

BEML LIMITED

(A Govt. of India Mini Ratna Company under Ministry of Defence)
BANGALORE COMPLEX, POST BOX: 7501, NEW THIPPASANDRA POST,
BANGALORE-560075

NOTICE INVITING TENDER

BID INVITATION NO: 6300040098

DT:30.10.2025

Subject: Design, Manufacture, Supply, Testing & Commissioning, Training & Manuals of Diesel Operated Relief & Rescue Vehicle (RRV) With Re railing Rescue Eqt & Auxiliary Truck as per PTS Doc. No: GR/TD/7728 Latest Revision required for Chennai Metro Rail Project-Phase II (ARE02A).

Quotation/offer are invited from Original Equipment Manufacturer (OEM) or authorized representatives of OEMs of Diesel Operated Relief & Rescue Vehicle (RRV) With Re railing Rescue Eqt & Auxiliary Truck for Metro Rolling stock having experience in Design, Manufacture, Supply, Testing & Commissioning of Diesel Operated Relief & Rescue Vehicle (RRV) including DNP/DLP in accordance with the enclosed terms and conditions within the tender closing date.

Quotations should be submitted online (E-mode) in SRM Portal in Two-Bid system as below:

- 1) Technical Bid**
- 2) Commercial Bid**

CLOSING DATE & TIME: [10.11.2025@2.00PM](#) (IST).

Note: Commercial bids of only technically acceptable firms will be opened and considered for further evaluation by BEML.

Note:- The tender consists of 42 Nos. of pages including this page.

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3. General Instructions to Bidders:

1. The Bidders are advised to carefully go through, read and understand this tender document completely including terms and conditions, Annexures and Appendices etc. before submitting bids
 - a. This NIT is not transferable under any circumstances.
 - b. All entries in the bids, formats which would be part of bids shall be in English either typed or written legibly. Erasing, over-writings and use of correction fluids are not permitted. All cancellations and insertions should be duly signed / attested by bidder concerned.
 - c. All the corresponding documents shall be attached along with the quotation/offer
 - d. The bidder shall **sign each and every page of tender document** before submitting the tender. No corrections/revisions will be entertained after opening the bids.
 - e. Late and/or incomplete tender shall not be considered.
 - f. Canvassing in any manner including unsolicited letters and request for post tender corrections shall render offers of such parties liable for rejection.
 - g. Bidder shall ensure that all the information & documents submitted by them are true & correct.
 - h. In case, it comes to the knowledge of BEML that the bidder has submitted false information before awarding of contract then the offer would be rejected.
 - i. In the event, it comes to the knowledge of BEML that the successful bidder has submitted false information, subsequent to the award of contract, the contract shall be cancelled/short closed by the company and shall invoke Risk purchase clause with liabilities on such bidder for the entire contract quantity. The PBG shall also be encashed as a result of consequence of breach of contract at the discretion of BEML.

2. Abbreviations used in this NIT

NIT-Notice Inviting Tender	BEML -BEML Limited
TS-Train set	CMRL -Chennai Metro Rail Limited
PTS- Procurement Technical Specification	ERTS -Employer's requirements General Specification
PO-Purchase order	DLP -Defect Liability Period
GTC- General Terms and Conditions	DNP – Defect Notification Period
CMC – Comprehensive Maintenance Contract	PBG – Performance Bank Guarantee
GeM - Government e-Marketing	SRM-Supplier Relationship Management

3. In case any person/persons, Company, firm, Associations having any litigation, arbitration cases between themselves and BEML Ltd, pending before any court of law/ Arbitrator shall not be eligible to participate in this tender.
4. Non-compliance with any of the tender conditions, incomplete offers, conditional and ambiguous offers are not acceptable and liable for rejection.
5. The bidder shall fill in all the required particulars in the blank space provided for the purpose in the tender document.
6. All the documents shall be uploaded in SRM Portal.
7. Fax/email quotations are not acceptable.
8. BEML reserves the right to accept or reject all tenders or any tender in part or full without assigning any reasons thereto, which is final & binding on the Bidder

4. DETAILS OF THE TENDER

This "Notice Inviting Tender" hereinafter referred to as the 'NIT' is designated as the tender for Design, Manufacture, Supply, Testing & Commissioning, Training & Manuals of Diesel Operated Relief & Rescue Vehicle (RRV) as per PTS Doc. No: GR/TD/7728 Latest Revision required under Depot Machinery & Plant for Chennai Metro Rail Project.

The tender consists of two parts as indicated below:

Sl.No.	Nature of Bid	Mode of Submission	Details
1	Technical Bid	SRM Portal	Technical Bid (Without Price Details) shall be uploaded and submitted in the SRM Portal, wherein only technical Bid /technical information in SRM Portal shall be uploaded.
2	Commercial Bid	SRM Portal	Price details to be duly filled in specified field on SRM Portal. Evaluation is based on the total bid value of all the items & services.

Details of Items & Services:

1) Equipment with DNP/DLP

Table-1.1: Equipment Quantity including Testing & Commissioning Activities

Sl.No	Part No.	Description	UoM	Quantity
1	52475008	DIESEL OPERATED RELIEF AND RESCUE VEHICLE(RRV) WITH RERAILING & RESCUE EQUIPMENT TOPTS DOC GR/TD/7728 LATEST REV	No	1

Scope shall also cover the following:

- Design, manufacture, supply, delivery at Madhavaram Depot, Installation and Testing & Commissioning activities for each M&P Equipment
- DLP Spares for 3 Years during Defect Notification period (DNP) /Defect Liability Period (DLP) as per PTS/ERTS requirements. Detailed year wise BOM for DNP/DLP Spares to be provided by the supplier.
- Supplier to provide special tools & Jigs and Software as recommended by the OEM in line with PTS clause (9)
- Supplier to provide documents as per PTS clause 5.1, 5.2.2 & 5.2.5
- Supplier to provide training & manual as per PTS clause (8)

Required Delivery Schedule: Diesel Operated Relief & Rescue Vehicle (RRV):

Sl No	Part No / Description	Schedule	Qty.
1	Submission of Final Design Documents, Design Approval with NONO / NOWC, Manufacturing, FAT, Delivery of Diesel Operated Relief & Rescue Vehicle (RRV)at Site	March 2026	1

2	Completion of Installation, Commissioning, Testing Trails, Training, Handing over of (RRV)	April 2026	1
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5. SUBMISSIONS OF TECHNICAL BID

Technical Bid Submission Conditions: Technical Bid (without Price Details) shall be uploaded and submitted in the SRM Portal, wherein only technical Bid /technical information in SRM Portal shall be uploaded as indicated below:

- a) Bidders should upload duly filled, signed & stamped Integrity Pact with two witnesses **[Appendix – A]**.
- b) Clause by Clause compliance for the BEML Procurement Technical Specification (PTS): Doc no: PTS Doc. No: GR/TD/7728 Latest revision **[Appendix – B]** Bidders to refer “PTS” **(Annexure-I)** enclosed along with this tender document. Bidders should upload the following documents duly filled, signature & stamped under technical bid and Format as per PTS also to be submitted
- c) Bidder to upload enclosures related to technical & other information deemed appropriate in respect of this tender on the letter head of the company, if any. Photographs / Drawings if any, may be uploaded.
- d) Bidders to refer “**GENERAL TERMS AND CONDITIONS (GTC)**” **(Annexure-II)** enclosed along with this tender document and upload clause by clause compliance of GTC duly filled, signature & stamped along with the supporting documents as specified therein. **[Appendix – C]**
- e) Bidders to commit that they will support BEML for requirement of any additional equipment, spares, service required at the later stage i.e. after taking over of supplied equipment and upto completion of CMC period i.e. 15 years. **[Appendix- D]**
- f) Bidders to upload duly filled, signature & stamped confidentiality agreement in plain paper **[Appendix – E]**
- g) Bidders to upload duly filled, signature & stamped Compliance to Land border sharing Clause – **[Appendix – F]**
- h) Bidders to upload duly filled, signature & stamped Compliance to purchase preference under public procurement policy – **[Appendix – G]**
- i) Bidders to upload duly filled, signature & stamped Compliance to Contact Details of Supplier/ Bidder – **[Appendix – H]**
- j) Bidders to upload duly filled, signature & stamped Compliance to Delivery Schedule – **[Appendix – I]**

BEML at its sole discretion reserves the right to seek the Soft/ Hard copies of the documents which are already been uploaded in SRM Portal, through Courier / post pertaining to technical bid of this tender enquiry at a later date, if required.

In such cases, only the documents uploaded in SRM Portal in original has to be couriered at the request of BEML. Any irrelevant documents furnished through courier will not be considered.

NOTE:

- Please note Commercial Bid /Price details should not be indicated in TECHNICAL BID, else bid will not be considered for further evaluation.

6. SUBMISSIONS OF COMMERCIAL BID

The price bid to be submitted through SRM Portal. The following details are to be entered in the SRM Portal.

Table-1

Table-1. Equipment with DNP/DLP						
Sl.No	Part No	Description	UoM	Total Quantity	Unit Rate in INR	Total Quantity
1	52475008	DIESEL OPERATED RELIEF AND RESCUE VEHICLE(RRV) WITH RERAILING & RESCUE EQUIPMENT TOPTS DOC GR/TD/7728 LATEST REV	No	1	Price to be uploaded in commercial bid only	
Subtotal (Table 1)						
The prices are firm and fixed prices and PVC is not applicable.						

NOTE:

- Bidder has to quote for all the items in SRM Portal.
- Commercial evaluation will be arrived based on grand total of all the tendered items i.e. Supply of Equipment with DNP/DLP. (as per Table-1)
- The commercial bids of the technically acceptable vendors only will be opened for further commercial evaluation.
 - Reverse Auction will be conducted among technically qualified Bidders in SRM Portal as per procedures and L1 status will be arrived based on total landed bid value (as per Table-1).
 - The Reverse Auction will be conducted at the sole discretion of BEML.
- Acceptable Currencies: Price should be quoted in any of the following currencies only.
 - INDIAN RUPEE (INR)
 - EURO (EUR)
 - JAPANESE YEN (JPY)
- For the purpose of arriving the landed cost in INR, the exchange rates for EUR/JPY prevailing as on date of opening of commercial bid.
- In case of Foreign bidders, for the purpose of arriving the landed Cost in INR, Freight charges of 4.5% shall be loaded during price evaluation.

[ANNEXURE – II]

GENERAL TERMS & CONDITIONS (GTC) FOR PROCUREMENT OF MATERIALS

1. GLOSSARY, DEFINITIONS & INTERPRETATIONS:

- a) The Purchaser means “(include company name and address)” (A Government of India Undertaking) incorporated under the Companies Act having its registered office at “BEML Soudha, No 23/1, 4th main, S.R. Nagar, Bengaluru – 560027” and shall be deemed to include its successors and assignee.
- b) Supplier’ means a person having been included in a contract as a Contractor and also means a firm or company with whom the order for supply/execution of work is placed and shall be deemed to include the supplier’s successors, (approved by BEML Ltd.,) representatives, heirs, executors and administrators. The supplier may also be referred to as the supplier, Contractor or vendor.
- c) Parties to the Contract’ shall mean the Supplier and the Purchaser as named in the main body of the Purchase Order.
- d) Tender’ means and includes quotation, invitation to tender and all other documents like drawings, specifications, quality plan, etc that form part of the tender document.
- e) Acceptance of Tender’ Means the letter of memorandum communicating supplier, the acceptance of the Tender and includes advance acceptance of this tender.
- f) Purchase Orders (PO) / Contract’ means and includes the invitation to tender, instruction to Tenderers, acceptance of tender, Letter of intent / letter of award, the general terms and conditions of Purchase Order / contract, special conditions of Purchase Order /contract, particulars, descriptions, specifications, schedule of prices, quantities, quality plan, drawings enclosed and other condition specified in the acceptance of tenders and includes the repeat order which has been accepted or acted upon by / for the supplier for the supply of stores and includes an order for performance of service and includes amendments, if any, that may take place subsequent to the discussions, negotiations, mutual agreement if any.
- g) Stores / Materials / Services’ means the goods or services as described in Procurement Technical Specification (P.T.S.) and in the Purchase Order which the supplier has agreed to supply under the Purchase Order.
- h) Specification means technical specifications of the Equipment / Material as set forth in Procurement technical specification (PTS) / technical drawings, which is part of tender. Employer(CMRL) Requirement Technical specification (ERTS) & Employer (CMRL) General Condition of contract(GCC) and Employer Particular condition of Contract (PCC)
- i) End-Customer / End-user means: Chennai Metro Rail Limited (CMRL).
- j) Words in singular include the plural & vice-versa.
- k) Words imparting the masculine gender shall be taken to include the feminine gender and words imparting persons shall include any firm, company or associations or body of individuals whether incorporated or not.
- l) The heading of these conditions shall not affect the interpretations or construction thereof of the contract.
- m) C.F.R/F.O.B/D.D.P/D.A.P is to be interpreted in accordance with the provisions of INCOTERMS 2020, unless otherwise specified in this Tender Document / Purchase order.

2. SUBMISSION OF THE TENDER:

Tender is in Two-Bid system (**Technical & Commercial Bid**). Bids should be submitted online mode only as follows:

a) Submission of Technical bid (without price):

- i. The Bidder should upload all the requisite technical documents along with respective supporting documents and other information deemed appropriate in respect of the Tender.
- ii. The price details/commercial bid details should not be given in the Technical bid. If any of the bidder have given any price/commercial details in the Technical bid, their offer is liable for rejection and will not be considered for further evaluation.
- iii. Technical Bid will be opened on date and time of bid opening and the commercial Bids of those bidders whose technical bids are qualified (accepted) only will be opened for commercial evaluation.

b) Submission of Commercial bid:

- i. The Commercial Bids of those bidders whose technical bids are qualified (accepted) only will be opened for commercial evaluation.
- ii. Price details in specified field on SRM Portal to be submitted.
- iii. Bidder to quote for all the items /Services.

c) General:

- i. If dealers are submitting the bids in place of OEM, Dealer should submit Authorization letter from OEM.
- ii. BEML reserves right to reject the tender due to unsatisfactory past performance in the execution of a contract at any of BEML projects / units.
- iii. Bidders participating in the tender should declare in their offer that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be furnished to BEML.
- iv. In case any person/persons, Company, firm, Associations having any litigations, arbitration cases between themselves and BEML Ltd, pending before the Court / Arbitrator or initiated litigations/arbitrations in connection with any contract / tender issued by BEML Ltd and any contractor has defaulted against the BEML's orders, they are not eligible to participate in this tender.
- v. BEML may decide to scrap the tender/refloat the tender without assigning any reasons thereof before LOI/PO is committed. BEML reserves the right to accept, split, divide, negotiate, cancel or reject any tender or reject all tenders at any time prior to the award of the contract without incurring any liability to the affected tenderers or any obligation to inform affected tenderer, the grounds of such action.
- vi. BEML reserves the right to verify, in its sole discretion, any information given by the bidders independently through any third-party agencies. During this process, if it is found that any of the information given by the bidder is false / misleading, offers of such bidders would be out rightly rejected.
- vii. BEML also reserves the right to independently assess the capability and capacity of the bidder for execution of the order/contract. BEML's decision on any matter regarding short listing of bidders shall be final.
- viii. The Tender / Notice Inviting Tender is not an offer or a contract.
- ix. Bidders will not be compensated or reimbursed for the costs incurred in preparing Proposals. Proposals shall become BEML property.
- x. BEML's decision is final for Evaluation of the offers which is also based on Employer's (CMRL) requirement and conditions of contract for ARE02A Project.

3. SUPPLIERS SHARING LAND BORDER WITH INDIA:

Land border sharing Declaration in line with Department of Expenditure's (DOE) Public Procurement Division order vide F. No. 6/18/2019-PPD dated 23.07.2020 & 24.07.2020 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products, shall be applicable for bidders / suppliers sharing land border with India. Bidders to upload signed & sealed compliance as per appendix attached as part of Technical Bid.

4. PREFERENCE TO MAKE IN INDIA:

Purchase Preferences as per MII (Make In India Policy) and MSE Purchase Preference as Per Public Procurement Policy is Applicable in-line with revised public procurement (preference to make in India), order 2017 dated 04th June, 2020 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products, shall be applicable for bidders / suppliers under Purchase preferences. Bidders shall upload necessary supporting documents and to upload signed & sealed as per appendix attached as part of Technical Bid.

Consideration of bids shall be as follows:

(i) If technically qualified bid(s) with valid Notice of No Objection / Notice of No Objection with Conditions (NONO/NOWC) from end customer (i.e. CMRL) is available for local supplier (as per MII), then bids of local supplier/s only will be considered and bid of non-local supplier/s will not be considered for commercial bid opening and evaluation.

(ii) In the case of technically qualified bid(s) with valid Notice of No Objection (NONO/NOWC) from end customer (i.e. CMRL) is not available for local supplier (as per MII) then the technically qualified bid(s) with valid NONO/NOWC from end customer (i.e. CMRL) of non-local supplier/s will be considered for commercial bid opening and evaluation.

5. DELIVERY TERMS:

- a) In case of foreign Supplier: F.O.B (Free on Board) to nearest port basis. The intimation for shipment should be provided 21 days prior to the delivery schedule to our nominated freight forwarder and the consignment to be handed over to our freight forwarder before the cut-off date for sailing.
- b) In case of Domestic Supplier: F.O.R (Free on Road) /F.D.D. (Free Door Delivery) to Designated CMRL depot, Chennai
- c) For DNP/DLP spares: DDP/ F.O.R- Designated CMRL depot, Chennai

6. PAYMENT:

I. SUPPLIES (Equipment)

a) APPLICABLE TO FOREIGN BIDDERS

i. TT payment: -

100% in 60 days from the date of receipt of Design documents delivery, Factory Acceptance Test (FAT), delivery of complete equipment, fixtures, tooling, other accessories and after successful completion of installation, commissioning Testing, Trials, Training, Handover & prove out of Equipment subject to acceptance certificate by CMRL/BEMLT&C at respective CMRL depot.

- ii. All bank charges incurred in India shall be borne by BEML and all bank charges outside India shall be borne by the supplier.

b) APPLICABLE TO THE DOMESTIC BIDDERS

- i. Terms of payment:

100% in 60 days for non MSE / for MSEs in 45 days from the date of receipt of Design documents delivery, Factory Acceptance Test (FAT), delivery of complete equipment, fixtures, tooling, other accessories and after successful completion of installation, commissioning Testing, Trials, Training, Handover & prove out of Equipment subject to acceptance certificate by CMRL/BEMLT&C at respective CMRL depot.

Bidders to indicate the category of their firm under Micro/Small/Medium industries with necessary documentary proof of evidence for purpose of evaluation and our data up dation.

Micro and Small enterprises (MSE) registered under UDYAM registration are eligible for the 45 days payment on submission copy of MSE certificate issued by UDYAM.

TDS (Tax deducted at source) will be applicable for service purchase orders including Foreign Services and will be deducted as per law of land. SAC (Service Account code) shall be indicated by the bidder for the services that are proposed be carried out.

For Bidders not agreeing with above terms, their prices will be suitably loaded with applicable cash credit interest while evaluation of bids.

The payment is further subject to the following:

- a) The Invoice shall be compliant with GST laws.
- b) GST liability is to be discharged and ensure filing of outward supply details on GSTN portal within timeline prescribed.
- c) Any debit note/supplementary invoice if any, is to be raised within September month following the respective financial year of filing of annual return by BEML, whichever is earlier.
- d) Any loss of tax credit due to the reason attributable to supplier shall be recovered from supplier along with applicable interest and penalty.
- e) Bidders to indicate the GST and other levies applicable. GST shall be paid only after confirmation of payment of GST by vendors on GST Website.
- f) Relevant TDS / TCS as applicable shall be deducted as per prevailing Income Tax / GST / GOI notifications
- g) The supplier should submit the following documents for each supply:
 - Tax Invoice; GSTR-1 return filed with authorities with the relevant abstract
 - GSTR-3B return or any other form of return prescribed by the authorities.
 - Copy of Challans regarding deposit of GST
 - Certificate of Chartered Accountant

7. PRICE BID VALIDITY:

The Bid should be valid for 180 days from the date of tender opening. BEML's acceptance of the tender at the quoted / negotiated rates will be binding on the tenderer during the tenure of contract.

8. FIRM PRICE FOR SUPPLY, NON-RECURRING SCOPE AND DELIVERABLES:

The prices remain firm for the entire supplies of the purchase order and no escalation shall be entertained under any circumstances. The prices are to be firm & no increase in finalized price will be entertained after awarding contract during the period of Contract for any reasons whatsoever.

9. INSPECTION:

Bidders to offer Equipments for inspection as per PTS.

10. WARRANTY:

- a) The supplied goods/stores to the purchaser under the contract shall be of the highest grade, free of all the defects & faults in material and of the best quality, manufacture and workmanship and consistent with the established and generally accepted standards for materials of the type ordered and in full conformity with the contract specification, drawing or sample, if any and shall, if operable, operate properly throughout warranty period.

Any defect/fault & non-conformance to standards & descriptions as aforesaid, found during warranty period shall be rectified /repaired/replaced free of cost & at supplier's risk to the complete satisfaction of BEML / End user, within reasonable time at the ultimate destination.

The warranty period shall be 36 months after the date of issue of successful commissioning and proving test certificate of the machine at site. Any approval of acceptance issued by BEML during the course of installation, commissioning & proving out test shall not in any way limit the Contractor's liability.

In case where replacement of parts takes place during the warranty period, for replaced item and concerned sub-assembly shall extend further 36 months from the date of replacement of the defective parts. This extended period shall be known as extended warranty period.

- b) **Defect Liability Period (DLP) / Defect Notification period (DNP):** Defect Liability Period (DLP) / Defect Notification period (DNP): Defect Liability / Notification period shall start after taking over of equipment subject to acceptance by customer /CMRL and shall end Three years (36 Months) after taking over certificate of last equipment of quantity ordered. During DLP/ DNP, the Contractor shall be responsible for including but not limited to the following scope of activities:

- DLP Spares for 3 Years during Defect Notification period (DNP) /Defect Liability Period (DLP) as per PTS/ERTS requirements. Detailed year wise BOM for DNP/DLP Spares to be provided by the supplier.

- c) **Guarantee / Warranty replacement:** Guarantee / Warranty replacement shall be dispatched on D.D.P / F.O.R basis to Designated CMRL Madhavaram Depot for replaceable items during warranty period.

- d) The provisions of this Warranty shall be without prejudice to and shall not be deemed or construed so as to limit or exclude any rights or remedies which the BEML may have against the supplier, whether in tort or otherwise.

e)

If any defect or damage is one requiring immediate attention from safety / environmental view point / operational viewpoint, then BEML has the authority to proceed with rectification in any manner suitable and deduct such sums from the suppliers Bill or purchase order whichever is active.

11. **PERFORMANCE SECURITY / PERFORMANCE BANK GUARANTEE (PBG):** Supplier should submit single Performance Bank Guarantee for amount equivalent to 10% of the Contract value valid till Warranty period with additional 3 month claim period. The bank guarantee has to be submitted within 60 days from the date release of Purchase order from BEML but not later than 30 days before commencement of supplies pertaining to first delivery schedule indicated in the purchase order.

In case BEML is constrained to extend the Performance Bank Guarantee to its customer (CMRL), due to the failure of aggregates attributable to the supplies made by the supplier or non-fulfilment of NRC activities if applicable, then the costs involved to BEML for such PBG extensions shall be borne by the supplier.

Performance Bank Guarantee shall be returned back only after receipt of performance certificate from CMRL and if there is any defect /failure/negligence/complaints and /or any claims notified to BEML by CMRL on part of supplier during DNP/DLP, then the validity of PBG shall be extended till issuance of Performance Certificate by CMRL.

General terms of PBG:

- a) In case of foreign bank guarantees, the BGs from foreign banks, authorized /recognized by RBI to issue a Bank Guarantee, in their own letter head will be accepted.
- b) In the case of PBG/s submitted from Indian Bank, the PBG shall be furnished by Scheduled Commercial Banks authorized by RBI to issue a Bank Guarantee.
- c) Format for PBG is attached for reference.
- d) Performance Bank Guarantee shall be returned back only after receipt of performance certificate from CMRL and if there is any defect /failure/negligence/complaints and /or any claims notified to BEML by CMRL on part of supplier during DNP/DLP, then the validity of PBG shall be extended till issuance of Performance Certificate by CMRL
- e) In the absence of performance bank guarantee to be submitted by the supplier as per contract terms, BEML will not open Letter of Credit (LC) in the cases of LC in favor of supplier pertaining to the shipment / stores to be supplied as per first delivery schedule indicated in the purchase order. Any delay in submission of performance bank guarantee by the supplier, the subsequent delay in opening in Letter of Credit by BEML and supplies to be effected by the supplier are to the account of the supplier, which attracts liquidated damage charges as per contract terms.
- f) No claim shall lie against BEML Ltd., in respect of interest on cash deposits or Govt. Securities depreciation thereof.
- g) BEML shall be entitled to and it shall be lawful on its part to encash the Bank Guarantee in whole or in part in the event of any default, failure or neglect on the part of the supplier in the fulfilment or performance in all respect of the Purchase Order.
- h) The Bank Guarantee shall be established through **Structured Financial Messaging System (SFMS)** mode from a Scheduled Commercial Bank authorized by RBI in India as defined by RBI
- i) A separate copy of the BG has to be sent by the issuing bank to the Purchaser's bank. The details of Purchaser's bank are as under:

STATE BANK OF INDIA
Overseas Branch, No.65,
St. Marks Road,
Bangalore – 560001
IFSC Code: SBIN0006861

Following codes are to be used by issuing bank for the purpose of Confirmation and amendment in Bank Guarantees:

Code	Purpose
MT760	Confirmation of Bank Guarantee

- j) The Bank Guarantee shall also be established in e-BG mode through NeSL platform.
- k) The Bank Guarantee validity shall be extended as required till the completion of all contractual and warranty obligations in Full.

12. RIGHT TO VARY QUANTITIES & QUANTITY OPTION CLAUSE:

- a) BEML reserves the right to increase or decrease the quantity specified in the schedule of requirements without any change in the unit price or other terms and conditions within the agreed delivery schedule
- b) BEML may at its discretion may advice the supplier in writing about the increase of the total quantity upto additional 50%.
- c) Supplier shall be required to supply increased ordered quantities at the contracted terms & conditions and determined prices (Excluding design cost, Type test cost, FAI test cost, Training & Manuals cost and Testing & commissioning cost) and no additional amount on account of quantity variation or escalation or any other account whatsoever payable to the supplier
- d) In case of increase in quantity beyond the original bid quantity, the delivery schedule for the increased quantities shall be mutually decided at the time of exercise of quantity variation by the Purchaser

13. LIQUIDATED DAMAGES / DELAY DAMAGES CLAUSE:

The time and the date of delivery of the stores stipulated in the PO shall be deemed to be the essence of the Purchase order and delivery must be completed not later than the dates specified therein. The supplier shall strictly adhere to the delivery schedule indicated in the PO. Any supplies made ahead of this schedule are liable for rejection at the discretion of BEML. Should the supplier fail to deliver the stores or any consignment thereon within the period prescribed for such delivery, BEML shall be entitled to levy delay Damages as follows with an upper limit of 10% of order value.

1	2	3	4	
Sl.No	Key Date Description	End date of Completion as required by end used CMRL based on ARE02A contract	Delay Damages that will be levied from supplier for each day of delay beyond end date as in column 3 (INR Lakhs per day)	
			1 to 28 days	From 29 th day onwards
1	Submission of Final Design Documents, Design, Approval with NONO/NOWC, Manufacturing, FAT, Delivery of RRV at site of full order quantity	25 th May'2026	INR 1 Lakh per day	INR 10 Lakh per day
2	Completion of Installation, Commissioning, Testing, Trails, Training, Handing Over of RRV of full order quantity	30 th June'2026	INR 1 Lakh per day	INR 10 Lakh per day

14. RISK PURCHASE CLAUSE:

The time and the date of delivery of the stores stipulated in the PO shall be deemed to be the essence of PO and delivery must be completed not later than the date specified therein. Shall the supplier fail to deliver the stores/services or any consignment thereof within the period prescribed for such delivery, BEML shall be entitled at their option either;

- a) To purchase elsewhere, without notice to the supplier on the account and at the risk and cost of the supplier the stores not delivered or other of a similar description (where stores exactly complying with the description and readily procurable) without cancelling the PO in respect of consignment not due for delivery

or

- b) To cancel the purchase order.

In the event of action being taken under clause (a) or (b) above, the supplier shall be liable for any loss, which BEML may sustain on that account but the supplier shall not be entitled to any gain or purchases made against default. As soon as it is apparent that the scheduled dates cannot be adhered to, an application shall be sent by the supplier to BEML, well before the expiry of the delivery period specified in the purchase order. Without prejudice to the foregoing rights, if such failure to deliver in proper time as aforesaid shall have arisen from any cause which BEML may admit as a reasonable ground for an extension of the time (and their decision shall be final) they may allow such additional time as they may consider justified by circumstances of the case.

Delivery required to be made in lots shall be made in lots only and any extra deliveries involved either on account of repeated rejections or variance in supply of lots shall be liable for service charges of 5% of the purchase order value for each extra delivery.

15. SECRECY AND CONFIDENTIALITY:

- a) All the information, know-how, technical data, specification and drawing models or specimens furnished by BEML for the purpose of or in connection with the manufacture and supply of the stores hereby tendered constitute the property of BEML and the supplier shall keep them in strict confidence and he/ she shall not divulge the same to anyone else except under the authority and for the purpose of BEML. All such documents, data, drawing, models and specimens are the property of BEML and shall be returned when done with or when demanded by BEML.
- b) The supplier shall not supply the material ordered by BEML to anyone else other than BEML and shall not disclose any initiations, development or adaptations thereof to anyone.
- c) BEML shall be entitled to prevent a breach of the above and claim damages in case of breach. In case of non-performance in this PO, BEML will have to take procurement action at your risks and cost apart from levy of liquidated damages.
- d) Confidentiality agreement to be executed as per Appendix E.

16. AUTHORITY OF PERSONS SIGNING DOCUMENT:

A person signing the tender or any other document in respect of the tender shall be deemed to have power to do so on behalf of the Supplier.

17. ACCEPTANCE OF ORDER:

The supplier shall send Order Acceptance within two weeks from the date of LOI/LOA/Purchase Order or such other period as specified / agreed by the Purchaser. Purchaser reserves the right to revoke the order placed if the order confirmation differs from the original Purchase Order placed and the Purchaser shall only be legally bound after it has agreed explicitly in writing to be in agreement with the deviation. The acceptance of deliveries or supplies by Purchaser as well as payments made in this regard shall not imply acceptance of any deviations. The Purchase Order will be deemed to have been accepted if no communication to the contrary is received within two weeks (or the time limit as specified / agreed by the Purchaser) of receipt of the order.

18. OTHER CONDITIONS:

- a) Refer BEML Purchase Manual (can be accessed in BEML website www.bemlindia.in) for Important terms and conditions of tender and General Terms & conditions applicable to contracts & purchase orders refer General Terms & Conditions
- b) The firm shall take necessary permission for their employees to enter the factory premises and the firm shall arrange ESI & PF coverage to their employees / labourers if any from their end. The firm shall indicate ESI NUMBERS for the labourers hired or employed in advance in order to prepare work permit inside the factory.
- c) BEML will not have any kind of binding towards the compensation on case of injury / death to the firms employees while working in BEML /CMRL premises or other wise.
- d) BEML will not have any kind of binding on damages or loss to the tools/instruments etc. brought by the firm for commissioning purpose.

19. PRICE, INVOICING AND PAYMENT:

The agreed prices are **fixed prices** for the supply, in the currency as specified in the Purchase Order. They shall include packing, forwarding, loading and carriage to the place specified by the Purchaser and are inclusive of all applicable taxes, duties etc. except for those specifically agreed between the supplier and purchaser. The method of invoicing shall be without prejudice to the parties; agreement as to the place of performance. Invoices shall be submitted bearing the Purchase Order number & date, item number / s and supporting documents as called for in the Purchase Order.

As soon as each shipment is made in line with the delivery schedule specified in the purchase order, the supplier shall send **one set of Original documents and three (3) sets of photocopies** each of the following documents to the address indicated below by courier service.

- i) Commercial Invoice
- ii) Delivery Challan
- iii) Packing List
- iv) BEML's Inspection clearance document(s), material test certificates and other applicable quality documents pertaining to the supplies.

Postal Address

The Deputy General Manager,
Metro Purchase Department
BEML, Bangalore Complex,
PB No.7501, New Thippasandra post,
Bangalore, Karnataka, India,

20. PROGRESS REPORT:

The supplier shall regularly inform the progress of work and in such form as may be called for by the Purchaser from time to time. The submission and acceptance of such reports shall not prejudice the rights of the Purchaser in any manner.

21. QUALITY & WORKMANSHIP:

The stores supplied shall be of the best quality and Workmanship shall be in strict conformity with all the drawings and specifications furnished with the Purchase Orders and shall answer to the description in all respects. All supplies shall be accompanied by supplier's works inspections / test certificates duly certifying, the Stores are in strict conformity with the drawings / specifications. However, final acceptance will be subject to inspection and approval at BEML works. Once the materials are rejected and communicated to the supplier, no request shall be entertained for re-inspection or acceptance of the stores. However, BEML reserves the right to re-inspect the stores and consider acceptance at its discretion.

22. QUALITY, CONDITION OF DELIVERY:

The Supplier shall guarantee that the delivery is of good quality and free from all defects and in the case of services rendered that they are performed by skilled personnel and that new materials are used. The Supplier shall guarantee that the delivery corresponds exactly with the provisions of the agreement, the reasonable expectations of Purchaser regarding the characteristics, quality and reliability of delivery. The Supplier guarantees that the delivery is suitable for the purpose for which it is intended by its very nature or which is evident from the specifications listed and from the order.

The Supplier shall guarantee that the delivery complies with legal requirements applicable in India and other (international) Government regulations, as applicable. The supplier shall guarantee that the delivery complies with the customary norms and standards in the relevant branch of trade or industry. The supplier shall be responsible for compliance with applicable technical, safety, quality, environmental requirements and other regulations in relation to his product, packaging, and raw and ancillary materials.

23. SUPPLY OF SAMPLE: (if applicable)

The Contractor shall produce samples of all materials and shall obtain approval before he places bulk order for the material for incorporation in the works. In respect of materials for which samples are not kept or detailed specifications is not given hereinafter, such materials shall comply with the latest relevant Indian Standard Specifications published up to the date of issue of this tender. The Contractor shall on demand produce original receipts vouchers/invoices in respects of materials supplied by him.

24. INSPECTION, TESTING & CONSEQUENCE OF REJECTION:

Inspection & Testing as per PTS.

The goods and stores shall be of approved design and each part /component may be inspected and tested by the Purchaser prior to shipment and shall fully comply with relevant requirements of purchaser.

Purchaser has the right to inspect the delivery. In the event of rejection, Purchaser shall inform the Supplier accordingly and Purchaser shall be entitled to replacement or repair at its discretion or may proceed to terminate or annul the agreement. All this does not affect Purchaser's right to compensation.

In case the goods / stores are rejected at the time of inspection at BEML or the rejections are noticed at the time of further processing the supplier will be informed of these rejections. On receipt of this information the supplier shall immediately arrange to collect the rejected items at his cost and risk and arrange for the replacement of goods within the shortest possible time. Under no circumstances the supplier shall compel the Purchaser to rework the rejected goods.

Wherever the supplier has not collected the rejected items within 60 days from the date of intimation, BEML shall have the right to dispose the goods and all cost related to the cost of material, statutory levies incurred both in procurement and disposal shall be recovered from the supplier from any of the bills that are due. The supplier shall have no claims whatsoever against the Purchaser for such disposal.

Purchaser or his authorized representative shall be entitled at all reasonable times during execution to inspect, examine and test at the Supplier's premises the material and workmanship of all stores to be supplied under the Contract, and if the part of the stores are being manufactured at other premises the Supplier shall obtain Purchaser's or his authorized representative's permission to inspect, examine and test as if the said stores are being manufactured at the Supplier's premises. Such inspection, examination and testing, if made shall not release the Supplier from any obligation under the Contract.

All costs related to inspections and re-inspections shall be borne by the Supplier. The cost of inspection staff / third party specified by the Purchaser shall be borne by Purchaser, unless otherwise specifically agreed. Whether the Contract provides for tests on the premises of the Supplier or any of his Sub-contractor/s, Supplier shall be responsible to provide assistance such as, labour, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by the Purchaser only if specifically agreed.

The supplier shall give the authorized representative of the Purchaser reasonable prior notice in writing of the date on and the place at which any stores will be ready for inspection / testing as provided in the Contract

25. RAW MATERIALS ARRANGEMENT:

The supplier shall make his own arrangement to procure all raw materials required and BEML shall not be responsible for any assistance in such procurement or whatsoever.

26. IDENTIFICATION OF ITEMS / PIECES:

The supplier shall indicate / emboss / engrave, suitable identification marks (Viz. BEML stock number, supplier code number, batch no. etc.,) on each item/piece (or) on all components at convenient non-machinable place as per drawing, wherever applicable.

Also, shall indicate BEML part number, PO No. and date in all delivery documents, invoices and correspondence, wherever applicable.

27. PACKING AND MARKING:

- a) Seaworthy Packing to be in such a way that it should avoid transit/storage/handling damage.
- b) The supplier shall package the deliveries safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by Sea / Air / Rail/ Road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures / hooks and sling marks as may be required for easy and safe handling by mechanical means.

- c) The packing, shipping, storage and processing of the delivery must comply with the prevailing legislation and regulations concerning safety, the environment and working conditions. Items packed with raw / solid wood packing material shall be treated as per ISPM – 15 (fumigation) and accompanied by Phytosanitary / Fumigation certificate. If safety information sheets exist for a delivery or the packaging, the Supplier must always supply these sheets direct (at the same time).
- d) Supplier shall indicate approximate net weight, gross weight and dimension of the package to enable BEML to determine the mode of dispatch. The packing should withstand the weather conditions during transit. The packing should not damage the contents in the package while transporting and handling. The safety and handling precautions should be clearly marked on the packages. The packing should be easily transportable without any damage. Each consignment should have individual packing list.
- e) Marking shall include the following information in sequence on the frame commensurate with the size of package.

**To: M/s. BEML Limited
C/o CMRL Madhavaram Depot
Near Tamil Nadu Veterinary & Animal Science University
Madhavaram,
Chennai – 600051,
Tamil Nadu State, India.**

Purchase order number:

Shipper's mark:

Package number:

Identification number:

Caution marks, if applicable:

Net weight, Gross weight and cubic measurement (CBM), whichever is appropriate for the shipment.

28. APPLICABLE LAWS AND JURISDICTION OF COURTS:

Indian laws both substantive and procedure, for the time being in force including modifications thereto, shall govern Contract. The competent Indian courts shall have sole jurisdiction over disputes between purchaser and the Supplier.

29. JURISDICTION:

Courts of Bangalore alone shall have jurisdiction to decide any issue / dispute arising out of the Arbitration or this Purchase Order in exclusion of all other Courts. However, jurisdiction of any other court may be accepted by mutual discussion and agreement by and between BEML and the Supplier.

30. ARBITRATION:

Any disputes and differences that may arise between the parties in connection with this Agreement/Contract shall be settled by the parties amicably by way of mutual discussion / negotiation / conciliations. In case parties fail to settle the dispute amicably, then the dispute or difference shall be referred to India International Arbitration Centre for resolution. The Arbitration Tribunal shall consist of Sole / three Arbitrator /s. The Arbitrator /s shall be appointed and Arbitration proceeding shall be

conducted in accordance with the provision of India International Arbitration Centre (Conduct of Arbitration) Regulations, 2023.

During Arbitration, "Supplies under this Purchase Order, if reasonably possible, may continue by mutual agreement during the dispute / Arbitration proceedings"

31. INTELLECTUAL PROPERTY RIGHTS; LICENSES:

If any Patent design, trademark or any other intellectual property rights apply to the delivery or accompanying documentation, Purchaser shall be entitled to the legal use thereof free of charge by means of a non-exclusive, worldwide, perpetual license. All intellectual property rights that arise due to the execution of the delivery by the Supplier and by its employees or third parties involved by the Supplier for performance of the agreement belong to Purchaser. The Supplier shall be obligated to do everything necessary to obtain or establish the above-mentioned rights. The Supplier guarantees that the delivery does not infringe on any of the intellectual property rights of third parties. The Supplier shall also be obligated to do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of any (alleged) claims by third parties.

The Supplier shall defend and indemnify BEML against any claims, costs or expenses incurred by reason of any infringement of alleged infringement of any letters, patent, registered design, trademarks or trade name by the use of sale of the stores / goods /material and against all costs or damages which BEML may undergo in legal action for such infringement or for which the BEML may become liable in any such action.

The supplier shall at all times indemnify BEML and shall take all risk of accidents or damage which causes a failure of the supply. The supplier shall comply with the provisions of Contract Labour (Regulation and Abolition) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules 1971 as modified from time to time wherever applicable and shall also indemnify the Company from and against any claims under the aforesaid Act and the Rules.

32. BRIBES AND GIFTS:

Any bribe, commission, gift or advantage given, promised or offered by or on behalf of the supplier or his partner, agent or servant or anyone on his or their behalf to any officer, servant, representative or agent of BEML or any person on his or their behalf in relation to the obtaining or to the execution of or any other contract with BEML shall in addition to any criminal liability which the supplier may incur, subject the supplier to the cancellation of the PO and all other contracts with BEML and also to payment of any loss or damage resulting from any such cancellation to like extent as is provided in case of cancellation under **Clause-15** hereof. Any question or dispute as to the committing of any offence under the present clause shall be settled by BEML in such manner and on such evidence of information as they may think fit and sufficient and their decision shall be final and conclusive.

33. FORCE MAJEURE CLAUSE:

Notwithstanding anything contained in the Contract, neither the Supplier nor the Purchaser shall be held responsible for total or partial non-execution of any of the contractual obligations, shall the obligation become unreasonably onerous or impossible due to occurrence of a 'Force Majeure' conditions which directly affect the obligations to be performed by the Purchaser or the Supplier. Such events include war, military operations of any nature, blockages, revolutions, insurrections, riots, civil commotions, insurgency, sabotage, acts of public enemy, fires, explosion, epidemics, quarantine restrictions, floods, earthquake, or acts of God, restrictions by Govt. authorities over which the Supplier or the acts on which the Purchaser has no control.

The party claiming to be affected by Force Majeure shall notify the other party in writing without delay, within two weeks on the intervention and on the cessation of such circumstance. Extension of time sought by the Supplier along with supporting evidence and so granted by the Purchaser for the supply / work affected, if any, shall not be construed as waiver in respect of remaining deliveries. In the case of vendor seeking force majeure then it is discretion of BEML to consider the same based on authenticate document.

Notwithstanding above provisions, Purchaser shall reserve the right to cancel the order/ Contract, wholly or partly, in order to meet the overall delivery schedule and make alternative arrangements including arrangements with third party for completion of deliveries and other schedules. Purchase may takeover partly processed material at a mutually agreed price.

34. FALL CLAUSE:

- a) The prices charged for the stores supplied under this P.O by the supplier shall in no event exceed the lowest price at which the supplier sells the stores of identical description to any other BEML Office / Division during the pendency of this PO.
- b) If at any time, during the said period, the supplier reduces the sale price of such stores or sells such stores to any other BEML Office / Division at a price lower than the price chargeable under this P.O and the price payable under this PO for the stores supplied after the date of coming into force of such reduction shall stand correspondingly reduced.

35. NON-DISCLOSURE AND INFORMATION OBLIGATIONS:

The supplier shall provide Purchaser with all information pertaining to the delivery in so far as it could be of importance to Purchaser. The Supplier shall not reveal confidential information to its own employees not involved with the tender / Contract & its execution and delivery or to third parties. The supplier shall not be entitled to use the Purchaser's name in advertisements and other commercial publications without prior written permission from Purchaser.

36. ASSIGNMENT OF RIGHTS AND OBLIGATIONS; SUBCONTRACTING:

The supplier is not permitted to sub-contract the delivery or any part thereof to third parties or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from Purchaser. Any permission or approval given by the Purchaser shall, however, not absolve the supplier of the responsibility of his obligations under the contract.

37. DIVISION OF PATRONAGE:

BEML at its discretion reserves the right to issue order for 100% quantity on L1 or on division of Patronage. BEML reserves the right to avail the price offered for full quantity of the tender or part thereof or ignore the offer completely without assigning any reason whatsoever.

38. INTEGRITY PACT:

The bidder / contractor should upload duly signed & stamped **Integrity Pact** (if the tender value is more than or equal to Rs.1.00 crore) as per prescribed format (**APPENDIX- A**) on plain paper as part of technical bid.

E-bid no: 6300040098

The bidder should put their authorized signature in the Integrity pact as a Contractor / bidder with their company seal along with witness's signature, name & address. **The agreement shall be in full as per format enclosed on a plain A4 size paper duly signed & stamped on all pages.**

The Integrity Pact envisages an agreement between the prospective tenderer and the buyer committing the persons/officials of both the parties not to exercise any corrupt influence on any aspect of the contract.

For the successful bidder, the integrity pact will remain valid up to 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded.

The Central Vigilance Commission (CVC) has appointed Shri Kasividyasagar & Shri Lt. Gen. Abhay Krishna as Independent External Monitor (IEM) to oversee the implementation of the Integrity Pact.

Address of IEM is as below:-

Shri Kasividyasagar, IAS (Retd.)
House no. 55,
Dream valley gated community,
Manikonda, Hyderabad – 500089.
Mobile no: +91 9771407778
Email: kasividyasagar@gmail.com

Shri Lt. Gen. Abhay Krishna, (Retd.)
4A-902, Gurjinder Vihar,
AWHO Township, Sector CHI-1
Greater Noida, UP - 201310
Mobile no: +91 9871234353
Email: abhayabk@gmail.com

39. GST TERMS & CONDITIONS:

1. The Supplier is required to comply with all the applicable provisions of the GST Laws/Rules/Notifications/Circulars and to furnish required documents/details within the prescribed time limit to enable BEML to claim the benefits of GST Input Tax Credit or any other benefit.
2. The Supplier is required to furnish proper Invoice/Supplementary Invoice/Debit Note/Credit Note in the form and manner prescribed under GST Laws/Rules/Notifications/Circulars containing all the particulars mentioned therein and within the prescribed time limit as per prevailing GST Laws/Rules/Notifications/Circulars. In case of non-compliance by the Supplier, BEML shall not make any payment towards GST against such invoice until it is complied with within the timeline prescribed under GST Laws/Rules/Notifications/Circulars, and also subject to BEML being in a position to avail GST Input Tax Credit as per applicable GST Laws/Rules/Notifications/Circulars.
3. In case of discrepancy in the data uploaded by the Supplier in the GSTN portal or in case of any shortages or rejection in the supply, BEML will notify the Supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue Credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the supplies, within the prescribed time limit to enable BEML to avail GST Input Tax Credit.

4. In case, the availment of GST Input Tax Credit by BEML is delayed for any reason other than those attributable to BEML, interest at applicable rate as prescribed under GST Laws/Rules/Notifications/Circulars for such delays shall be recovered from the Supplier.
5. In case Supplier delays declaring such invoice in his GST Return and GST Input Tax Credit availed by BEML is denied or reversed subsequently as per GST Laws/Rules/Notifications/Circulars, GST amount paid by BEML towards such reversal as per GST Laws/Rules/Notifications/Circulars shall be recoverable from Supplier along with applicable interest.

N

If BEML has not paid/short paid to the Supplier for any invoices within the time limit prescribed under GST Laws/Rules/Notifications/Circulars due to non-compliance of GST Laws/Rules/Notifications/Circulars by Supplier or any other reason attributable to Supplier and leads to any GST Input Tax Credit reversal by BEML, any losses/expenses/cost/penalty, etc., incurred by BEML shall be recoverable from the Supplier.

6. Wherever applicable, BEML will have the right to deduct “Tax Deducted at Source” at the rate prescribed under the GST Laws/Rules/Notifications/Circulars and to remit the same to the Government
7. In case of supplies made under Reverse Charge Mechanism, the Supplier needs to comply with the provisions under the GST Laws/Rules/Notifications/Circulars in terms of supply of Goods/Services and raising of invoice, so as to enable BEML to remit applicable GST to Govt., within the prescribed time limit and avail GST Input Tax Credit on the same. If the Supplier fails to comply with the above and as a result if BEML incurs any losses/expenses/cost/penalty, BEML shall be entitled to recover the same from the Supplier. Further the Supplier has to mention that “the liability of payment of GST amounting to Rs is on the Recipient of Service” in the invoice raised on BEML.
8. The Supplier is required to comply with the E-Way Bill Provisions under GST Laws/Rules/Notifications/Circulars. If the Supplier fails to comply with the said provisions and as a result if BEML incurs any losses/expenses/cost/penalty, BEML shall be entitled to recover the same from the Supplier.
9. In case of materials/goods issued to Supplier for Job Work, the Job Work Supplier is required to return the goods within the time limit prescribed in the Purchase Order. If the Job Work Supplier fails to return the goods as above, BEML will be entitled to raise a GST Supply Invoice on the Job Worker Supplier with applicable interest as per the provisions of GST Laws/Rules/Notifications/Circulars. In such cases, BEML will be entitled to recover all such GST/interest on GST /losses/expenses/cost/penalty, etc. incurred by BEML along with interest from the Job Work Supplier. Further in such cases where the GST invoice has been raised by BEML, on return of such goods after the prescribed time limit, the Job Work Supplier needs to return the same under GST invoice.
10. The Supplier have the option to give one Bank Guarantee of appropriate value after considering his estimated value of GST involved in invoices raised on BEML instead of Bank Guarantee for each Contract/Invoice. In case of payment through LC, suitable provisions/clause will be inserted while opening LC to ensure compliances of above conditions. However, if at any point of time value of such Bank Guarantee falls short of GST plus interest thereof, Supplier will have to either furnish Bank Guarantee for Differential value or such shortfall value of Bank Guarantee vis-à-vis GST plus interest thereof shall be withheld till Suppliers fulfils its obligations specified under above clauses.

BEML will be entitled to recover all losses/expenses/cost/penalty, etc. incurred by BEML along with applicable interest from the Supplier due to reasons other than those attributable to BEML.

11. If the Supplier is a Composition/Unregistered Dealer, the Supplier needs to comply with the provisions under the GST Laws/Rules/Notifications/Circulars in terms of supply of Goods/Service and raising of invoice. In case, the Supplier fails to comply with the above and as a result if BEML incurs any losses/expenses/cost/penalty, BEML shall be entitled to recover the same from the Supplier along with applicable interest.

40. TAX CLAUSE:

Any tax and/or duty, which may hereafter be imposed outside India, shall be on Supplier's account. **On the other hand, any tax and/or duty, which may hereafter be imposed in India, shall be on BEML's account.** Notwithstanding the foregoing, tax on supervising fee and/or other training fees shall be on Supplier's account, however, it shall be withheld and paid by BEML in India on behalf of Supplier according to provisions of the corporation tax law, the local inhabitant tax law and convention between Republic of India and the respective Suppliers country, for the avoidance of double taxation and the prevention of fiscal evasion with respect to taxes on income.

Where the government of the supplier's country exempts goods in export from any or all of such taxes, levies, duties on imports, the supplier shall charge the purchase price, which are exclusive of and free from such taxes, levies, and duties on imports.

Any downward revision in taxes or duties imposed in supplier's country should be informed and that benefit should be passed on to the BEML.

Any increase in statutory levies during the period wherein supplier has defaulted to effect supplies as per delivery schedule indicated in contract has to be borne by the supplier.

HSN CODE/CHAPTER ID and SAC Code details are to be indicated against each item.

TDS (Tax deducted at source) will be applicable for service purchase orders and will be deducted as per law of land. SAC (Service Account code) shall be indicated for the services /NRC that will be carried out by the supplier.

41. PROJECT IMPORT REGISTRATION:

Customs duty on input content imported by domestic bidders to manufacture tendered items.

Chennai Metro Rail Project is eligible for the concessional rate of custom Duty under chapter 98.01 of Custom Tariff Act for Project Import registration mode. In case if an indigenous supplier imports some items from outside India, the firm has to register with customs for availing concessional rate of duty i.e. 7.5% BCD plus cess, through project import registration mode.

To avail the concessional customs duty benefit, Bill of Material (BOM) of such imported material in the prescribed template (containing part number, description, qty, price, source of supply, mode of shipment – Air/Sea, port of arrival etc.,) should be submitted by bidders to BEML within 02 months from finalization of the contract for obtaining PIR sponsoring letter from CMRL. The PIR sponsoring letter should be registered by the bidders with the concerned Customs Authorities at designated Port of Arrival.

The supplier shall maintain details of concessional Custom Duty deposited with the authority and submit the following for reimbursement of Custom Duty: -

- i) Bills of Entry
- ii) Challan for deposit of Custom Duty
- iii) Declaration that the Sub-contractors/Sub-vendors have neither claimed the deemed export benefit nor they will claim the same.

42. INSURANCE:

BEML has insured the Material being procured and the risk Coverage under the MCE policy shall commence from the moment of the first goods/consignments are lifted, mechanically or manually or otherwise, from anywhere in the world for loading onto the transport (all modes included) and remain in force during transit up to BEML's works and designated CMRL depot available till handing over of equipments with 24 months DNP/DLP.

43. RETENTION MONEY:

Retention money shall be deducted at the rate of 5% of Invoice, excluding taxes & duties, in respective currencies and up to the cumulative value equal to 5% of the Accepted Contract Amount, excluding taxes & duties.

Upon the request of the Supplier, the purchaser may release the withheld retention money on submission of Bank Guarantee for an equivalent amount in respective currencies from a Public sector bank (PSB) of India or Scheduled Commercial Banks in India or any Japanese Bank as listed under Schedule of Commercial Banks by The Reserve Bank of India (RBI),

Upon completion of DLP / DNP of subject item, Retention money amount or the Retention money Bank Guarantees shall be certified BEML T&C with concurrence of CMRL for releasing to the Supplier.

44. SERVICE SUPPORT:

The firm has to provide the service support during CMC period from India. In case of Foreign suppliers, the firm has to submit the undertaking that service support during CMC period will be provided from India.

ANNEXURE – III: KEY DELIVERY DATES (CMRL)

1	2	3	4	
Sl.No	Key Date Description	End date of Completion as required by end used CMRL based on ARE02A contract	Delay Damages that will be levied from supplier for each day of delay beyond end date as in column 3 (INR Lakhs per day)	
			1 to 28 days	From 29 th day onwards
1	Submission of Final Design Documents, Design, Approval with NONO/NOWC, Manufacturing, FAT, Delivery of RRV at site of full order quantity	25 th May'2026	INR 1 Lakh per day	INR 10 Lakh per day
2	Completion of Installation, Commissioning, Testing, Trails, Training, Handing Over of RRV of full order quantity	30 th June'2026	INR 1 Lakh per day	INR 10 Lakh per day

(To be executed on plainpaper and applicable for all tenders of value_ Rs. 1 Crore and above)

INTEGRITY PACT

Between

**BEML Limited (BEML) herein after referred to as
“The Principal”**

And

.....herein after referred to as
“The Bidder/Contractor”

Preamble

The Principal intends to award, under laid down organizational procedures, contract/s for

..... The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relations with its Bidder(s) and/ or Contractor(s). In order to achieve these goals, the Principal will appoint an independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - b) The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - c) The Principal will exclude from the process all known prejudiced persons.
- (2) If the principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 – Commitment of the Bidder(s)/ contractor(s)

- (1) The Bidder (s)/Contractor(s) commit themselves to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - b) The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
 - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further, the Bidder(s) /Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or documents provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/ Representatives in India, if any. Similarly, the Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign Principals, if any. Further, as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is placed at **Appendix (A-1)**.
 - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (2) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder (s)/Contractor(s), before or during execution has committed a transgression through a violation of Section 2, above or any other form such as to put his reliability or creditability in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or act as per the procedure mentioned in the "Guidelines on Banning of business dealings".

Section 4 – Compensation for Damages

- (1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 – Previous Transgression

- (1) The Bidders declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprises in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender processor action can be taken as per the procedure mentioned in “Guidelines on Banning of business dealings”.

Section 6 – Equal treatment of all Bidders /Contractors /Sub-contractors

- (1) The Bidder(s)/Contractor(s) undertaker(s) to demand from all sub contractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
- (2) ThePrincipalwillenterintoagreementwithidenticalconditionsasthisonewithall Bidders, Contractors and subcontractors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 – Criminal charges against violating Bidder(s)/ Contractor(s) / Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or of the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer

Section 8 – Independent External Monitor/ Monitors

- (1) ThePrincipalappointscompetentandcredibleIndependentExternalMonitorforthisPact.

The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement
- (2) The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. It will be obligatory for him to treat the information and documents of the Bidders/Contractors as confidential. He reports to the CMD, BEML.
- (3) The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s) /Subcontractor(s) with confidentiality.
- (4) ThePrincipalwillprovidetotheMonitorsufficientinformationaboutallmeetings among the parties related to the Project provided such meeting should have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- (5) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so

inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit on-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

- (6) The Monitor will submit a written report to the CMD, BEML, within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise submit proposals for correcting problematic situations.
- (7) If the Monitor has reported to the CMD, BEML, a substantiated suspicion of an offence under relevant IPC/PC Act, and the CMD, BEML has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- (8) The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

This pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by CMD of BEML

Section 10 – Other provisions

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Corporate Office of the Principal, i.e. Bangalore.
- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- (5) The bidder shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter.
- (6) In case of joint venture, all the partners of the joint venture should sign the Integrity Pact. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor. It is to be ensured that all sub-contractors also sign IP.
- (7) In the event of any dispute between the management and the contractor relating to those contracts where Integrity Pact is applicable, in case, both the parties are agreeable, they may try to settle the dispute through mediation before the panel of IEMs in a time-bound manner. If required, the organization may adopt any mediation rules for this purpose.

In case, the dispute remains unresolved even after mediation by the panel of IEMs, the

E-bid no: 6300040098

organization may take further action as per the terms and conditions of the contract.

The fees / expenses on dispute resolution shall be equally shared by both the parties.

(8) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the integrity pact will prevail

(For & On behalf of the Principal)

(Office Seal)

Place-----

Date -----

(For & On behalf of Bidder/Contractor)

(Office Seal)

Place-----

Date -----

Witness 1:

(Name & Address)

Witness 1:

(Name & Address)

Appendix A-1

(Applicable Agents / Suppliers to Sign, Seal & Upload / Submit)

GUIDELINES FOR INDIAN AGENTS OF FOREIGN SUPPLIERS

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BEML LTD shall apply for registration in the prescribed Application-Form available on www.bemlindia.in.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/remuneration/salary/retainership being paid by the principal to the agent before the placement of order by BEML LTD.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 DISCLOSURE OF PARTICULARS OF AGENTS/REPRESENTATIVES IN INDIA, IF ANY:
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offer:
 - 2.1.1 The name and address of the agents/representatives in India, if any and the extent of authorization and authority given to commit the Principals. In case the agent/representative be a foreign Company, it shall be confirmed whether it is real substantial Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/remuneration included in the quoted price(s) for such agents/representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/remuneration if any, payable to his agents/representatives in India, may be paid by BEML LTD in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
 - 2.2.1 Then amend address of the foreign principals indicating their nationality as well as their status, i.e, whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/representatives.
 - 2.2.2 The amount of commission/remuneration included in the price(s) quoted by the Tenderer for himself.
 - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BEML LTD in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/remuneration, if any payable to the agents/representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph-2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BEML LTD. Besides this there would be a penalty of banning business dealings with BEML LTD or damage or payment of a named sum.

Signature
(For & On behalf of Bidder/Contractor)

APPENDIX B**COMPLIANCE REPORT FOR PROCUREMENT TECHNICAL SPECIFICATION (PTS)**

Compliance to PTS GR/TD/7728 Latest revision				
PTS SL. No	Description	Complied	Not Complied	Remarks
1	Introduction			
2	Definitions and Abbreviations			
3	Precedence of Documents			
4	Eligibility criteria			
5	General Requirements			
6	Technical requirements (Ref : Clause 2.8 of ERTS-DM&P Part-2, Section-B)			
7	Interface Management			
8	Training			
9	Maintenance, Spares and Consumables during DLP			
10	Commitment beyond DLP Period:			
11	Availability During DLP Period			
12	DNP / DLP / Warranty			
13	List of Enclosures			
14	Submittals with Technical Offer			

APPENDIX – C

COMPLIANCE REPORT OF GENERAL TERMS & CONDITIONS

(To be submitted along with Technical Bid)

Bid Invitation No :**Firm** :**Item details** :

Sl. No.	Terms / Clause	Complied	Not Complied	Remarks
1.	GLOSSARY, DEFINITIONS & INTERPRETATIONS			
2.	SUBMISSION OF THE TENDER			
3.	SUPPLIERS SHARING LAND BORDER WITH INDIA			
4.	PREFERENCE TO MAKE IN INDIA			
5.	DELIVERY TERMS			
6.	PAYMENT			
7.	PRICE BID VALIDITY			
8.	FIRM PRICE			
9.	INSPECTION			
10.	WARRANTY			
11.	PERFORMANCE BANK GUARANTEE (PBG)			
12.	RIGHT TO VARY QUANTITIES & QUANTITY OPTION CLAUSE			
13.	LIQUIDATED DAMAGES CLAUSE			
14.	RISK PURCHASE CLAUSE			
15.	SECRECY AND CONFIDENTIALITY			
16.	AUTHORITY OF PERSONS SIGNING DOCUMENT			
17.	ACCEPTANCE OF ORDER			
18.	OTHER CONDITIONS			

19.	PRICE, INVOICING AND PAYMENT			
20.	PROGRESS REPORT			
21.	QUALITY & WORKMANSHIP			
22.	QUALITY, CONDITION OF DELIVERY			
23.	SUPPLY OF SAMPLE (If Applicable)			

Authorized signatory with company seal / stamp
APPENDIX – C

COMPLIANCE REPORT OF GENERAL TERMS & CONDITIONS

(To be submitted along with Technical Bid)

Bid Invitation No :

Firm :

Item details :

24.	INSPECTION, TESTING & CONSEQUENCE OF REJECTION			
25.	RAWMATERIALS ARRANGEMENT			
26.	IDENTIFICATION OF ITEMS / PIECES			
27.	PACKING AND MARKING			
28.	APPLICABLE LAWS AND JURISDICTION OF COURTS			
29.	JURISDICTION			
30.	ARBITRATION			
31.	INTELLECTUAL PROPERTY RIGHTS; LICENSES			
32.	BRIBES AND GIFTS			
33.	FORCE MAJEURE CLAUSE			
34.	FALL CLAUSE			
35.	NON-DISCLOSURE AND INFORMATION OBLIGATIONS			
36.	ASSIGNMENT OF RIGHTS AND OBLIGATIONS; SUBCONTRACTING			
37.	DIVISION OF PATRONAGE			
38.	INTEGRITY PACT			
39.	GST TERMS & CONDITIONS			
40.	TAX CLAUSE			
41.	CUSTOMS DUTY ON INPUT CONTENT			
42.	INSURANCE			

43.	RERENTION MONEY			
44.	SERVICE SUPPORT			

Authorized signatory with company seal / stamp

APPENDIX – D

COMMITTEMENT TO SUPPLIES

(To be submitted along with Technical Bid)

This is to certify that we M/s against SRM tender No..... as a Bidder commit that we will support BEML for requirement of any additional Equipment, Spares, Service required at the later stage i.e. from taking over of supplied equipment and upto completion of atleast 15 years from commissioning for all the equipment supplied.

Authorized signatory with company seal / stamp

CONFIDENTIALITY AGREEMENT**(To be typed on plain paper and submitted along with the technical bid)**

This Confidentiality Agreement is made and entered into between M/s BEML, (hereinafter referred to as BEML), a Govt. of India Undertaking under Ministry of Defence, having its Registered Office at BEML Soudha, No.18/1, 4th Main, Sampangirama Nagar, Bangalore – 560 027 and M/s ----- (hereinafter referred as XXXX) having its Registered Office at..... M/s. BEML, has been patronizing XXXX for components / spares listed in Annexure hereto. A need has been felt to revitalize the business relationship for mutual advantage.

- 1) It is mutually, therefore, agreed that the following shall form part of the terms and conditions for continued business:
 - a) The supplier shall not divulge to anyone else except under the authority and for the purposed of BEML, all information such as technical data, specifications, drawings, models of specimens furnished / supplied by BEML for the purpose of manufacture or in connection with developmental activities, constitute the property of BEML and the supplier shall keep them in strict confidence. This has been explicitly stated in all the details to the supplier through Purchase Order / Drawings etc., released.
 - b) The supplier shall not supply the components / spares exclusively manufactured for BEML with the Technical Data / Specifications / assistance furnished by BEML and shall not disclose my initiations, development of adaptations thereof to anyone else except with the written consent of BEML.
 - c) BEML shall be entitled to prevent breach of the above and to claim damages in case of any breach. It is hereby mutually agreed that for breach of this agreement the Vendor shall pay, without actual proof of damages, a liquidated amount of Rs. 1.00 Crore (Rupees One Crore only).
 - d) **ARBITRATION:** Any disputes and differences that may arise between the parties in connection with this Agreement/Contract shall be settled by the parties amicably by way of mutual discussion / negotiation / conciliations. In case parties fail to settle the dispute amicably, then the dispute or difference shall be referred to India International Arbitration Centre for resolution. The Arbitration Tribunal shall consist of Sole / three Arbitrator /s. The Arbitrator /s shall be appointed and Arbitration proceeding shall be conducted in accordance with the provision of India International Arbitration Centre (Conduct of Arbitration) Regulations, 2018.
- 2) BEML shall be entitled to prevent breach of the above and to claim damages in case of any breach.
- 3) The Signatories hereto declare that they have the sanction and power to execute and deliver this binding agreement.

IN WITNESS WHEREOF, the parties hereto have set their respective hands to this Confidentiality Agreement on written in the presence of Witness.

For BEML**For M/s. XXXX****WITNESS:****1.****2.**

Land Border Sharing Declaration

(To be submitted in the bidder's letter head)

In-line with Department of Expenditure's (DoE) Public Procurement Division Order vide ref.
F.No.6/18/2019-PPD dated 18.07.2020 & 19.7.2020 and subsequent orders

Tender no.

Job:

"I/ we have read the clauses pertaining to Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1, 2 & 3 vide ref. F.No.6/18/2019-PPD dated 18.07.2020 & 19.7.2020) regarding restrictions on procurement from a bidder of a country which shares a land border with India. I/We hereby certify that I/ we the bidder < name of the bidder> is / are

Bidder to tick (√) against option (a) or (b) as applicable

☐ a) Not from such a country and eligible to be considered for this tender.

OR

☐ b) From such country, has been registered with the competent authority and eligible to be considered for this tender. (Evidence of valid registration by the competent authority shall be attached)

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of authorized representative of the bidder)"

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017
DATED 04TH JUNE, 2020 AND SUBSEQUENT ORDER(S)**

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,
BEML Limited, Bangalore

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04th June, 2020 and subsequent order(s).

Ref : 1) NIT/Tender Specification No:
2) All other pertinent issues till date

We hereby certify that the items/works/services offered by.....
(specify the name of the organization here) has a local content of _____ % and this meets the local content requirement for ‘**Class-I local supplier**’ / ‘**Class II local supplier**’** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

- | | |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |

...
...
...

Thanking you,
Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

**** - Strike out whichever is not applicable.**

Note:

1. Bidders to note that above format duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
3. In the event of false declaration, actions as per the above order necessary action will be taken against bidder.

Authorized signatory with company seal / stamp

CONTACT DETAILS OF THE SUPPLIER

(To be filled and submitted by supplier along with the technical bid)

1) Contact Person details in Marketing Office

- (a) Name :**
- (b) Designation :**
- (c) Telephone :**
- (d) Fax :**
- (e) Mobile :**
- (f) Email :**

2) Head Office :

3) Complete address

including the website :

4) Details of the proposed plant from

where item is to be supplied :

5) Complete address of the Plant

including Website :

6) Contact person details in plant

- (a) Name :**
- (b) Designation :**
- (c) Telephone :**
- (d) Fax :**
- (e) Mobile :**
- (f) Email :**

7) Bank Details: (Will used during L/C Execution)

- a) Name of the Bank :**
- b) Full Address of the Bank :**
- c) Suppliers Account Number and Type :**
- b) IBAN No :**

e) Swift Code

:

APPENDIX – I**DELIVERY SCHEDULE****Required Delivery Schedule:** Diesel Operated Relief & Rescue Vehicle (RRV) including DNP/DLP

Sl No	Part No / Description	Schedule	Qty.
1	Submission of Final Design Documents , Design Approval with NONO / NOWC, Manufacturing, FAT, Delivery of Diesel Operated Relief & Rescue Vehicle (RRV) at Site	March 2026	1
2	Completion of Installation, Commissioning, Testing Trails, Training, Handing over of (RRV)	April 2026	1

Note:**Delivery Address:**

M/s. BEML Limited,

C/o CMRL Madhavaram Depot,

Near Tamil Nadu Veterinary & Animal Science University

Madhavaram,

Chennai – 600051,

Tamil Nadu State, India

PERFORMANCE BANK GUARANTEE

Bank Guarantee No.....
Dated
Amount
Valid upto
Claim upto

The General Manager (Materials- Management)
BEML
Bangalore Complex
PB No 7501
New Thippasandra
Bangalore 560075

1. This deed of Guarantee made this day of..... (Month & year) between Bank of (Hereinafter called the "Bank") of the one part, and BEML LIMITED (Herein after called "the Employer") of the other part.
2. Whereas BEML LIMITED has awarded the contract for..... (Name of work as per PO) (Herein after called the "Contract") to..... (Name of the Contractor) (Herein after called "the Contractor").
3. AND WHERE AS the Contractor is bound by the said Contract to submit to the Employer a Performance Security for a total amount of..... (Amount in figures and words).
4. Now, We the Undersigned.....(Name of the Bank) being fully authorized to sign and to incur obligations for and on behalf of and in the name of.....(Full name of Bank), hereby declare that the said Bank will guarantee the Employer the full amount of Rs.....(Amount in figures and words) as stated above.
5. NOW THEREFORE, We hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor and we here by unconditionally, irrevocably and without demur undertake to immediately pay to the Employer upon first written demand and without cavil or argument, any sum or sums within limits of.....(Amount of Guarantee)as aforesaid without reference to the Contractor and without your needing to prove or show grounds or reasons for your demand for the sum specified therein. The Bank shall pay to the Employer any money so demanded notwithstanding any dispute/disputes raised by the Contractor in any suit or proceeding spending before any Court, Tribunal or Arbitrator/s relating thereto and the liability under this Guarantee shall be absolute and unequivocal.
6. This Guarantee is valid till (The initial period for which this Guarantee will be valid must be before at least 6-months(six months)longer than the anticipated expiry date of defect liability period / Warranty period as stated in Clause 11 of Annexure IV - Notice Inviting Tenders.
7. At any time during the period in which this Guarantee is still valid, if the Employer agrees to grant a time extensiontotheContractororiftheContractorfailstocompletetheWorks within the time of completion as stated in the Contract, or fails to discharge himself of the liability or damages or debts as statedunderPara5, above, it is understood that the Bank will extend

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this Guarantee under the same conditions for the required time on demand by the Employer and at the cost of the Contractor.

8. The Bank agrees that no change, addition, modifications to the terms of the Contract Agreement or to any documents, which have been or may be made between the Employer and the Contractor, will in no way release us from the liability under this Guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification to the Bank.
9. The Guarantee herein before contained shall not be affected by any change in the Constitution of the Bank or of the Contractor.
10. The neglect or forbearance of the Employer in enforcement of payment of any moneys, the payment whereof is intended to be here by secured or the giving of time by the Employer for the payment hereof shall in no way relieve the bank of their liability under this deed.
11. The expressions "the Employer", "the Bank" and "the Contractor" herein before used shall include their respective successors and assigns.
12. Notwithstanding anything contained herein:
 - (a) Our liability under this Bank Guarantee shall not exceed Rs.....
(Rs.....)
 - (b) This Bank Guarantee shall be valid up to.....
 - (c) We are liable to pay the Guarantee amount or part thereof under this Bank Guarantee only & only if you serve up on us a written claim or demand on or before

In witness whereof I/We of the bank have signed and sealed this Guarantee on the.....day of.....(Month & year) being here with duly authorized.

For and on behalf of the.....Bank.

Signature of Authorized Bank officials.

Name :.....

Designation :

Stamp/Seal of the Bank.....

Signed, sealed and delivered for and on behalf of the Bank by the above named.....in the presence of:

Witness1.

Signature.....

Name.....

Address.....

Witness2.

Signature.....

Name.....

Address.....

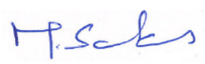
	BEML LIMITED BANGALORE	DOC. No.	GR/TD/7728
		DATE	24.04.2025
		REV. No.	00
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CMRL ARE02A

Procurement Technical Specification

**For DIESEL OPERATED RELIEF & RESCUE VEHICLE (RRV) WITH
RERAILING RESCUE EQT & AUXILARY TRUCK**

for CMRL – Madhavaram Depot with 3 Years DLP

Approved	24.04.2025	Sasikumar M	
Checked	24.04.2025	Shivakumar SB	
Prepared	23.04.2025	R.Iyyapillai	
	Date	Name	Signature

	CMRL ARE02A Procurement Technical Specification for DIESEL OPERATED RELIEF & RESCUE VEHICLE (RRV) WITH RERAILING RESCUE EQUIPMENT & AUXILARY TRUCK	DOC. No.	GR/TD/7728
		DATE	24.04.2025
		REV. No.	00
		PAGE NO.	2 / 33

REVISION DETAILS

REV. NO.	CLAUSE NO.	PAGE	CHANGES	DATE
0	-	-	First Release	24.04.2025

	CMRL ARE02A Procurement Technical Specification for DIESEL OPERATED RELIEF & RESCUE VEHICLE (RRV) WITH RERAILING RESCUE EQUIPMENT & AUXILARY TRUCK	DOC. NO.	GR/TD/7728
		DATE	24.04.2025
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1. Introduction

This document describes the technical requirement of DIESEL OPERATED RELIEF & RESCUE VEHICLE (RRV) WITH RERAILING RESCUE EQUIPMENT & AUXILIARY TRUCK to be procured by BEML for CMRL Metro Phase 2 Project (Corridor 3, Corridor 4, Corridor 5) contract for Chennai Metro Rail Corporation Limited.

The scope of Works under this contract is for Design, manufacture, Supply, delivery (at Madhavaram depot site), installation, testing and commissioning, training, maintenance, supply of operation & maintenance manuals, supply of spares parts and consumables, Special tools & fixtures, Software for periodic, preventive and corrective maintenance during 3 years DLP and spares support after DLP for 15 years for the Diesel Operated Relief & Rescue Vehicle (RRV) With Rerailing Rescue Equipment & Auxiliary Truck mentioned above at Madhavaram Depot.

Special Note:

- All Depot Machinery and Plant given in the tender scope, shall be utilized for multiple types of rolling stocks. The above depot machinery shall be designed, manufactured, and demonstrate its compatibility during testing commissioning for **multiple rolling stocks** in CMRL phase -II project.
- The Sub-Contractor shall comply with the Interface Requirements (specified in Chapter-4 of this section VIB) and shall undertake all trials, and acceptance tests required to verify the compatibility with **multiple train fleets** at no additional cost to BEML / CMRL. Unless otherwise stated, the clause conditions specified this document shall apply to all the machines listed in Table 1-1, Table 1-2, Table 1-3 & Table 1-4 (Part 2 – Section VIB (Chapter 1)).

2. Definitions and Abbreviations

The following definitions and abbreviations are applicable to the PTS.

2.1 Definitions

- “Employer”** means Chennai Metro Rail Corporation Limited (CMRL), its legal successors and assignees.
- “Sub-contractor”** means the supplier who supplies the required DM & P equipment to BEML for CMRL ARE02A Project. Sub-contractor shall carry out the works in accordance with ERTS with regard to Diesel Operated Relief & Rescue Vehicle (RRV) With Rerailing Rescue Equipment & Auxiliary Truck.
- “Contractor”** means the persons or person appointed by the Employer to undertake the execution of the works for CMRL ARE02A project. In order to avoid misunderstanding of the roles of the Contractor in ERTS, the term “Contractor” shall be read as “Sub-contractor” for those ERTS Clauses referred to in this PTS.

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- d) **"Contract"** means the contract between Sub-contractor and BEML in relation to the supply of Diesel Operated Relief & Rescue Vehicle (RRV) With Rerailing Rescue Equipment & Auxiliary Truck for CMRL ARE02A project.
- e) **"Project Manager or Employer's Representative"** means any person nominated or appointed from time to time by the Employer to act as the Project Manager/ Employer's Representative for the purposes of the Contract and notified as such in writing to the Contractor.
- f) **"GTC / STC"** means General Terms and Conditions for Supply of DM & P equipment for CMRL ARE02A Project issued by BEML.
- g) **"BEML"** means the Contractor to procure the DM & P equipment for CMRL ARE02A project.
- h) **"ERTS"** means Employer's Requirements Technical Specification – Rolling Stock or Employer's Requirements Technical Specification - Comprehensive Maintenance Contract for CMRL ARE02A project as applicable.
- i) **"RRV"** means Relief & Rescue Vehicle
- j) **"PTS"** means BEML's Procurement Technical Specification.

2.2 Abbreviations

Abbreviation	Description
AC	Alternating Current
AMS	Asset Management System
ATP	Automatic Train Protection
BIM	Building Information Modelling
BS	British Standard
CAD	Computer Aided Design and Drafting
CD	Compact Disc
CNC	Computer Numerical Control
CMV	Catenary Maintenance Vehicle
CMC	Comprehensive Maintenance Contract
DC	Depot Contractor
DDC	Detail Design Consultants
DM&P	Depot Machinery & Plant
E&M	Electrical & Mechanical
EMC	Electro Magnetic Compatibility
EMI	Electro Magnetic Interference
ES	European Standard
FAT	Factory Acceptance Test

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GA	General Arrangement
GC	General Consultants
IMP	Interface Management Plan
IP	Ingress Protection
IT	Information Technology
LAN	Local Area Network
LED	Light-Emitting Diode
NoNO	Notice of No Objection
OCC	Operational Control Center
OCS	Overhead Catenary System
OEM	Original Equipment Manufacturer
OHE	Over Head Equipment
OHS&E	Operational Health, Safety & Environment
O&M	Operation and Maintenance
PM	Project Manager
QA	Quality Assurance
RS	Rolling Stock
SAT	Site Acceptance Test
SI	International System (of Measurement)
STC	Signalling and Train Control
Telecom	Telecommunication
TRW	Track Works Contractor

3. Precedence of Documents

The PTS shall be read in conjunction with the General Terms & Conditions (GTC) of the tender, ERGS and ERTS.

The PTS shall be read in conjunction with the General Terms and Conditions (GTC) of tender and ERTS-RS and ERTS-CMC & DP&M. To the extent that any provision of the PTS is inconsistent with any provision of the GTC, the provisions of the GTC shall prevail.

To the extent that any provision of GTC is inconsistent with any provisions of the ERTS, the provisions of ERTS shall prevail.

This PTS in no way relieves the supplier from any requirements specified in the technical specification. The complete requirements are those found in the aforesaid documents. It shall be the supplier's responsibility to ensure that equipment, documentation, and services furnished against this PTS are in full compliance with all the above documents.

However, if a conflict is discovered among any of the above documents, the following order of priority shall govern:

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Order of Precedence	Document Title
1	CMRL Phase-2 ERTS-DM&P and ERTS-CMC
2	GTC
3	PTS

The complete requirements are those found in the above documents. It shall be the subcontractor's responsibility to ensure that equipment, documentation, and services furnished against this PTS are in full compliance with all the above documents.

Also, in the event of any conflict among the requirements of particular parts of the PTS and ERTS, the subcontractor shall seek clarification with BEML prior to making a contract. After making a contract, the subcontractor shall comply with BEML's Interpretation for any discrepancies.

4. Eligibility criteria

Subcontractors / Manufacturers for the following major item of supply or services must meet the following minimum criteria, herein listed for this item:

SI No.	Minimum Criteria to be met	Form
1.	At least two similar Works, incorporating the requirement for Design, manufacture, Supply, Installation, Testing and Commissioning of Diesel Operated Relief and Rescue Vehicle with Rerailing & Rescue Equipment (RRV) for Metro Rail Projects / LRT / High Speed Rail Network / Railways, satisfactorily completed and in Operation for minimum 2 years in the duration from 1st January 2013 to bid submission end date. Proven-ness certificate (issued by end-user) of working satisfactorily outside the country of origin (for foreign company) or within India shall be submitted by the bidder.	Form Sys-17

4.1 Failure to comply with this requirement will result in rejection of the Subcontractor.

4.2 In pursuant to PCC to GCC Clause No. 4.4 of Part 3: Section VIII Particular Conditions (Part B: Specific Provisions), It is a mandatory obligation for the Contractor to obtain a Notice of No Objection (NONO) from the Employer / Engineer for the selection of Subcontractors and/or vendors for all items of Work, including for cases where the Subcontractor and/or vendor had already been named in the Contractor's Technical Bid Proposal (Part 1, Section IV, Bidding Forms, Clause 5.13 : Form SUB - Proposed Subcontractors for Major Items of Plant and Installation Service). Purchase of all materials and equipment shall be in accordance with the Standards specified in Part 2 of the Contract. Where the Contractor had proposed more than One (1) Subcontractor the Employer / Engineer reserves the right to choose the vendor and/or Subcontractor from the proposed list. If the Contractor proposes to subcontract the Depot Machinery and Plant scope, then further

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subcontracting to major Suppliers / Vendors shall also require the prior approval of the Employer / Engineer.

4.3 Unclear aspects

If any term / clause / definition is unclear in this specification, sub-contractor shall seek clarifications from design team in BEML, prior to signing contract, to confirm the same.

After signing the contract, sub-contractor shall follow the definition and opinion of design team in BEML.

5. General Requirements

5.1 Supply of Documents

5.1.1 The Sub-Contractor shall supply to BEML / CMRL a list of deliverables for the procurement, design, manufacture, Inspection, testing, installation, training, maintenance, and operation of the machine.

5.1.2 The Sub-Contractor's list of deliverables shall be submitted to BEML / CMRL as per instruction of Engineer / Employer.

5.1.3 The Sub-Contractor shall submit the following detailed documents for getting notice of no objection from CMRL (but not limited to)

- Compliance matrix
- Master Schedule Programme with all activities for entire Works
- Quality & Safety procedures and plans
- Interface Management Plan and Detailed Interface Documents.
- Detailed Design Submission for respective machine.
- General Arrangement drawing showing mounting arrangement & Foundation Drawing (to interface with depot civil Contractor appropriately).
- Installation, Testing, Commissioning and Training programs
- As-built drawings and Manufacturing drawings
- BIM model and drawings

The document “**BIM GUIDELINES FOR ASSET INFORMATION MODEL**” (Enclosure-6) shall be followed to submit the BIM model of the Depot M&P equipment in Autodesk Revit format to ensure its compliance with asset requirements & specified guidelines.

5.1.4 Manuals: The Sub-Contractor shall submit the following detailed manuals and documents for getting notice of no objection from CMRL.

- Installation / Erection manual
- Operations manual
- Training manual
- Preventive Maintenance Manual
- Trouble shooting Manual
- Testing & Commissioning manual
- Electrical and pneumatic schemes
- Spare parts catalogue including supplier details

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5.2 Installation, Inspection, Testing & Commissioning

5.2.1 General Requirements

- a) The Sub-Contractor shall put in place a full testing program to demonstrate that all the requirements of the Specification are met.
- b) The Sub-Contractor shall develop an Integration Testing & Commissioning plan to verify the machines in all modes of operation and with all necessary interfacing requirements. Test programs, methods and results shall be documented and submitted to BEML / CMRL.
- c) The Sub-Contractor shall include in the Integration Testing & Commissioning plan, methodology of ensuring safety during integration testing and commissioning and service trials.
- d) BEML / CMRL may conduct independent safety audits and will therefore require access to all the relevant design and product information. The Sub-Contractor shall provide all necessary assistance to BEML / CMRL.
- e) All the tests shall be carried out by the Sub-Contractor. BEML / CMRL shall be invited to attend as a witness. However, this does not absolve the Sub-Contractor's responsibility to test to the applicable standard and the Specification. All the costs associated with the BEML / CMRL's representative(s) witnessing of tests shall be borne by the BEML / CMRL either in India or abroad.
- f) During the execution of works, the Sub-Contractor 's support shall include, but not be limited to:
 - i) Provision of test equipment.
 - ii) Attendance of competent staff.
 - iii) Provision of test procedures.
 - iv) BEML / CMRL may request that repeat tests be carried out to simulate the failure mode of any critical hardware / software component that is deemed to have a significant effect on the safety or reliability of the system.
 - v) The Sub-Contractor shall provide any simulation equipment, required for testing or commissioning.
 - vi) The Sub-Contractor shall submit a Testing and Commissioning program for the BEML / CMRL's review.
 - vii) The Sub-Contractor shall provide details of the testing activities as specified in the Specification.
 - viii) All alterations to equipment, systems and designs shall be carried out within the scheduled time prior to installation & commissioning.
 - ix) Access shall be granted to the BEML / CMRL to any facility where installation, cutover work, or other tests are in progress.
 - x) BEML / CMRL reserves the right to access at any time the records of all pre and post installation inspection and testing of equipment. In the absence of adequate documentation, BEML / CMRL shall have the right to request the Sub-Contractor to repeat these tests to avoid problems being accumulated at subsequent phases. Testing and commissioning will not be allowed to start until the Post Installation Inspection and Testing phases are completed.

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5.2.2 Sequence of Tests

a) Type Tests is not required to be performed. However previous type test reports of similar Design shall be submitted for information of BEML / CMRL.

b) Factory Acceptance Tests (FAT):

- i) Factory acceptance test plan shall be submitted for BEML / CMRL's review. The plan shall adopt a top-down approach and describe the FAT strategy as regards to methodology, procedures to be followed and records to be submitted. Sub-Contractor shall submit the comprehensive list of specifications to be followed.
- ii) FAT plan / submission shall include the appropriate testing and inspection items for Notice of No Objection.
- iii) FAT shall demonstrate that each machine/subsystem meets its functional specification. Prerequisites, if any shall be made available by the Sub-Contractor at his own cost. For example, for UFWL FAT, a suitable wheel set should be made available by the Sub-Contractor / manufacturer at his facility for demonstrating the capabilities of the machine.
- iv) No equipment or software should be delivered to the Site until the Sub-Contractor has demonstrated to the satisfaction of the BEML / CMRL that the equipment or software conforms to the Specification by carrying out the FAT.
- v) The Site for the FAT of equipment shall be notified to the BEML / CMRL 60 days prior to commencement of the FAT. BEML / CMRL shall have the right to witness or waive- off the FAT.
- vi) Cost related to travel and stay of BEML / CMRL representatives during FAT at manufacturer site as per FAT Program will be borne by BEML / CMRL.
- vii) In case of failure of FAT, the Sub-Contractor shall be responsible for arranging Re-FAT and all the cost incurred associated with travel, accommodation, food visas and permits for BEML / CMRL and GC.

5.2.3 Pre-installations tests and inspection

- a) Prior to installation, the Sub-Contractor shall ensure that equipment delivered to Site has not been damaged in transit. Inspection and testing shall be conducted by the Sub-Contractor to determine that the equipment has not been damaged or the performance impaired in any manner subsequent to shipment.
- b) Test procedures shall be carefully planned to ensure that the work can be completed within the time available. If the time available is restricted, this planning shall include a contingency plan to be implemented if testing proceeds slower than anticipated or defects are identified, which cannot be corrected.
- c) The Sub-Contractor shall submit to BEML / CMRL a site preparation plan before installation.
- d) The Sub-Contractor shall prepare the site in all respects required for installation.

5.2.4 Post Installation Tests

- a) Site tests shall be carried out in order to verify that the installations are correct and that, when the system as a whole is connected together, they function safely as an integrated system.

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- b) All tests shall be documented, and tests results recorded. Test certificates with completed test records, which demonstrate equipment and components meet the performance requirements of the specification, shall be submitted for information.
- c) Post Installation tests shall be carried out by the Sub-Contractor before Functional Tests to demonstrate that the installation has been carried out correctly.
- d) The Sub-Contractor shall submit a Post Installation Inspection and Testing Plan prior to the commencement of the post installation inspection and testing.
- e) Inspection shall verify that equipment has been installed to the procedures and designs that have received no objection from the BEML / CMRL, and equipment is correctly located and labelled.
- f) Inspection shall verify that any false feed, temporary wiring, and redundant items have been removed and that equipment is correctly protected against interference, damage and deterioration.
- g) The Sub-Contractor shall maintain inspection records to demonstrate that each item of equipment has been inspected and found to be satisfactory and attach to this record a detailed list of any discrepancies found and remedial work carried out. Inspection records shall be kept for all installed equipment and a detailed list attached of any discrepancies.
- h) As the discrepancies are rectified, the record sheets shall be amended to record the corrections.

5.2.5 System Acceptance Tests (SAT)

- a) System Acceptance Tests shall comprise comprehensive testing of the completely assembled installation to ensure that every item has been installed, adjusted, and to demonstrate that all machines operate correctly in accordance with the Specification, perform in accordance with the Specification and the local configuration and are available for integration testing & commissioning.
- b) Prior to System Acceptance Testing, the Sub-Contractor shall submit a System Acceptance Plan to the BEML / CMRL for Notice of No Objection. The plan shall adopt a top-down approach and describe the System Acceptance strategies and processes.
- c) System Acceptance Plan shall identify a comprehensive list of specifications, standards, method statements, procedures, drawings and records to be submitted to BEML / CMRL for Notice of No Objection. The Plan shall also include a programme which identifies the dates for system acceptance submission and tests.
- d) Any tests carried out which are deemed as System Acceptance Tests shall be identified. If these tests have been carried out earlier or form the part of earlier carried tests, the same need not be repeated unless desired by the BEML / CMRL. However, these tests should be identified and included in the System Acceptance Test Plan.
- e) These tests shall be conducted in the presence of the BEML / CMRL who may decline for witness.
- f) Any defects which become apparent in the course of these tests shall be made good and modifications as approved shall be implemented and recorded. All affected equipment shall be retested and certified before the system is accepted.
- g) Prerequisites for SAT;
 - i) All documentation for the Safety Report shall be submitted to the BEML / CMRL for a Notice.
 - ii) All SAT shall be completed, and test records submitted to BEML / CMRL for a Notice.
 - iii) Facilities for the maintenance of the System shall be in place.
 - iv) SAT Plan shall be submitted to the BEML / CMRL for a Notice of at least 60 days

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before the commencement of the SAT.

h) System Acceptance Test Requirements

- i) It shall be the Sub-Contractor 's responsibility to conduct all tests and record data and restore the machines to full operational use following the SAT.
- ii) During the SAT, all interfaces with external systems other than those pertaining to the designated Sub-Contractor shall be tested.

5.2.6 Integration Testing and Commissioning

- a) On completion of testing and commissioning of the Sub-Contractor 's own system to the satisfaction of the BEML / CMRL the Sub-Contractor shall carry out all tests necessary to integrate the particular machine with all other systems of BEML / CMRL such as multiple Rolling Stock, Track, Communication / signalling and train control, Overhead Equipment, Civil, etc. and demonstrate correct operation of all internal and external interfaces as applicable.
- b) Integration Testing & commissioning plan containing the schedule of integration tests in coordination with the interface Contractor s and test procedures shall be submitted to the BEML / CMRL for a Notice of No Objection. The tests shall be carried out in coordination with the interface Contractor.
- c) The Sub-Contractor shall be required to lead in certain Integration Testing and Commissioning where such tests are required to prove the performance of system provided by the Sub-Contractor
- d) All the defects and shortfalls in the Sub-Contractor 's system discovered in the course of Integration Testing and Commissioning shall be made good and retested / performed to the satisfaction of the BEML / CMRL before the issue of Taking Over Certificate by BEML / CMRL.
- e) Testing and commissioning shall be managed without perturbation and/or interruption of operation and maintenance.
- f) BEML / CMRL may require additional tests if needed.

5.3. Site Visits & Requirements:

The Tenderer should visit and examine the Site of Supply and its surroundings and obtain for himself on his own responsibility for collecting the complete requirements that may be necessary for preparing the Tender and entering into a Contract for the proposed Supply.

- a). The Tenderer should include Cost of Cables, Cable Routing, Isolator, Circuit Breaker, lightning and all other electrical requirement from main distribution panel to the machine.
- b). The Tenderer shall plan the Foundation & Machine Layout suiting to the Depot Civil layout made by the CMRL. Any civil, E&M & requirements / modifications shall be taken care by the contractor at their own cost.
- c). Machine power rating of Diesel Operated Relief & Rescue Vehicle (RRV) With Rerailing Rescue Equipment & Auxiliary Truck should be within the power rating of **32 A & 20 A**. In the event of any conflict among the above requirements, the subcontractor shall seek clarification with BEML / CMRL prior to making a contract.
- d) The costs of visiting the Site shall be borne by the Tenderer. It shall be deemed that the Tenderer has undertaken a visit to the site of Supply and is aware of the site conditions prior to the submission of Tender.

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e) The Tenderer and any of his personnel will be granted permission by BEML / CMRL to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the Tenderer and his personnel will release and indemnify the Purchaser and his personnel from and against all liability.

f) The supplier shall be the responsible for complete installation of the equipment in the depot, required material handling equipment, tools (if any), commissioning and testing of the equipment as per relevant IS standard.

6. Technical requirements (Ref : Clause 2.8 of ERTS-DM&P Part-2, Section-B)

6.1 Purpose of the machine:

The Relief and Rescue is required to carry the re-railing, rescue device & personnel to attend the derailment of train and any other related accident on mainline as well as in depot of CMRL phase-II. The Relief and Rescue shall be driven on Road as well as on the track. Its design shall be equipped with compatible coupler for shunting up to 3 cars of multiple types of rolling stock in the depot when required.

6.2 Scope of Works:

The scope of the Works, includes the following but not limited to:

6.2.1 Design, Manufacture, Supply, Testing Training & commissioning of RRV with Re-railing and Rescue equipment. The vehicle shall be fully compatible with suitable storage racks to carry all the Re-railing & Rescue equipment as include in this contract to the required location on the CMRL phase-II alignment by rail or by road.

6.2.2 The Rescue and Re-railing Equipment compartment shall be so designed that it will be easy to retrieve the different items while working in Tunnel / Mainline / Depot etc.

6.2.3 Training of CMRL O&M staff in operations and maintenance.

6.2.4 The Contractor shall get the Registration of Rail-cum-Road Vehicle with Regional Transport Office in the name of CMRL. Also Speed Certification of Rail-cum-Road Vehicle from statutory authority / RDSO is in scope of Contractor. Necessary support shall be provided by CMRL.

6.2.5 The Contractor shall get the vehicle registered in the name of CMRL in the applicable RTO (Regional Transport Office) of Tamil Nadu.

6.2.6 The Contractor shall be responsible for all recurring and non-recurring costs required to keep the RRV eligible to travel on public roads throughout the entire duration of the Project and CMC Periods. This shall include but not be limited to vehicle fitness, permit, Insurance, pollution certificate and any taxes payable.

6.2.7 Provision for the installation of a Mobile Radio Device shall be provided in driver's cab.

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The Telecom & Radio Contractor shall supply the Radio Device and will coordinate with RRV Contractor for installation, testing and commissioning.

6.2.8 The Vehicle shall preferably be designed and manufactured in India.

Note: Indicative data for Track parameters shall be referred from Schedule of Dimensions (SOD), Part-2.

6.3 Design requirements of Relief and Rescue Vehicle:

It shall be powered by diesel engine. The rail-to-road and vice-versa changeover functions shall be easy and effortless. The Contractor shall be responsible for the design of the vehicle and any other equipment considered essential for satisfactory operation of vehicle, which shall include but not be limited to the following:

6.3.1 Engine:

- i. Minimum 4-cylinder diesel engine for high efficiency,
- ii. Minimum 170 kW capacity,
- iii. EURO VI/ Bharat Stage VI standard or latest equivalent.
- iv. Electronic accelerator, hand throttle and governed max speed.
- v. Noise dampening arrangement as per EU regulation 70/157/EU including 90/20/EU or equivalent.

6.3.2 Transmission:

- i. Synchromesh reversing transmission equipped with gear box inverter or fully synchronized automatic transmission.
- ii. Right Hand Steering wheel to suit left hand driving practice in India.
- iii. Forward and Reverse gear arrangement.

6.3.3 Brake shall consist minimum (but not limited to):

- i. Dual brake system,
- ii. Anti-lock brake system,
- iii. Parking brake,

6.3.4 Chassis:

- i. Fuel tank lockable of light material having adequate capacity for movement of vehicle for at least 150 kms of running on rail or road whichever is higher.
- ii. Front & Rear towing jaw with pin,
- iii. Anti-slip steps with handle for wind shield cleaning,
- iv. Front integral support for fitting front mounting,
- v. Air-intake pipe.

6.3.5 Electrical System:

- i. Low Maintenance Batteries, capacity as per requirements,

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ii. Centrally located electric box, protected within cab.

6.3.6 Driver's Cab / Personnel compartment

- i. Cab / Personnel compartment for accommodating 6 persons including the vehicle driver.
- ii. Separate access door for personnel compartment on both sides with safety lock. The access door shall be designed suitable to meet the requirements of its functioning inside tunnel / mainline.
- iii. Large storage compartment under dashboard,
- iv. Storage area behind driver's seat / rear cab wall,
- v. Provision of speedometer-recorder,
- vi. Driver's seat height tilt, backrest tilt and longitudinal adjustable,
- vii. Large rear widow,
- viii. Air Conditioning of driver's cab and personnel compartment for prevailing ambient temperature up to 45 °C,
- ix. Interior lighting with reading light for driver and accompanying staff,
- x. Effective windshield with wind-shield wipers, 3-setting with intermittent setting and windshield washer,
- xi. Seats with integrated safety belts,
- xii. Sun visors

6.3.7 Instruments:

- i. Vehicle shall have electric controls located in centre console,
- ii. Adjustable dashboard illumination,
- iii. Multi-combination lever,
- iv. Functions of the Levers on left and right Side of Steering Column shall consist of hand throttle, cruise control, speed limiter, exhaust brake, headlight beams, blinker, windshield wash / wipers, and horn.
- v. Large instrument panel LCD displays, and gauge shall indicate the minimum following configurations but will not be limited to:
 - gauges for Speedometer kmph, RPM,
 - brake reservoir pressure,
 - coolant temperature,
 - fuel level, hydraulic oil temperature,
 - differential locks, brake pad wear,
 - coolant level,
 - steering fluid level,
 - air filter maintenance,
 - engine oil level,
 - windshield wiper fluid level,
 - transmission gear,
 - service hour counter,
 - Km and trip Km counter, clock, etc.
- vi. Vehicle shall have facility of GPS based location monitoring system, which shall enable location monitoring of the RRV from Depot Control Centre / Operation Control Centre.

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6.3.8 Vehicle shall be fitted with Lights:

- i. Dual Lighting System (Road- Rail): The vehicle shall have 2 ways of lighting system with automatic change over when the vehicle changes from road to rail and vice-versa. When driving on rail, the vehicle uses specific light for rail driving and when on road it shall use the obligatory lights for road driving.
- ii. Headlights,
- iii. Headlight range adjustment,
- iv. Additional side indicators,
- v. Clearance lamps,
- vi. Blinkers,
- vii. Rear lights,
- viii. Fog lights,
- ix. Rear reflector reversing light,
- x. Emergency Light on the cabin of truck.

6.3.9 Speed (vehicle loaded with all rescue and re-railing equipment):

- i. Maximum Running speed on roads ≥ 80 kmph,
- ii. Maximum Running speed on rails ≥ 30 kmph

6.3.10 Vehicle shall be equipped with minimum following Accessories & Tools:

- i. Suitable no of cameras in the rear of vehicle and monitor screen in the driver's cab for reverse direction movement,
- ii. Rear mounting brackets,
- iii. Spare Wheel,
- iv. Battery main switch at battery box,
- v. Fine dust and pollen filter,
- vi. Single circuit hydraulic system,
- vii. First aid box,
- viii. Wide angle rear mirror,
- ix. Fire extinguisher, ABC Type, 5 kg - 2 Nos. with bracket,
- x. Air filling hose with manometer,
- xi. Hydraulic jack -suitable capacity,
- xii. Warning triangle,
- xiii. Signal lamp,
- xiv. Search light 2 No.
- xv. 2 nos. of tri-colour torch,
- xvi. On-board tools, wheel chokes.

6.3.11 Rail Guidance System:

- i. Rail guiding axles shall be fitted in front of the front vehicle axle and in rear of the rear vehicle axle,
- ii. Rail guiding axles shall take up part of the vehicle weight, which leads to a high safety on rails,
- iii. Full floating rail axle for running on road,

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- iv. Telescopic cylinders at front & rear rail guiding axle,
- v. Rail guiding wheel with UIC profile, minimum wheel diameter 400 mm,
- vi. Rail guiding axle to be raised and lowered by suitable and effective hydraulic pressure,
- vii. Separate hydraulic control of front and rear guide axle with pressure compensation and damping from inside the cabin,
- viii. Automatic pressure adjustment for rail guidance system,
- ix. LCD Panel in driver's cab with audio-visual warning in case of pressure decrease.
- x. Provision of cameras and monitor inside the cabin for ease in checking of proper positioning of front and rear rail wheels to help the driver in changeover from road to rail operation,
- xi. Locking of steering wheel in rail mode,
- xii. Locking of rail axles against lowering during road operation,
- xiii. The hydraulic system shall be provided with constantly pressurized control valves for maximum safety against derailment in every driving situation.

6.3.12 Hydraulic hand pump:

Hydraulic hand pump of suitable capacity shall be provided for emergency operation of rail guidance system in case of failure of vehicle hydraulic system.

6.3.13 Earthing:

Earthing connection shall be from the mounting parts to the vehicle frame. It shall be connected to flexible Cu-cable with one ball pin at the front side and one at the rear side of the vehicle.

6.3.14 Lighting system:

- i. Vehicle lighting shall be suitable for movement on rail as well as on road for both running directions,
- ii. Automatic changeover of lighting for forward and reverse,
- iii. Automatic changeover of lighting when changing between rail and road and vice versa,

6.3.15 Super Structure:

- i. The complete vehicle with its cabin and compartment for Re-railing and Rescue Equipment shall be designed to conform to the Kinematic Envelope of SOD of CMRL phase-II.
- ii. The Vehicle along with compartment for staff and all equipment dimensions shall be finalised at design stage provided all its functions are satisfactorily complied with and that the dimensions are within the SOD of the Project.

6.3.16 Bodywork construction:

- i. Bodywork construction shall be of suitable material which shall provide adequate strength and protected from the corrosion.
- ii. The Contractor shall justify the selection of material and construction in the design stage.

6.3.17 Compartment for Re-railing and Rescue Equipment and Tools

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- i. Compartment for Re-railing and Rescue Equipment and tools is to be located directly behind the personnel compartment. This compartment has the following requirements.
- ii. Compartments made of section profile, to be hinged down by means of toggle levers (with anti-skid cover inside made of light metal chequered plate).
- iii. Sliding shutters or rolling shutters shall be provided on both sides, viz. on left hand and right-hand side for convenience in working inside tunnel / mainline.
- iv. Buffers with adequate strength at the rear.
- v. Rollers immersed in the body sub frame serving as guide for the re-railing bridge.
- vi. Adequate illumination of the compartment.
- vii. Two telescopic spotlights mounted at suitable location on the vehicle.

6.3.18 Coupling System:

- i. A suitable coupler adopter / head to match Rolling stock couplers of multiple types shall be provided on each side of the RRV for coupling rail cars from both ends. RRV Contractor to interface with rolling stock Contractor for the coupler type / details.
- ii. Height of coupler shall be manually adjustable if required to match with automatic coupler height of rolling stock for proper coupling.
- iii. RRV shall also have cranked tow bar with flange at both ends.

6.4 Technical Requirements of Re-railing and Rescue Equipment:

6.4.1 Re-railing Equipment:

- i. The following Re-railing equipment shall be capable of quickly lifting, displacing, tilting and slewing into position the de-railed rolling stock of CMRL Phase-II.
- ii. The equipment shall be suitable for use in tunnel, mainline as well as on viaducts and inside depot premise.
- iii. The equipment shall be suitable for operation under dusty smoke-filled atmosphere at accident site.
- iv. The quantities of each item are listed in Appendix 1.

6.4.1.1 Power Pack for Jacks:

- i. Hydraulic Pumping Set shall be powered by Portable 4-stroke Petrol engine complying with BS VI or equivalent smoke emission norms. The engine shall develop capacity of min 4.2 HP and combined discharge of at least 2.5 lpm. All hydraulic piston pumps shall be capable of generating minimum 490 bar pressure. Bypass pressure and maximum pressure valve shall be provided. Bypass valve should switch to idle position when jacks are not in operation.
- ii. Oil tank shall have a capacity of minimum 40 litres and provided with an oil filter with optical clogging indicator, a filling filter with integral venting filter, oil sight glasses and oil drain screw with magnet insert.
- iii. The weight of pumping set including oil filled shall be less than 105 kg.
- iv. Power pack shall have carrying handles to facilitate ease of storage and transportation, even in rough areas.

6.4.1.2 Control Console or Control Table:

- i. Control Console or Control Table shall be complete with all necessary valves, controls and

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safety features including dead man switch. Control Console should have minimum four control valves for simultaneous / independent operation of lifting and lowering of four jacks. Necessary pressure gauges for pressure monitoring and safety valves shall be provided. Control Table should have colour coded hose outlet for connecting colour coded hoses to make connections to jacks. Control table should have a sturdy portable frame and the weight shall be less than 70 kg.

ii. Control Console shall be provided with separate oil flows for simultaneous or independent lifting operation and a provision of inbuilt pressure gauge for individual control valves. It should have selector valve having position for lifting and traversing for a safe re-railing process.

iii. A suitable filter capable of working under operating pressure shall be used to prevent the dust and sand from the pump unit to get into the hydraulic system during lifting / lowering operation.

iv. Separate oil flows of same quantity through each control valve shall facilitate simultaneous or independent lifting / lowering operation of jacks with ease, while eliminating chance of load falling from the jack and thus preventing accidents while rerailing due to unbalanced loads on jacks. Separate oil flows for each control valve shall also facilitate functioning of remaining jacks in case one or more jack fails.

6.4.1.3 High-Pressure hoses with QC Coupling:

i. High pressure hoses, approx. 10 m long (bound in pairs) with quick connection couplings shall be provided with oil retaining valves to prevent the leakage of oil when uncoupled with protective caps to prevent soiling.

ii. Hoses shall be colour coded for ease of connection. They should be capable of withstanding the working pressure provided by the hydraulic pump. Low-pressure hoses shall be capable to handle return oil.

iii. The hoses shall be capable of coupling and uncoupling even under pressure without oil loss.

6.4.1.4 Telescopic Jack with Base Plate:

i. Telescopic jacks of following capacity and specification shall be supplied:

a) Capacity 60/30 Tons, close height max. 465 mm, stroke min. 500 mm

b) Capacity 60/30 Tons, close height max. 250 mm, min stroke 185 mm

ii. The telescopic jacks shall have hydraulically releasable non-return valve for safe holding of the load even in the event of hose ruptures. The jacks shall also have over pressure valves.

iii. The telescopic jacks shall have carrying handles, colour coded connections, working pressure of minimum 300 kg/cm² and weight less than 35 kg.

iv. Jacks with integrated Base Plates or separate Base Plate are acceptable to ensure optimum stability during the operation of lifting / traversing. In case separate Base Plates are proposed, price of Jacks shall be inclusive of Base Plates.

6.4.1.5 Displacement Jacks or Auto Traversing Jack:

i. Displacement Jacks shall be of minimum 12/6 T capacity (12 T for pushing, 6 T for pulling), closed height max. 575 mm, stroke min. 350 mm with steel counter support. The working pressure shall be minimum 300 kg/cm². The displacing jack shall have integral oil retaining valves, colour coded connections and the weight shall be less than 25 kg.

ii. Alternatively, Auto Traversing Jack of adequate capacity can be provided. The Traversing

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Jack shall have single point control from the Control Table.

6.4.1.6 Re-Railing Bridges and Bridge Coupling:

- i. Re-Railing Bridges shall have the carrying capacity of 60 ± 5 Tons for the following dimensions:
 - ii. 3.30 m length,
 - iii. 2.20 m length,
 - iv. 1.10 m length.
- v. The Re-railing bridges shall be fitted out with carrying handles and mounting points for bridge couplings.
- vi. The maximum weight for the longest bridge shall be less than 180 kg.
- vii. Bridge couplings shall be suitable for joining together two Re-Railing Bridges and shall be compatible to the loading capacity and height of Re-Railing Bridges.

6.4.1.7 Roller Carriages:

- i. Roller carriages shall have a capacity of 60 ± 5 T with removable top plate. The height shall be less than 110 mm (without plate) and 140 mm (with plate). The weight shall be less than 60 kg (without plate) and 85 kg (with plate). The width shall be compatible and suitable to operate with Re-railing Bridge.
- ii. The Roller Carriages shall have carrying handles. It shall be equipped with low friction rollers and guiding pin to ensure a linear movement.
- iii. Roller carriages shall be equipped with Counter supports, stopping device with carrying handle and one distance bar having an adjustable length to couple two roller carriages.

6.4.1.8 Tilting Jack:

- i. Tilting jack shall have 20 T capacity for pulling and have a height of 575 ± 25 mm, working pressure shall be minimum 300 kg/cm², stroke minimum 400 mm with hooked wheel stop. Tilting jack shall be complete with accessories and suitable for quick re-railing of single wheel or car.
- ii. The tilting jacks shall have carrying handles, colour coded connections and the weight shall be less than 25 kg.

6.4.1.9 Accessories:

- i. Lifting cable ladder complete: The lifting cable ladder shall be complete with accessories. The carrying capacity is 40 ± 5 T with factor of safety not less than 3. The length shall be at least 3m.
- ii. Holding Rope: The holding rope shall be complete with accessories. The carrying capacity is 40 ± 5 T with factor of safety not less than 3m.
- iii. D-Shackles: D Shackles shall be complete with accessories and capacity is 40 ± 5 T with factor of safety not less than 3m.

6.4.1.10 Single Piston Claw Jack (Step Jack):

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- i. Single Piston Claw jack shall have a minimum capacity of 35 T, working pressure shall be minimum 300 kg/cm², height with claw minimum 1150 mm and accessories including following:

i. Head Piece to Single piston claw jack	2 Nos.
ii. Round Head Piece to Single piston claw jack	2 Nos.
iii. Rocker bearing support (Swivel Radius Plate) to Single piston claw jack.	2 Nos.

- ii. The single piston step jack shall be provided with carrying handles, colour coded connections and the weight shall be less than 70 kg.

6.4.1.11 Axle Pusher:

Axle pusher unit shall be used for movement of wheel resting on the rail by a flange or for lateral displacement of the lifted vehicle consisting of two arms with hooks and with a crossbeam of light metal alloy.

6.4.1.12 Auxiliary Trolley 25 T Capacity:

i. Auxiliary Trolley shall be suitable for insertion below wheels of bogie of Rolling Stock to carry it to depot for wheel re-profiling as and when need arises due to wheel skidding or any other reason. Its construction shall be such that there is no infringement for its placement beneath bogie and wheel and during its movement while carrying skidded wheel.

ii. Auxiliary trolley shall consist of side sections with rollers and carrying handle, connecting tubes suitable for a 1435 mm track gauge, rated carrying capacity of 16 T and maximum capacity of 25 T. It shall have its maximum towing speed as 25 km per hour. The maximum weight of any individual part of the Equipment in dis-assembled state shall not be more than 70 kgs for ease in carrying manually. If however, the equipment is supplied in fully assembled state which cannot be dis-assembled the total weight of the equipment shall not be more than 150 kgs."

6.4.1.13 Hauling Device:

i. Hauling Device, capacity min. 22 T shall be complete with accessories including following:

- a) Pulling jack: 1 No.
 - b) Fastening Rope: 1 No.
 - c) Pulling Rope: 1 No.
 - d) Retaining Rope: 1 No.
 - e) Rail Block: 2 Nos.
 - f) Wedges: 4 Nos.
- ii. The diameter of ropes shall be between 25 mm to 32 mm.

6.4.1.14 Plates and Boards:

i. The following plates and boards, suitable to take the load while the jacks are used to lift load, are to be supplied:

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- ii. Steel plates with two handles each, size 800 x 300 x 30 mm – 2 Nos
- iii. Steel plate with handles, size 500 x 250 x 20 mm – 1 No
- iv. Hard wood boards, size 700 x 350 x 60.mm – 14 Nos
- v. Hard wood boards size 700 x 350 x 80 mm – 9 Nos
- vi. Hard wood boards, size 300 x 120 x 50 mm – 4 Nos
- vii. Hard wood blocks, size 300 x 120 x 30 mm – 6 Nos

6.4.2 Rescue equipment:

The quantities of each rescue item are given in Appendix 1.

6.4.2.1 Rescue Devices:

- i. Rescue devices shall comprise the following items:
 - a. Hydraulically Operated Cutter with maximum Cutting Force being at least 600 kN and adequate for cutting 5 mm thick Steel Sheet SS 301LN- HT. The weight of the cutter shall not be more than 15 kgs.
 - b. Hydraulically Operated Spreader with maximum Spreading Force being at least 300 kN and adequate for spreading 5 mm thick Steel Sheet SS 301LN- HT. The weight of the spreader shall not be more than 20 kgs.
- ii. The Contractor shall arrange the samples of above material, viz. SS 301LN-HT 5 mm thick, for FAT at OEM's works and for acceptance tests at Depot site.
- iii. Hydraulically operated cutter and spreader shall be complete with a pair of 10 m long high pressure hoses. In addition, the following accessories need to be supplied:
 - a. two pairs of replacement blades for cutter,
 - b. two pulling chains, two pairs of spare tips and two pairs of peeling tips for spreader.

6.4.2.2 Power Pack for Hydraulic Cutter and Spreader:

- i. The hydraulically operated cutter and spreader shall be operated with a power pack of 4-stroke petrol engine for their independent simultaneous use for a minimum of 2 hrs continuously.
- ii. The capacity of power pack shall be at least 2.1 kW.
- iii. The weight of power pack of 4-stroke petrol engine shall not be more than 30 Kg including full filled tank with fuel.
- iv. Engine of the Power pack shall comply with the Euro VI / Bharat Stage VI smoke emission norms.

6.4.2.3 Airbags:

Airbags of following capacity shall be supplied:

- i. Lifting capacity : 300 ± 10% kN,
- ii. Lifting height : 350 ± 10% mm

6.4.2.4 Compressor:

- i. Pneumatic air compressor shall have displacement of at least 230 lpm with in-built air receiver capacity of at least 10 litres at minimum 10 bar pressure for inflating air bags. Compressor shall be provided for connecting and operating 2 airbags at a time and reinforced

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air hoses at-least 10 m long for connection between air compressor and the air - bags.

ii. Engine of the Compressor shall be with capacity of at least 2.1 kW and complying with smoke emission norms of Euro VI / Bharat Stage VI shall be supplied.

iii. Two set of hoses shall be supplied in different colour.

6.4.2.5 Portable Inflatable Lights:

Portable inflatable lights shall be suitable for illumination of about 10,000 m², using 400 W HPMH or any other superior lamp mounted at height of about 4.5 m from ground with its independent diesel / petrol operated light weight power pack (Generator) for electricity and air.

6.5 Details of Quantities for Re-Railing & Rescue Equipment:

The quantities of different items of Re-railing & Rescue equipment as required to be supplied under the Contract are given in Appendix 1.

Appendix 1 Quantities of Items to be supplied.

S. No.	Description of Item	Unit	Qty.
1	Power Pack for Jacks	Nos.	2
2	Control console or Control Table	No.	1
3	High pressure hoses with Quick connection coupling	Pairs	7
4	Telescopic Jack with base plate, 60/30T capacity, maximum closed height 465 mm, minimum stroke 500 mm	Nos.	4
5	Telescopic Jack with base plate, 60/30T capacity, maximum closed height 250 mm, minimum stroke 185 mm	Nos.	2
6	Displacing / Auto Traversing Jacks	Nos.	2
7	Re-railing bridge 3.30 m long,	No.	1
8	Re-railing bridge 2.20 m long,	No.	1
9	Re-railing bridge 1.10 m long,	No.	1
10	Bridge coupling	Nos.	2
11	Roller Carriages with distance bar	Nos.	4
12	Tilting jack 20 T Capacity	Nos.	2
13	Accessories		
a)	Lifting cable ladder	Nos.	2
b)	Holding rope	Nos.	2
c)	D-Shackles	Nos.	2
14	Single piston Claw jack with claw, 35T, with accessories	Set	2
15	Axle pusher	Nos.	2
16	Auxiliary Truck 25 T capacity	No.	1
17	Hauling device 25T capacity	Set	1
18	Plates & Boards	Set	
19	Rescue device consisting of cutter and spreader		
i	Hydraulically operated Cutter, with high pressure hoses, pulling chains	No.	1

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	, etc.		
ii	Hydraulically operated Spreader with high pressure hoses, pulling chains, etc.	No.	1
iii	Power Pack for hydraulically operated Rescue devices	No.	1
S. No.	Description of Item	Unit	Qty.
20	Airbags	Nos.	2
21	Compressor, 230 lpm at 10 bars	No.	1
22	Portable inflatable emergency light	No.	2

6.6 Standards:

Work related to the design and manufacturing of the RRV shall comply with relevant international standard or equivalent Indian standards.

7. Interface Management

7.1 Introduction

7.1.1 In conjunction with other associated Contractors the Contractor shall be responsible for all interface matters related to the design, manufacture, supply, testing & commissioning of the respective machine(s) under their scope of supply.

7.1.2 Major Interfacing Contractors for machinery and plant Contractor are (wherever applicable):

- a) Depot Civil Contractors (DC)
- b) Depot Electrical & Mechanical Contractor (E&M/MEP)
- c) Rolling Stock Contractor(s) (RS)
- d) Track Contractor (TRW)
- e) Signalling & Train control Contractor (STC)
- f) Overhead Electrical Contractor (OHE)
- g) Asset Maintenance Management System Contractor (*Refer Part 2 Section VI B Chapter 6C*)
- h) Telecom & Radio (RAD) Contractor

7.1.3 If any part of the execution of the Works for the Chennai Phase-II programme should require the Contractor to undertake coordinated interface works and/or exchange information with any other party or Contractor; then the Depot Machinery and Plant Contractor shall provide those services as part of their obligation of this Contract at no addition cost to BEML / CMRL. The appointed Interface Manager shall facilitate coordination of the same.

7.1.4 The Contractor shall apply best endeavours to resolve all interfaces applicable to the Contract and shall be proactive in seeking out interface issues and to identify their optimal solution.

7.1.5 It is foreseen that multiple rolling stock fleets (up to a maximum of three (3)) shall serve the Chennai Metro Phase-II network and shall be maintained at Madhavaram Depot. The Depot M&P Contractor is therefore required to coordinate the interface requirements of all fleets during design, manufacturing, testing & commissioning to ensure that all machines are cross-

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compatible with all fleet types (except for cases where it is explicitly stated otherwise in the machine specification).

7.1.6 Interface Responsibilities

- i. The responsibility for specification and provision of the requirements for the works that interface with Designated Contractors' equipment is tabulated in corresponding section of the document.
- ii. The requirements specified herein are by no means exhaustive and it remains the Contractors responsibilities to develop and execute jointly an Interface Plan after the commencement of the works and throughout the execution of works, to ensure that:
 - a) All interfacing issues between the two Contracts are satisfactorily resolved.
 - b) Supply, installation and testing of equipment and software are fully co-ordinated.
 - c) That all equipment supplied under the respective Contracts are fully compatible with each other, whilst meeting the requirements of the respective Specifications.
 - d) All the construction tolerances at the point of interface shall meet the requirements of the respective specifications relating to the interface points.
 - e) Interfacing Contractors shall mutually respect each other's project timelines with respect to the interface requirements.
 - f) Interfacing Contractors shall finalize their respective interface equipment only after clear agreement on interface requirements with the other designated Contractors.
 - g) Interfacing Contractors shall ensure that in any case, no equipment of their system shall be put into production or installation without meeting the interface requirements spelt out in this Chapter and/or in the Technical Specification.
 - h) Test procedures, troubleshooting manuals and any other documentation shall be updated with technical details from each Contractor and shall be submitted to BEML / CMRL.

7.1.7 Interface Management

- i. All Interfacing Contractors (which are listed under clause 7.1.2) with the exception of the Rolling Stock Contractor shall assume the role of Lead Interface Contractor.
- ii. Where the DM&P Contractor is not the Lead Interface Contractor, the DM&P Contractor's role is defined as a Participating Contractor with respect to interface management.
- iii. The Lead Interface Contractor shall be responsible to initiate, plan, coordinate and produce jointly with the Participating Contractors a list of all the required interfaces, interface design documents and shall produce interface progress reports. The Lead Interface Contractor shall also prepare and issue all interface meeting of minutes within 3 days of the meeting and provide bi-weekly interface progress reports to all the participating Contractors for information.
- iv. Participating Contractors shall collaborate fully with the Lead Interface Contractor in the development and finalization of the interface design, joint production of the interface documents and interface progress reports. Participating Contractors share responsibility of ensuring that the Lead Interface Contractor is able to submit a copy of the all-interface design documents (including the Detailed Interface Design (DID) deliverable) to the Engineer/CMRL for approval.

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v. The costs for all interface design and testing works shall be deemed to be included in the Contract sum of respective contracts regardless of the actual extent of effort required or expended by the Contractor.

vi. The Contractors shall be fully responsible for the management and control of their respective Subcontractors in relation to all interfacing activities carried out under the Contract.

7.2 Interface Specification: Depot Machinery & Plant (DM&P) Contractor & Rolling Stock (RS) Contractor

Item	Responsibility DM&P Contractor	Responsibility of Each RS Contractor
1. Diesel Operated Relief and Rescue vehicle (RRV) with Rerailing and Rescue devices	a. Shall collect all relevant details regarding RS characteristics including weight, dimensions for the effective design of RRV.	a. Shall provide all relevant details regarding RS characteristics including weight, dimensions etc.
	b. Shall collect all relevant information and details of type of coupler of RS and provide the RRV coupler with compatibility accordingly.	b. Shall provide all relevant information and details of type of coupler of RS.
	c. Shall demonstrate the testing and commissioning of RRV coupling and uncoupling test with RS, shunting upto 3 coupled car with RRV (pulling and pushing), braking etc.	c. Shall attend and provide necessary support to DM&P Contractor during testing and commissioning as necessary.
	d. Shall demonstrate the testing and commissioning of all Re-railing and Rescue devices with and without RS as decided by Engineer/Employer at agreed site/location.	d. Shall attend and provide necessary support to DM&P Contractor during testing and commissioning as necessary.
2. General	a. DM&P Contractor shall ensure all the interface requirements pertaining to RS Contractor are shared and agreed mutually.	a. RS Contractor shall ensure all the interface requirements pertaining to DM&P Contractor are shared and agreed mutually.
	b. DM&P Contractor shall prepare Detailed Interface document (DID) and shall ensure that it covers Design, Interface Hazard log, Construction, Testing & Commissioning, Test report formats, Maintenance as applicable.	b. RS Contractor shall provide the necessary information and support as requested by DM&P Contractor.

7.3 Interface Specification: Depot Machinery & Plant (DM&P) Contractor and Track Works (Tw) Contractor

Item	DM&P Contractor Responsibility	TW Contractor Responsibility
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Diesel Operated Relief and Rescue vehicle (RRV) with Rerailing and Rescue devices	a. DM&P Contractor shall provide drawings of equipment to TW Contractor to ensure SOD requirement.	a. TW Contractor shall provide Track geometry (type, profile, track gradient, curve etc.) for Mainline & depot yard to DM&P Contractor to ensure SOD requirement.
General	Shall provide the necessary information and support as requested by Track Contractor.	Shall prepare Detailed Interface document (DID) and shall ensure that it covers Design, Interface Hazard log, Construction, Testing & Commissioning, Test report formats, Maintenance as applicable.

7.4 Interface Specification: Depot Machinery & Plant (DM&P) Contractor and Depot Electrical & Mechanical Contractor (E&M / MEP) Contractor

Item	DM&P Contractor Responsibility	MEP/E&M Contractor Responsibility
General	a. Shall ensure all the interface requirements pertaining to MEP/E&M Contractor are shared and agreed mutually.	a. Shall ensure all the interface requirements pertaining to DM&P Contractor are shared and agreed mutually.
	b. Shall provide the necessary information and support as requested by MEP/E&M Contractor	b. Shall prepare Detailed Interface document (DID) and shall ensure that it covers Design, Interface Hazard log, Construction, Testing & Commissioning, Test report formats, Maintenance as applicable.

Note : It shall be noted that the scope of E&M/MEP is included with Depot civil contract. DM&P Contractor shall coordinate and Interface for all the required aspects as stated above (but not limited to) and other as necessary for the effective execution of project.

7.5 Interface Specification: Depot Machinery & Plant (DM&P) Contractor And Signalling Train Control (STC) Contractor

Item	DM&P Contractor Responsibility	STC Contractor Responsibility
General	Shall provide the necessary information and support as requested by STC Contractor.	Shall prepare Detailed Interface document (DID) and shall ensure that it covers Design, Interface Hazard log, Construction, Testing & Commissioning, Test report

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		formats, Maintenance as applicable.
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7.6 Interface specification: depot machinery & plant (DM&P) contractor and overhead equipment (OHE) contractor

Item	DM&P Contractor Responsibility	OHE Contractor Responsibility
General	Shall provide the necessary information and support as requested by OHE Contractor.	Shall prepare Detailed Interface document (DID) and shall ensure that it covers Design, Interface Hazard log, Construction, Testing & Commissioning, Test report formats, Maintenance as applicable.

7.7 Interface Specification: Depot Machinery & Plant (DM&P) Contractor and Telecom & Radio (Rad) Contractor

Item	DM&P (RRV&CMV) Contractor Responsibility	Telecom & Radio (RAD) Contractor Responsibility
Diesel operated Relief and Rescue (RRV) with rerailling, rescue device.	a. Shall interface with RAD Contractor for the Radio device requirements (space proofing, power supply, installation etc) in the driver's cab and incorporate the same into design of Vehicle (s).	a. Shall share the details of onboard radio device, power input, location etc to DM&P Contractor.
	c. Shall install the Radio device in the driver's cab.	c. Shall supply the Radio device with all accessories and interconnecting /interface cables to DM&P Contractor. Also shall guide and support DM&P contractor to install Radio device successfully.
	d. Shall conduct testing jointly with RAD Contractor for the onboard Radio device.	d. Shall attend and provide necessary support to DM&P Contractor during testing and commissioning as necessary to ensure Interface fulfilled and radio device working accurately.
	e. Shall validate the joint maintenance procedures prepared by RAD Contractor.	e. Shall prepare and finalise the joint maintenance procedure involving Radio device.

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	f. Shall provide the necessary information and support as requested by RAD Contractor.	f. Shall prepare Detailed Interface document (DID) and shall ensure that it covers Design, Interface Hazard log, Construction, Testing & Commissioning, Test report formats, Maintenance as applicable
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7.8 List of Employer's drawing:

SI No	Drawing No	Drawing Title
1	GFC503-DD-MMC-AR-DW-28001	Madhavaram Depot Site Plan
2	GFC503-DD-MMC-AR-DW-28010	Workshop and Deep cleaning Bay
3	GFC503-DD-MMC-AR-DW-28017	Workshop Bay Ground Floor plan
4	GFC503-DD-MMC-AR-DW-28273	Auto Coach Wash Plant
5	GFC503-DD-MMC-AR-DW-28192	Auto Coach Washing Plant -Control Room Plan
6	GFC503-DD-MMC-AR-DW-28193	Auto Coach Washing Plant- Sections & Elevations
7	GFC503-DD-MMC-AR-DW-28019	Workshop Bay- Sections
8	GFC503-DD-MMC-AR-DW-28021	Depot Store -Ground Floor Plan
9	GFC503-DD-MMC-AR-DW-28031	ETU and PWL Block- Ground Floor Plan
10	GFC503-DD-MMC-AR-DW-28036	ETU and PWL Block- Sections
11	GFC503-DD-MMC-AR-DW-28113	Depot Store -Enlarged Section 1-1

The applicable drawings will be shared to the bidder.

Note : The reference documents / drawings included under this section are for general information only and any interpretation of the results shall be construed as opinions only and not as representations as to the actual site conditions. The accuracy or reliability of the documents / drawings included under this section and of any other information supplied, prepared at any time by the Employer or others in connection with the Contract is not warranted.

8. Training

- The Sub-Contractor has to prepare a comprehensive training plan for the DM&P equipment / machine and submit to BEML / CMRL for notice of no objection.
- The Sub-Contractor shall provide training that enables operators and maintainers to work with the machine in the most efficient and safe manner.
- The Sub-Contractor shall provide comprehensive training and documentation to the BEML / CMRL's staff including Machine Operators & Machine Maintainers.
- The Sub-Contractor shall adapt the content of its standard training courses to the CMRL' infrastructure and also to the trainees' skills background.
- The Sub-Contractor shall:
 - provide classroom training to trainees at the CMRL's depot premises.
 - provide competent training instructors, training manuals, all necessary aids and materials as required for training.
 - provide handouts for each trainee during the training.

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- vi. The Sub-Contractor shall provide training for at least 6 BEML / CMRL nominated staff for the machine at Madhavaram depot. Period of training should be adequate (but not less than **7 working days** and shall cover all aspects to make nominated staff of BEML / CMRL to carry out operation, schedule attention, troubleshooting and repairs to this DM&P equipment / machine as and when required. A competency certificate shall be issued to each trainee after completion of training on the DM&P equipment / machine. Training should be imparted in English. Cost of training should be included in the cost of equipment.

9. Maintenance, Spares and Consumables during DLP

Throughout the DLP / DNP period, the Sub-Contractor shall be responsible for all the maintenance activities & always maintain sufficient stock of all Spares and Consumables at Madhavaram depot to the full extent necessary to carry out all scope of activities but not limited to the following:

- Corrective Maintenance
- Preventive Maintenance
- Asset and Maintenance Management System (AMMS)
- Spares management
- Operation of Depot Machinery & Plant Equipment.
- Coordination with OCC/ BCC/ DCC/ PPIO

Recommended spares:

Tenderer shall quote separately for list of recommended spares with price for equipment supplied after completion of 3 years DLP. The price offered shall remain valid for a period of 2 years beyond DLP. BEML at its sole discretion reserve the right to purchase recommended spares or not. (This shall not be included in the financial offer).

TOOLS:

The Special Tools & Jigs, Software (if applicable) required and as recommended by the OEM shall be provided by Supplier.

- Deleted.
- 3 sets of keys for each applicable machine.
- Any other tools such as special keys, measuring and monitoring tools etc which are required for rectifying the machine failures, shall be supplied for each machine. Contractor shall furnish details of such above special tools.

10. Commitment beyond DLP Period:

The Sub-contractor shall commit to support BEML / end customer CMRL for requirement of any additional Equipment, Spares, Service required for 15 years beyond DLP period of 3 years.

Spares support and Technical Guidance should be provided to carry out the below mentioned activity (but shall not limited) beyond DLP for 15 years,

- ☐ Preventive / periodic / Schedule Maintenance,

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- ☐ Unscheduled Maintenance, Corrective Maintenance
- ☐ Providing Emergency support during Operational failures.
- ☐ Software upgradation
- ☐ Documentation upgradation
- ☐ Remote diagnosis (where applicable)
- ☐ And other as applicable

11. Availability During DLP Period

11.1 DM&P Availability Target

Penalties for not achieving availability target will be as per ERTS **PART- 2: Section VI C** of the respective equipment.

11.2 Penalty Clause:

If the Works or sections are not available for usage by the Employer for more than 48 hrs, then a penalty shall be paid by the Contractor as set out below. The cumulative amount shall be deducted by the Employer from the subsequent bills submitted by Contractor.

Depot Machinery & Plant: Rs. 5,000 per day/ equipment.

A penalty of Rs. 2 lakhs for each case shall be levied for the failure or malfunction in the Works or sections during passenger operation which interrupt metro operations in the specific corridor for more than 10 mins.

12. DNP / DLP / Warranty

12.1. The Contractor shall warrant that all equipment and spares etc. supplied against the contract shall be free from defects and faults in design, materials, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for goods of the type ordered and in full conformity with the contract specifications.

12.2. The warranty period shall be 36 months after the date of issue of successful commissioning and proving test certificate of the machine at site. Any approval of acceptance issued by BEML during the course of installation, commissioning & proving out test shall not in any way limit the Contractor's liability.

12.3. In case where replacement of parts takes place during the warranty period, for replaced item and concerned sub-assembly shall extend further 36 months from the date of replacement of the defective parts. This extended period shall be known as extended warranty period.

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12.4. The Contractor's liability in respect of any defects shall be to supply, install & commission any defective part free of any charge or the repair the defective parts, so as to ensure minimum down time of the machine

12.5. In case of delay in replacement/repair of defective parts, BEML may get the replacement carried out through any other outside agency. In such a case the cost of repair, replacement shall be borne by the Contractor.

12.6. Failure of the Contractor to meet with the warrantee obligations shall result in unsatisfactory performance of the contractor and the consequence of the same shall be applicable at the risk and cost of the contractor.

12.7. The decision of BEML in regard to Contractor's liability and amount if any payable under this warranty shall be final and conclusive.

13. List of Enclosures

Enclosure No.	Document Description	No of Pages
1.	PART- 2: Section VI B Chapter-1 – GS & Scope_ERTS DM&P	12
2.	PART- 2: Section VI B Chapter-2, Clause 2.8– TS_ERTS DM&P	11
3.	PART- 2: Section VI B Chapter-4 –Interface Management_ERTS DM&P	11
4.	PART- 2: Section VI C: Comprehensive Maintenance Contract (CMC)_ERTS DM&P	68
5.	SYS Form - 17	1
6.	BIM Guidelines for Asset Information Model	55
7.	Applicable Depot Layout drawings (SI no 9,10 of CI 7.8)	2
8.	Vendor approval / Manufacturer Credentials form	1

14. Submittals with Technical Offer

The sub-contractor shall submit all the document as per Annexure 1

	TECHNICAL OFFER SUBMITTALS CHECK SHEET	Project CMRL ARE02A
		ANNEXURE-1
		Page 1 of 1
M&P Equipment	DIESEL OPERATED RELIEF & RESCUE VEHICLE (RRV) WITH RERAILING RESCUE EQUIPMENT & AUXILIARY TRUCK	PTS Doc No: GR/TD/7728

Annexure-1

SL. No.	Details	Submitted	Not Submitted	Ref Doc.
1.	Duly filled Vendor approval / Manufacturer Credentials form meeting the EQC along with SYS Form & Performance Certificates.	☐	☐	
2.	Complete Technical offer for Procurement Technical Specification for Diesel Operated Relief & Rescue Vehicle (RRV) With Rerailing Rescue Equipment & Auxiliary Truck	☐	☐	
3.	Clause-wise Compliance / comments against the PTS .	☐	☐	
4.	Clause-wise Compliance / comments to Section VI B (Chapter 1, 2 & 4) Technical Specifications (ERTS) – Depot Machinery & Plant (DM&P)	☐	☐	
5.	Clause-wise Compliance / comments to Section VI C Technical Specification (ERTS) – Comprehensive Maintenance Contract (CMC) of Depot Machinery & Plant. (Applicable for DLP Period)	☐	☐	
6.	Clause-wise Compliance / comments to BIM Guidelines for Asset Information Model	☐	☐	
7.	Company profile, ISO certificates, Organization chart, Quality Control Process.	☐	☐	

It is to be noted that incomplete submission is liable for rejection.

Signature of the Bidder with seal

Bid invitation

Information

Description: Supply of RRV- CMRL project

Bid invitation number: 6300040098

Version: 2

Bid invitation rules

Bid invitation currency: INR

Other permitted currencies: JPY, EUR

Timezone: UTC+53

Submission period: 10.11.2025 14:00:00

Tech Opening date: 10.11.2025 14:30:00

Created On: 30.10.2025 10:44:58

Bid invitation text:

This is to invite for tender enquiry for supply of RRV for CMRL project.

Bidders to download the following tender documents from C folder:

- 1) PTS
- 2) NIT

Please refer NIT for other tender terms & conditions

Attachments:

NIT-TENDER

PTS

Digital Signature

Bid invitation details

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
1	52475008	DIESEL OPER. RRV WITH RERAILING & RESCUE		30.03.2026 00:00:00	1 NO
	IGST -Integrated GST		%		

Bid invitation

Information

Description:Supply of RRV- CMRL project
Bid invitation number:6300040098
Version:2

Item	Product	Description	Vendor product	Delivery date/	Quantity
	Price Condition		number	<u>performance</u> period	
	Basic Price		INR		
	CGST - Central GST		%		
	SGST - State GST		%		