part of Design Approval.

SN.	Part No.	section No.	Clause no.	Bid Condition	Bidder's Queries	Response from NMRCL
263	2	VII-B	Technical Specifications- Clause No. 10.3.4	The shunting vehicle travelling under unloaded condition on the ground shall be capable of climbing 10% gradient over a length up to 20 meters.	Please clarify if this is necessary or can be minimized to 3% gradient. " 10.3.4. The shunting vehicle travelling under unloaded condition on the ground shall be capable of climbing 10% gradient over a length up to 20 meters. "	Tender Conditions prevail
264	2	VII-B	Technical Specifications- Clause No. 10.3.9	The machine shall have sufficient brake accumulator capacity or similar arrangement for additional braking support to avoid damages in case of failure of designated brake system while it moving with load.	Please clarify the actual specific requirement of this. "10.3.9. The machine shall have sufficient brake accumulator capacity or similar arrangement for additional braking support to avoid damages in case of failure of designated brake system while it moving with load."	It is clarified that fail safe braking arrangement is desired.
265	2	VII-B	Technical Specifications- Clause No. 10.5.4	Driver seats shall be provided on the Battery Operated Road cum Rail Shunting Vehicle seat facing forward with 360 degree visibility and maneuverability. The driver's controls shall match with orientation of driver seat .The driver seat shall be cushioned, preferably adjustable and with backrest angle adjustable	Driver seats shall be provided on the Battery Operated Road cum Rail Shunting Vehicle seat facing forward with 360 degree visibility and manoeuvrability." Driver seats of our Shunter are standard.	please refer corrigendum II-B