



An ISO 9001
Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirapalli – 620014, TAMIL NADU, INDIA
CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

ENQUIRY	Phone: +91 431 257 7421/7297 Email : vkaruna@bhel.in : hari.r@bhel.in Web : www.bhel.com
NOTICE INVITING TENDER	

TWO PART BID Tender to be submitted in two Parts	Enquiry Number: 2631900048	Enquiry Date: 21.10.2019	Due date for submission of quotation: 15.11.2019
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You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

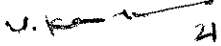
Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer should reach physically on or before 14.00 Hrs(IST) on the Date of tender opening. Tenders received after 14.00Hrs (IST) will not be considered for evaluation.

Item	Description	Quantity	(Indigenous Vendors) Matl. Will be Delivered to
10	2 Ton Battery Operated Platform Truck as per the technical specification & commercial conditions applicable(To be downloaded from web site www.bhel.com/tender/tender_home.php or https://eprocure.gov.in/epublish/app)	5.00 Nos.	FOR, BHEL,Stores, High Pressure Boiler Plant, Tiruchirappalli - 620014

Important points to be taken care during submission of offer

- 1) Material shall be delivered to (By Indigenous vendors): As stated above.
- 2) Delivery required 4 Months from the date of purchase order.
- 3) Erection & Commissioning period required 1 Week from the date of intimation by BHEL to vendor for deputation of their Engineers for E&C.
- 4) EMD for this Tender will be ₹ 40,000.00
- 5) Compliance Forms. TRY/IND/07 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
- 6) All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.

BHEL's General guidelines / instructions (refer MM / CE / GENL / GENL / 001-EMD) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site www.bhel.com/tender/tender_home.php or from the Government tender website <https://eprocure.gov.in/epublish/app> under Enquiry reference 2631900048 .

Tenders should be submitted before 14.00Hrs (IST) on the due date Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.	Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED  DGM / Capital Equipment / MM
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V. KARUNAKARAN
Dy. General Manager
Capital Equipment / MM
BHEL / Tiruchirappalli - 620 014

BATTERY OPERATED PLATFORM TRUCK – 2 TON, Qty. – 5 Nos.

PART A

SECTION – 1: Qualifying Criteria

The Bidder has to compulsorily meet the following requirements to get qualified, for evaluation of the technical offer.

S. NO.	PARTICULARS	BIDDER's RESPONSE
1.1	Only those Bidders / OEMs, who have supplied and commissioned at least 1 number of Battery operated platform truck of capacity 2 Tons or higher are eligible to quote	
1.2	Bidder has to submit at least ONE Performance Certificate from their customer, for satisfactory performance of the equipment specified in 1.1 and meeting the following conditions: a) The Equipment must have been supplied within the last five years as on the first date of tender opening. b) The Equipment must have performed satisfactorily for at least one year during this period. For obtaining the Performance certificate, a suggestive format is provided in Annexure.	
1.3	BHEL reserves the right to verify the information provided by the Bidder. In case the information provided is found to be false/ incorrect, the offer is liable for rejection.	

Section 2: Information to be provided by the bidder:-

S. NO.	PARTICULARS	BIDDER's RESPONSE
2.1	The BIDDER to furnish Reference List of Customers with Complete contact details where similar machine is supplied.	
2.2	Details of similar Equipment supplied to BHEL units, if any. (Year of commissioning, Application, Type)	
2.3	Details on SERVICE-AFTER-SALES Set-Up in India including the Address of Agents / Service Centers in India.	
2.4	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

Section 3: The BIDDER to note:

S. NO.	PARTICULARS	BIDDER's RESPONSE
3.1	The BIDDER / VENDOR shall submit the offer in TWO PARTS. 1. Technical Offer [with PART A & PART B] & commercial offer 2. Price Bid.	
3.2	The Bidder's offer against each clause in PART A & B of the offer should be filled by the BIDDER compulsorily with complete details.	
3.3	The BIDDER shall assure a continuous support for Spares and Service for Ten Years, from the date of commissioning of the equipment at BHEL Works.	
3.4	The Technical Offer shall be supported by Product Catalogue and Data Sheets in original and complete technical details / literature on the quoted model of equipment.	
3.5	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation.	

Suggestive Format of Performance Certificate:

The performance certificate to be produced on Customer's Letter Head.

PERFORMANCE CERTIFICATE

1. Supplier of the Equipment/Machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Weight Carrying capacity :
5. Performance of the Machine : Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
6. Any other Remarks :

Date :

Signature & Seal of the Authority
Issuing the Performance Certificate

BATTERY OPERATED PLATFORM TRUCK – 2 TON, Qty. – 5 Nos.**PART B - Technical Specification**

Sl. No.	Particulars & BHEL specification	Bidder's technical offer (with complete details)
1.0	PURPOSE: For handling and movement of material of general nature within Factory campus	Bidder to note
2.0	SCOPE: 4 Wheeled Battery powered platform truck 2000 kg capacity with electronic chopper controller and low voltage cut-off system, head lights, horns and reverse horns with necessary safety accessories.	Bidder to confirm
3.0	PLATFORM TRUCK CONFIGURATION AND PARAMETERS:	
3.1	CHASIS: Fabricated from rolled Channels and Plates of suitable thickness	Bidder to confirm
3.2	PLATFORM TYPE: Chequered	Bidder to confirm
3.3	PLATFORM SIZE: Length: 1850 - 2000 mm, Width: 1200 - 1250 mm	Bidder to specify
3.4	OVERALL LENGTH: 3000 - 3200 mm	Bidder to specify
3.5	WEIGHT CARRYING CAPACITY: 2 Tons or above	Bidder to confirm
3.6	WHEEL BASE: 1750 - 1850 mm	Bidder to specify
3.7	REAR OVERHANG: 580 - 800 mm	Bidder to specify
3.8	FRONT OVERHANG: 420 - 800 mm	Bidder to specify
3.9	TURNING RADIUS	Bidder to specify
3.10	GROUND CLEARANCE: min 125 mm	Bidder to confirm
3.11	OVERALL HEIGHT: 1450 - 1550 mm	Bidder to specify
3.12	PLATFORM HEIGHT FROM GROUND (UNLADEN): 650 - 700 mm	Bidder to specify
3.13	TRAVEL SPEED – UNLADEN : 09 - 13 Kph	Bidder to confirm
3.14	TRAVEL SPEED – LADEN : 06 - 10 Kph	Bidder to confirm
3.15	WHEEL TRACK: 900 - 1150 mm	Bidder to specify
3.16	GRADEABILITY – UNLADEN : 10 – 20%	Bidder to confirm
3.17	GRADEABILITY – LADEN : 6 – 10%	Bidder to confirm
3.18	OPERATOR AREA: Comfortable seat with back rest ergonomically positioned with easy reach to steering wheel with optimum leg space for operating the accelerator and brake pedals. The control panel shall be visible and easily accessible.	Bidder to confirm

Battery Operated Platform Truck – 2 Ton

Sl. No.	Particulars & BHEL specification		Bidder's technical offer (with complete details)
3.19	TYRES: Solid Rubber (Cushion) non-skid bonded type Tyres to be provided. The tyre should be used for superior ride comfort, heavy duty, long operating life, low rolling resistance and wide foot print.	Bidder to confirm & specify size	
3.20	BRAKE: Internally expanding foot operated hydraulic brakes on rear wheels for smooth braking action. Parking Brake shall be actuated by hand operated lever on the left hand side of the operator's seat.	Bidder to confirm	
3.21	SUSPENSIONS: The suspension shall be through leaf springs on both axles and shock absorbers on the rear axles.	Bidder to confirm	
3.22	STEERING: The steering mechanism shall consist of automotive steering gear unit. The entire unit shall be suitably inclined towards operator's seat for drive comfort.	Bidder to confirm	
3.23	Front Head lights and Red reflector at the rear	Bidder to confirm	
3.24	Hook to be provided for towing purpose	Bidder to confirm	
3.25	Horns and reverse horns to be provided	Bidder to confirm	
4.0	ELECTRICALS :		
4.1	DRIVE AND TRANSMISSION: The vehicle shall be driven by DC motor of suitable rating and insulation meant for traction motors. The silent and efficient power shall be ensured through fully enclosed oil bathed gear box mounted directly on motor and output shaft of gear box connected to rear axle suitably.	Bidder to confirm	
4.2	DC-Motor: Totally enclosed series wound traction motor of suitable capacity of make acceptable to BHEL (Preferable Makes: ROTOTECH/PRIME MOVER/KIRLOSKAR)	Bidder to confirm	
4.3	MOTOR RATING: 36V and not less than 3.5 H.P (2.6 kW)	Bidder to confirm	
4.4	BATTERY: Preferably of EXIDE make Lead acid traction batteries of suitable capacity of 36V and minimum 290 Ah shall be supplied.	Bidder to confirm	
4.5	BATTERY CHARGER: Battery charger of suitable capacity and make acceptable to BHEL-for input power supply of single phase 230V. (Preferably SIRIUS make)	Bidder to confirm	
5.0	CONTROLS:		
5.1	CONTROL PANEL: The control panel shall have conveniently located simple controls such as ON-OFF key switch, forward and reverse selection switch, emergency power cut off switch, Horn push button, Head light switch, etc.		

Sl. No.	Particulars & BHEL specification	Bidder's technical offer (with complete details)
5.2	SPEED CONTROL: Microprocessor based “MOSFET ELECTRONIC CHOPPER CONTROLLER” shall be provided for smooth and step less control of speed and acceleration. The system shall have the following features. 1. Indicator to display the charge level of the battery 2. Various safety measures like a) Thermal protection or Potentiometer fault protection. b) Low voltage relay for battery protection with alarm indication.	Bidder to confirm
6.0	SPARES: Critical spares shall be quoted for two years trouble free operation. A sample list of spares is given below. However, the bidder has to submit a list of spares in the technical offer with description, part number, quantity etc. without price details. a) Oil seals b) Brake shoe lining with Rivet c) Master cylinder kit d) Wheel cylinder kit e) Carbon brush f) Fuses (suitable) g) Micro switch h) Moving contact i) Fixed contact	Bidder to specify
7.0	TOOLS FOR O&M: Complete set of Tools required for Maintenance. Bidder has to list down in the offer.	1 Set

Sl. No.	Particulars & BHEL specification	Bidder's technical offer (with complete details)
8.0	DOCUMENTATION (O & M MANUALS): One hard Copy of Operation & Maintenance Manual and one soft copy of all documentation in CD containing the following technical details. The O&M Manual should contain the following: - Complete set of parts available in the vehicle with part Nos. - Complete operating instructions. - Complete maintenance instructions. - Entire Circuit diagram with Chopper Controller Connections. - Detailed technical specification for all components, including bought out items (Electricals, Mechanicals, and Electronics items).	Bidder to confirm & specify
9.0	PRE DESPATCH INSPECTION: Platform Truck shall be tested for its performance at bidder's works in presence of BHEL engineer prior to despatch.	Bidder to confirm
10.0	COMMISSIONING: Commissioning of the Platform Truck and Performance Prove – Out for its Capacity and Smooth Running (at BHEL Works) shall be the responsibility of the supplier.	Bidder to confirm
11.0	PERFORMANCE GUARANTEE: The Performance of the Platform Truck and/or the Components / Sub-Assemblies / Bought-Out-Items shall be guaranteed for a minimum period of 12 months from the date of commissioning at BHEL works or 18 months from date of despatch whichever is earlier.	Bidder to confirm