

**Annexure- A**  
**Reply to Contractual Queries of Prospective Bidders**  
**Synchronous Mobile Lifting Jack (Tender No. SML/JDSM/07)**  
(Ref: Pre-Tender meeting held on 19.06.2017)

Sl.No.	Tender Vol. No.	Clause No.	Original Text	Bidder's Queries	KMRC/GC Response	Addendum required	Addendum Reference
1	1	NIT Cl.8	<p><b>Minimum Eligibility Criteria:</b>  The Tenderer should be a reputed supplier/manufacturer of Synchronized Mobile Lifting Jacks used in railway rolling stock application and should have adequate capability to design and manufacture such Plant/equipment. Please refer to Appendix FT-3 to Form of Tender (FOT) i.e. Eligibility Criteria Document, for details regarding minimum eligibility criteria.</p>	<p><b>Minimum Eligibility Criteria:</b>  The NIT states that the "Tenderer should be a reputed supplier / manufacturer of Synchronized Mobile Lifting Jacks". It is further noted that the foreign bidders can submit their bid through an Indian associate company. However, there is no provision of Consortium bidding with Indian Company.  We feel that the bidding and execution will be much smoother in case the foreign bidder is allowed to bid in consortium with an Indian Company.</p>	<p>Not accepted. Consortium is not considered as a bidder for SML</p>	No	Nil
2	1	Appendix FT-3 to FOT Sl.No. 9	<p>Out of 7 sets of Synchronized Mobile Lifting Jacks, which the bidder must have supplied &amp; commissioned in last five years ending 31st December 2016, are at least 5 sets of Synchronized Mobile Lifting Jacks in operation outside the country of origin in last five years ending on 31st December 2016?  (The tenderer shall submit the complete information as per Form of Tender Appendix FT-3 Annexure-2.)</p>	<p>In this connection, please allow us to state that Mobile Lifting Jacks are very standard equipment used by railway companies all over the world. It is therefore, immaterial where or in which country the equipment is working.  We feel that the clause, as above, restricts the competition unnecessarily but bringing no additional benefit to KMRC — neither in terms of project cost nor with respect to technical superiority.</p>	<p>Cannot be changed. Eligibility Criteria Check List is common for all the depot machines to be procured by KMRC.</p>	No	Nil



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3	1	Appendix Ft-2 to FOT Annexure - B Note-2	The Rate/Unit to be filled in "Supply Part" above should be on DDP Shipment basis up to destination i.e. Central Park Depot, Kolkata.	<p>We have seen you have asked offer on DLP Central Park Depot, Kolkata basis.</p> <p>As we learnt as per Indian Customer Import procedure for purposes of custom clearance it shall require KMRC Importer Exporter No. details as well as the Declaration and Undertaking of customs to be signed by KMRC being the Importer of shipment for customs clearance.</p> <p>After custom clearance the equipment shall be delivered to depot site by suppliers Forwarder. KMRC can pay the applicable customs duty directly to customs authorities preferably.</p> <p>If however customs duty is to be paid by supplier then contract LC shall be opened for DDP Amount including Customs Duty is to be filled during offer submission. In such case as per clause C.6.1 bidder shall have to mention the customs duty rate applicable on the offered Mobile Lifting Jacks also in its offer as on date of offer submission to let KMRC know the included customs duty in offer.</p>	<p>The equipment is to be delivered on DDP (Delivered Duty Paid) Shipment basis, which means all the charges from Export Packing to Delivery to Buyer Destination are to be paid by the Seller as per the current edition of INCOTERM published by International Chamber of Commerce, 38 Court Albert 1<sup>er</sup> 75008, Paris, France .</p>	No	Nil



**Annexure - B**  
**Reply to Technical Queries of Prospective Bidders**  
**Synchronous Mobile Lifting Jack (Tender No. SML-J/DSM/07)**  
(Ref: Pre-Tender meeting held on 19.06.2017)

Sl.No.	Tender Vol. No.	Clause No.	Original Text	Bidder's Queries	KMRC/GC Response	Addendum required	Addendum Reference
1	3	1.5(m)	The Contractor is responsible for all civil/electrical works required for installation of the machine. Details of foundation, if any, and cable trench system shall be under his scope of supply. The Tenderer shall submit the detailed engineering drawing at the time of submission of tender bid.	Only Sample General Arrangements Drawings can be submitted at the time of submission of Tender. Further, Design Details will be submitted at the Design Review Stage to the extent possible.	Accepted.	Yes	1
2	3	3.9.2	<u>Noise Level</u> The noise level of the Synchronized Mobile Lifting Jacks during its operation shall not exceed 70 dBA when measured at a distance of one meter from the machine. Minor variation to above limits is acceptable on discretion of the Employer.	Please note that 70dB is very low at 1 meter. Standard noise measurement is done at a 10 meter and at 1.2 meter height from track centre. Kindly permit the same and modify the clause accordingly.	Not accepted at this stage. However, it will be considered at that time of Detailed Design Stage, if the Contractor is able to produce the relevant Standard in support of their contention.	No	Nil
3	3	8.2.1(d)	The operation training shall cover:- (d) Real time re-profiling of trains under supervision of the instructor.	The Real time re-profiling of trains are generally made for Underfloor Wheel Lathe and not in Mobile Lifting Jacks. Hence, kindly delete this clause.	Accepted. This clause is deleted.	Yes	2
4	3	2.1.7	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 mentioned in Appendix FT-1 to Form of Tender (Vol. 1 of Tender Documents).	Clause 2.1.7 says "Layouts given on the drawing shall be used for conception purposes". However we have not got any drawing in the tender documents. Kindly arrange to provide applicable drawings issued with tender.	Layout is attached as Appendix - I.	No	Nil
5	3	3.5.1	• Underground concealed cables in pre-laid galvanized conduit pipes, which are for both power cables and control cables of the Lifting Jacks, linking all the twelve Lifting Jacks of a set and the Control Unit at a central area. The cables connecting Lifting Jacks shall have connector at both ends.	As it is necessary to understand the layout of pre laid conduit pipes for estimating underground cabling required for the 3 workshop line in which cabling is asked in clause 3.5.1, Please provide drawing of all conduit pipes pre laid for Mobile Lifting Jacks placement on all 3 applicable workshop lines.	Please refer Appendix - I. It may be noted that SMLJ will work in two lines not in three lines as shown in Appendix-	No	Nil



Sl.No.	Tender Vol. No.	Clause No.	Original Text	Bidder's Queries	KMRC/GC Response	Addendum required	Addendum Reference
6			<p>As regards the power cables connecting mains isolator and the Lifting Jacks, the portion of the cables running on the ground shall be in concealed galvanized conduits. The mains isolator for the power cables shall be provided by Designated E&amp;M Contractor but sockets/ plugs etc shall be provided by the SMLJ Contractor. The SMLJ Contractor shall interface with the E&amp;M Contractor for the exact configuration of sockets and plugs and quantity.</p>	<p>Please provide the workshop Electrical drawing showing position of Electrical Main Power Connection available on all 3 workshop lines vis-a-vis Lifting Jacks area for each line for determining central control panel.</p>	<p>Please refer Appendix - I.</p>	No	Nil
7	3	1.4.1 (c)	<p>Supply of resources, materials, tools &amp; plants and manpower for manufacture, supply, installation, testing &amp; commissioning of the machine/equipment to meet the intended functions. The Contractor shall co-ordinate with Designated Civil Contractor for making fixing arrangements required, if any, to meet the intended functions.</p>	<p>4) We understand as per clause 1.4.1 (c) Suppliers shall provide the pit covers which shall be fixed by KMRC civil contractor with suitable fixing arrangement, please confirm.</p>	<p>All works related to installation shall be carried out by the SMLJ Contractor by interfacing with the Designated Civil Contractor.</p>	No	Nil
8	3	3.7.2	<p><b>Lifting Spindle &amp; Drive</b>  (a) The spindle shall be driven through a fully enclosed reduction gear running in an oil bath by a squirrel cage flanged brake motor designed to IP55. All motor and gear bearings shall be of roller type. It shall be placed at the top of the Jack frame. The motor and drive gear shall be easily removable without requiring dismantling of the Jack. The braking system of the drive motor of offered Lifting Jacks shall be explained in the offer.</p>	<p>As per clause 3.7.2 we understand you require well proven design with each Mobile Lifting Jack with robust single spindle (the spindle) driven by reduction gear fitted with a brake motor.  In this regard please confirm one Mobile Lifting Jack having two smaller spindles or driven by two smaller motors is not acceptable.</p>	<p>Each Mobile Lifting Jack with robust single spindle driven by reduction gear fitted with a brake motor as stated in PS Clause 3.7.2(a) is required.</p>	No	Nil
9	3	3.3.4	<p><b>Wire Identification</b>  All equipment wires shall be marked with a unique wire identification number by means of marker sleeves located within 50 mm of each end wire. In addition, the wire insulation shall be indelibly marked with the wire identification number at intervals not exceeding 0.5 m. The Contractor shall be required to demonstrate the permanence of the inking system. The identification numbering system will correspond to the wire identification numbering system used on the schematic drawings and wiring diagrams, and shall be approved by KMRC.</p>	<p>The wires will be marked with relevant ferrule type sleeves having suitable identifications as per the circuit diagram. Kindly delete or amend this clause as it increases the cost of Project, unnecessarily.</p>	<p>Partially agreed. Without the numbering it will not be possible to identify the cable from the circuit diagram. However, the lines "In addition, the wire insulation shall be indelibly marked with the wire identification number at intervals not exceeding 0.5 m. The Contractor shall be required to demonstrate the permanence of the inking system." are deleted from this clause.</p>	Yes	3



Sl.No.	Tender Vol. No.	Clause No.	Original Text	Bidder's Queries	KMRC/GC Response	Addendum required	Addendum Reference
10	3	3.8.3d(iii)	Synchronization controls: iii. In the event of a PLC failure when the vehicle is lifted, the operator will have the option to lower the Lifting Jacks synchronously; each jack stops on its lower limit switch. Only lowering is authorized in this mode. The system adopted to lower the Lifting Jacks in the event of power failure shall be explained in offer.	Please note that in the event of PLC failure, usually after reset, the PLC work again. The chances of PLC failure are less. We request you to kindly delete this clause as it increases the cost of Project, unnecessarily	Not agreed to, as it is a safety requirement. No change in the Tender document.	No	Nil
11	3	6.1.2	<b>Prior to Assembly</b> A complete and thorough check (dimensional and machining quality) of all screws shall be carried out on the Contractor's premises. During this check, each screw shall be marked at the top end with a cold-stamped letter, height 6 mm. The same mark shall be made on the corresponding nut.	Marking of the screws is done according to international standards and regulation. Safety class is stamped on every screw and matching nut. Kindly delete or amend this clause	Not agreed to. However, if the Contractor is able to demonstrate that he follows the relevant international standards and regulation in this regard, the deviation may be considered at the time of Detailed Design.	No	Nil
12	3	6.1.3	The Lifting Jacks shall require the following tests and the tests according to EN1493: - Noise level when lifting and lowering nominal load to be less than 55 dB at one meter.	Please note that according to the standard EN 1493 noise level is mandatory for all lifting equipment and requires not more than 70 DB which is measured from a distance of 10 mtrs. We request you to kindly modify the clause.	The clause is modified from 55dB to 70 dB only, other parameters remain same.	Yes	4
13	3	7.1.2	Unless otherwise provided in the contract, all containers (including packing cases, boxes, tins, drums and wrappings) in which the stores are supplied by the Contractor shall be considered as non-returnable and their cost as having been included in the contract price.	Please note that the packing cases, wooden boxes, ...etc. will be not returnable, is normal. But the items from Sea Container will be unloaded at the site and the forwarder takes the container back. We request you to modify or delete this clause.	Agreed. Clause will be modified accordingly.	Yes	5

Sl.No.	Tender Vol. No.	Clause No.	Original Text	Bidder's Queries	KMRC/GC Response	Addendum required	Addendum Reference
14	3	9.1.3	The Contractor shall maintain bank of spares at KMRC's designated premises to optimize the downtime. The Contractor shall themselves arrange for any transportation, loading / unloading, spares, lubricant & other consumables, machinery & plants, tools/ tackles, labour, garbage disposal etc required for attending break down/ maintenance of the Machine/Equipment during DLP	Since there is no additional Spare Parts supply mentioned in the tender, the Standby Spares will be maintained with our local representative. Please accept this proposal.	Accepted. But the stipulated requirements of failure response/attention time, downtime etc must be complied with. <i>(Note : The numbering of clauses under Clause 9.1 is to be read as 9.1.1, 9.1.2 etc in stead of 1.1.1, 1.1.2 etc. )</i>	Yes	6
15	3	12.3	The Contractor shall provide the entire documentation for review and approval by the Engineer, including the following. • The flow charts, the assembly listings and the copy of the source programme on a CD for the software.	Please note that the equipment is customized, so we will provide the required documents for equipment and backup of PLC with the charts. Providing source programme code on a CD for the software is not possible. So we request to modify the clause.	Accepted. The clause will be modified accordingly.	Yes	7
16			Further, while going through the Tender documents we noticed that there is no. Safety Checks and Tests mentioned in the Tender. Since, this is a safety item we would like to recommend some checks and tests as follows. According to the standard EN 1493, which is required for these machineries, we are doing several tests and checks during the Manufacturing Process as well as after completion and FAT. Some of the principal tests are as mentioned here: It is recommended to include these Checks & Tests in the Technical Specifications:  <b>Generally Design Check</b> The design check shall verify that the MLJ's are designed in accordance with the standard EN 1493. It shall at least be checked that if: a) drawings contain the main dimensions of the MLJ's b) there is a description of the MLJ's with necessary information about its capabilities c) there is information about the material and components used d) there are diagrams of the electrical, hydraulic and pneumatic circuits e) there are instructions covering installation, commissioning, operating, maintenance and dismantling. f) the structural calculations to be checked g) the stability calculations to be checked		Checks and Tests, including safety checks, are outlined in Clause 6 of the Particular Specification.	No	Nil



Sl.No.	Tender Vol. No.	Clause No.	Original Text	Bidder's Queries	KMRC/GC Response	Addendum required	Addendum Reference
			<p><b>Manufacturing Check:</b> We have to verify that:</p> <ul style="list-style-type: none"> <li>a) the MLJ's are in accordance with the checked documents, with special attention to safety devices</li> <li>b) the test certificates are available for ropes, chains and hoses</li> <li>c) welding has been performed according to the drawings.</li> <li>d) the MLJ's are stable;</li> <li>e) all functions work correctly and safely</li> </ul> <p><b>Overload dynamic test during FAT:</b> The test load shall be 115 % of the rated load. All movements with the test load shall be carried out at accelerations and decelerations appropriate with safe control of the load. The intended movements shall be carried out with care taking into due account the least favorable positions and when vibrations associated with preceding movements have subsided. When tests with different test loads are necessary, all movements shall be carried out with all test loads except where the least favorable conditions can be simulated by one performance test. During this test the MLJ's shall be capable of stopping and sustaining the test load.</p> <p><b>Overload static test during FAT:</b> The test load shall be 150 % of the rated load. During this overload static test the MLJ's shall be put into each position which creates maximum stress in any load carrying part of the lift. After removing the test the MLJ'S shall show no permanent deformation.</p> <p><b>Functional tests during FAT:</b> Functional tests with rated load shall demonstrate that:</p> <ul style="list-style-type: none"> <li>1) the MLJ's can be operated smoothly for all motions at the rated speed</li> <li>2) the safety devices work correctly. This included the protection against leakage.</li> <li>3) the leveling devices work within stipulated differences</li> <li>4) maximum permitted speeds are not exceeded</li> </ul> <p><b>Electrical tests:</b> Electrical tests shall be performed according to EN 60204-1</p>				

**Addendum (Technical)**  
**Synchronous Mobile Lifting Jack (Tender No. SML-J/DSTM/07)**

Add. Ref.	Volume No.	Clause No.	Original Text	Modified Text
1	3	1.5(m)	The Contractor is responsible for all civil/electrical works required for installation of the machine. Details of foundation, if any, and cable trench system shall be under his scope of supply. The Tenderer shall submit the detailed engineering drawing at the time of submission of tender bid.	The Contractor is responsible for all civil/electrical works required for installation of the machine. Details of foundation, if any, and cable trench system shall be under his scope of supply. The Tenderer shall submit General Arrangements Drawings at the time of submission of Tender Bid. Design Details, as required for complete check of the design for approval of the same, shall be submitted at the Design Review Stage.
2	3	8.2.1(d)	The operation training shall cover:- (d) Real time re-profiling of trains under supervision of the instructor.	Clause 8.2.1(d) deleted.
3	3	3.3.4	<b>Wire Identification</b> All equipment wires shall be marked with a unique wire identification number by means of marker sleeves located within 50 mm of each end wire. In addition, the wire insulation shall be indelibly marked with the wire identification number at intervals not exceeding 0.5 m. The Contractor shall be required to demonstrate the permanence of the inking system. The identification numbering system will correspond to the wire identification numbering system used on the schematic drawings and wiring diagrams, and shall be approved by KMRCL.	<b>Wire Identification</b> All equipment wires shall be marked with a unique wire identification number by means of marker sleeves located within 50 mm of each end wire. The identification numbering system will correspond to the wire identification numbering system used on the schematic drawings and wiring diagrams, and shall be approved by KMRCL.
4	3	6.1.3	The Lifting Jacks shall require the following tests and the tests according to EN1493: - Noise level when lifting and lowering nominal load to be less than 55 dB at one meter.	The Lifting Jacks shall require the following tests and the tests according to EN1493: - Noise level when lifting and lowering nominal load to be less than 70 dB at one meter.
5	3	7.1.2	Unless otherwise provided in the contract, all containers (including packing cases, boxes, tins, drums and wrappings) in which the stores are supplied by the Contractor shall be considered as non-returnable and their cost as having been included in the contract price.	Unless otherwise provided in the contract, all containers (including packing cases, boxes, tins, drums and wrappings except any 'Container' provided by the transporter for shipping/transportation of the consignment) in which the stores are supplied by the Contractor shall be considered as non-returnable and their cost as having been included in the contract price.



Add. Ref.	Volume No.	Clause No.	Original Text	Modified Text
6	3	9.1.3	<p>The Contractor shall maintain bank of spares at KMRCL's designated premises to optimize the downtime. The Contractor shall themselves arrange for any transportation, loading / unloading, spares, lubricant &amp; other consumables, machinery &amp; plants, tools/ tackles, labour, garbage disposal etc required for attending break down/ maintenance of the Machine/Equipment during DLP</p>	<p>The Contractor shall maintain bank of spares at the premises of its Indian Associate Firm/Company or local office, if applicable, to optimize the downtime. The Contractor shall themselves arrange for any transportation, loading / unloading, spares, lubricant &amp; other consumables, machinery &amp; plants, tools/ tackles, labour, garbage disposal etc required for attending break down/ maintenance of the Machine/Equipment during DLP</p>
7	3	12.3	<p><b>At Completion of Work:</b> The Contractor shall provide the entire documentation for review and approval by the Engineer, including the following.</p> <ul style="list-style-type: none"> <li>• The list or complete nomenclature of general drawings and detailed drawings</li> <li>• the general nomenclature of the supply including vendors,</li> <li>• Drawings required for maintenance and troubleshooting of the machine/equipment,</li> <li>• Illustrated lists of mechanical parts itemized in accordance with the diagrams and drawings. The following information for every item of SMLJ shall be provided:- <ul style="list-style-type: none"> <li>a) Part No.</li> <li>b) Description</li> <li>c) Name and contact address of manufacturer with contract details.</li> <li>d) Quantity &amp; unit.</li> <li>e) Part of next higher assembly.</li> <li>f) Cross reference to figure no.</li> <li>g) General or specific purpose.</li> <li>h) Purchase &amp; technical specification</li> </ul> </li> <li>• Maintenance and adjustment manual with summary of circuits and functions and among other information, a lubrication manual including location of lubrication points, type of lubricants along with Particular specification, frequencies and quantities,</li> </ul>	<p><b>At Completion of Work:</b> The Contractor shall provide the entire documentation for review and approval by the Engineer, including the following.</p> <ul style="list-style-type: none"> <li>• The list or complete nomenclature of general drawings and detailed drawings</li> <li>• the general nomenclature of the supply including vendors,</li> <li>• Drawings required for maintenance and troubleshooting of the machine/equipment,</li> <li>• Illustrated lists of mechanical parts itemized in accordance with the diagrams and drawings. The following information for every item of SMLJ shall be provided:- <ul style="list-style-type: none"> <li>a) Part No.</li> <li>b) Description</li> <li>c) Name and contact address of manufacturer with contract details.</li> <li>d) Quantity &amp; unit.</li> <li>e) Part of next higher assembly.</li> <li>f) Cross reference to figure no.</li> <li>g) General or specific purpose.</li> <li>h) Purchase &amp; technical specification</li> </ul> </li> <li>• Maintenance and adjustment manual with summary of circuits and functions and among other information, a lubrication manual including location of lubrication points, type of lubricants along with Particular specification, frequencies and quantities,</li> </ul>



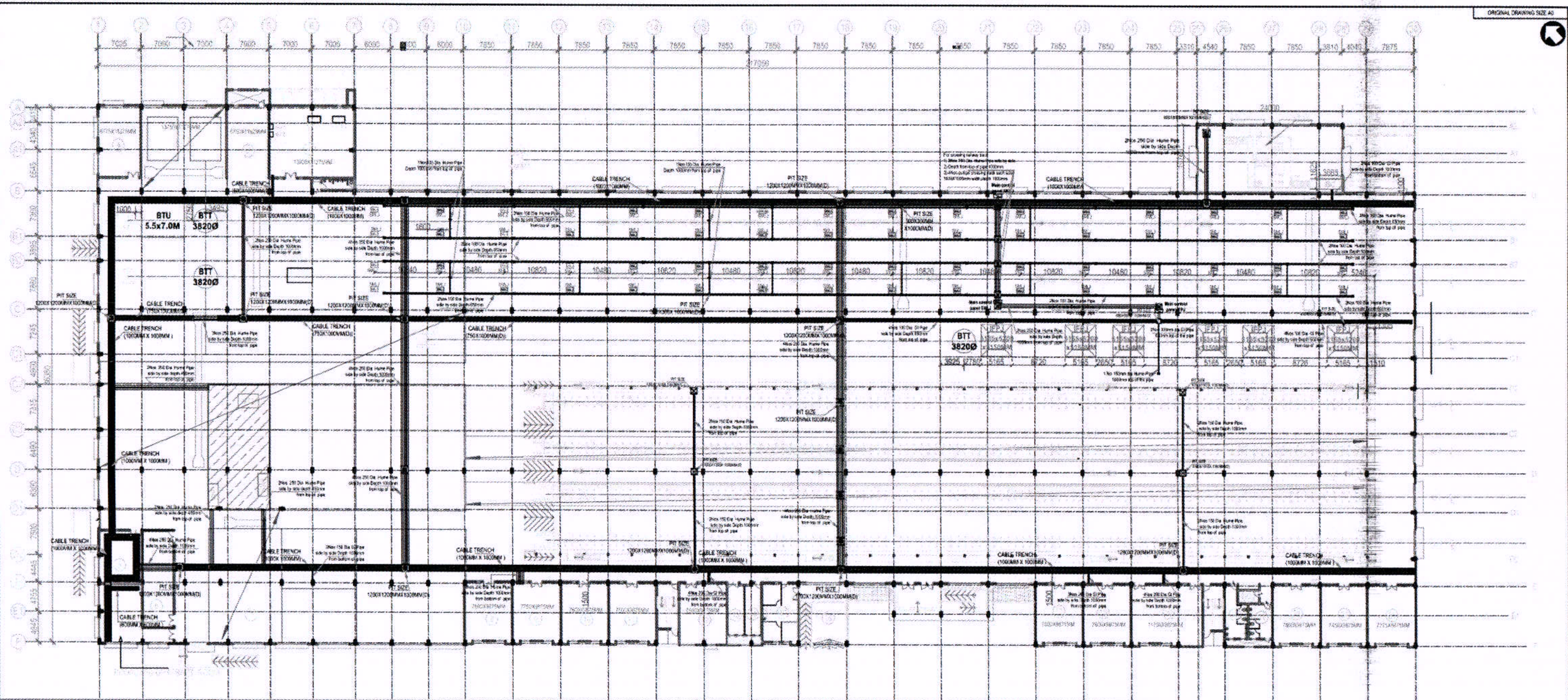
Add. Ref.	Volume No.	Clause No.	Original Text	Modified Text
			<p>• An operating manual (start and user's instructions) including the numeric control system,</p> <p>• Complete documentation of equipment from vendors (including read and display apparatus, diameter measurement apparatus and numeric control system),</p> <p>• Complete documentation on motors and major components,</p> <p>• Spare part list with quantities for five years after handover of the Works, anticipated frequency of replacement and prices with a one-year validity period,</p> <p>• The flow charts, the assembly listings and the copy of the source programme on a CD for the software.</p> <p>• Manual for hardware &amp; software tools required for making changes in the application software</p> <ul style="list-style-type: none"> <li>- spare parts catalogue</li> <li>- vendor details</li> </ul> <p><u>Note:</u> The layout of the elementary diagrams shall include the schematic with a maximum of significant information (voltage, signal shape etc), location and nomenclature of components, printed circuit board drawing with representation of components.</p>	<p>• An operating manual (start and user's instructions) including the numeric control system,</p> <p>• Complete documentation of equipment from vendors (including read and display apparatus, diameter measurement apparatus and numeric control system),</p> <p>• Complete documentation on motors and major components,</p> <p>• Spare part list with quantities for five years after handover of the Works, anticipated frequency of replacement and prices with a one-year validity period,</p> <p>• The flow charts and the assembly listings</p> <p>• Manual for hardware &amp; software tools required for making changes in the application software</p> <ul style="list-style-type: none"> <li>- spare parts catalogue</li> <li>- vendor details</li> </ul> <p><u>Note:</u> The layout of the elementary diagrams shall include the schematic with a maximum of significant information (voltage, signal shape etc), location and nomenclature of components, printed circuit board drawing with representation of components.</p>



**Annexure- D****Addendum (Contractual)- 1  
Synchronous Mobile Lifting Jack (Tender No. SMLJ/DSTM/07)**

<b>Add. Ref.</b>	<b>Volume No.</b>	<b>Clause No.</b>	<b>Original Text</b>	<b>Modified Text</b>
1	1	NIT -4 Key Details	Deadline for Submission: 31.07.2017 at 14:00 Hrs.  Date & Time of Opening of Tender: 31.07.2017 at 14:30 Hrs.	Deadline for Submission: 22.08.2017 at 14:00 Hrs.  Date & Time of Opening of Tender: 22.08.2017 at 14:30 Hrs.





ROOM NO	ROOM NAME
1	COMPRESSOR ROOM
2	PAINT ROOM
3	BOGIE WASHING AREA
4	CHEMICAL DL & DREASE
5	DISTRIBUTION PANEL
6	GENERAL STORE
7	MACHINE TOOL CENTRE
8	WELDING ROOM
9	TRACTION EQUIPMENT / ISOLATOR SWITCH ROOM
10	CABLE & CONNECTOR STORE ROOM
11	COACH GLASS STORE
12	BEARING SECTION
13	BOGIE SPARE
14	WATER HUT
15	FIRST AID ROOM
16	AMBULANCE PARKING
17	ATPHATO
18	TECHNICAL ROOM
19	PIG
20	TOILET (G)
21	TOILET (R)
22	PH TOILET
23	INSPECTION ROOM
24	SUPERVISOR ROOM
25	BATTERY RECHARGE

SMLJ	SYNCHRONISED MOBILE LIFTING JACK
UFWL	UNDER FLOOR WHEEL LATHE
BC	BATTERY CHARGER
BTT	BOGIE TURN TABLES
SWL	SURFACE WHEEL LATHE
BTU	BOGIE TESTING UNIT
WP	WHEEL PRESS
VTL	VERTICAL TURRET LATHE
IFPJ	INFLOOR PIT JACK

NOTE:-

1. THIS DRAWING HAS BEEN PREPARED SHOWING CABLE TRENCH FOR NECESSARY REFERENCE OF CIVIL CONTRACTOR FOR MAKING FLOOR
2. NECESSARY INSERT PLATE TO BE PROVIDED ON WALL AT AN INTERVAL OF 2000MM DURING PREPARING MASONRY (CIVIL) TRENCH FOR LAYING OF LADDER TYPE CABLE TRAYS IN TIER FORMATION
3. ALL RCC HUME PIPE SHALL BE HEAVY DUTY OF NP2 TYPE WITH COLLAR FOR RAILWAY TRACK CROSSING AND TO BE LAID 1000MM FROM TOP OF HUME PIPE
4. NECESSARY PULL / FISH WIRE TO BE PROVIDED INSIDE THE PIPE FOR UNDER FLOOR CABLE LAYING

