

Modern Coach Factory Raebareli

Specification No.: -MCF/Battery Operated Truck-2T/LSG/25-26

M&P Name: - Battery Operated Platform Truck (Cap:- 2 T)

User:- M&P/MCF

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SSG/TOT

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TECHNICAL SPECIFICATION

Specification No:- MCF/Battery Operated Truck-2T/LSG/25-26

M&P Name:- Battery Operated Platform Truck (Cap:- 2 T)

User:- M&P/MCF

IMPORTANT NOTICE

- (i) Bidders are required to give comments/compliance against each clause and sub clause on the following technical Specifications.
- (ii) The Bidder shall furnish the details against the attached annexure at the time of submitting the offer. In the absence of details, the offer will be treated as incomplete and liable to be rejected. Remarks like complied/ noted/ noted and complied will not be accepted and offer will be treated as incomplete.

1.0 SCOPE OF SUPPLY:-

1.1 The specification covers design, manufacture, supply and commissioning of Battery Operated Platform Truck of capacity – 2 T (Qty- 10 Nos.), as per the parameters shown in Schedule-I.

1.2 Concomitant Accessories for each Fork Lift Truck:

The scope of supply shall include the following concomitant accessories whose price shall be included in the basic price of the machines. For information of the purchaser, their prices shall also be indicated separately in the bid:

- (i) Low maintenance lead acid batteries for drive the motor.
- (ii) Automatic Battery charger.
- (iii) First fill of lubricating and hydraulic oils.

Note: - Individual rate for each concomitant accessories shall be quoted

1.3 OPTIONAL ACCESSORIES (Not Ordered)

- (i) Consumable spares like filter, fuses, indicator lamps, etc. required for 24 months operation on double shift basis.
- (ii) Spares for normal maintenance required for a period of two years.
- (iii) Any other accessory which can improve the accuracy, reliability and maintainability of the trucks, bringing out its advantages and limitations.
(Spares will be quoted with details, unit rates and quantity recommended).

1.4 **LEADING PARAMETERS:** As per Schedule-I

To substantiate its claim for major parameter bidder has to attach technical brochure giving the details of major parameter of the make and model selected for this tender to prove out the capability and productivity

2.0 DESIGN

2.1 CHASSIS

The chassis should be of robust welded steel frame, fabricated from suitable rolled sections and plates. All components should be easily accessible for maintenance.

2.2 PLATFORM

The platform should be made of M.S chequered Plate.

2.3 DRIVE AND TRANSMISSION

The Truck is driven by a Series/Sepeex motor of suitable rating with class 'F' insulation and powered by suitable traction battery.

2.4 STEERING

The Platform Truck should have steering mechanism of automotive steering gear unit. The entire unit is suitably inclined towards operator seat for comfortable drive. The suspension is through leaf springs on both axle and shock absorber on the rear axle.

2.5 CONTROL PANEL

The control panel shall be provided with dash board located electronic control such as ON-OFF key switch, forward and reverse switch, emergency power cut-off switch and battery discharge indicators/alarm, head and tail lamp on-off switch and horn switch.

2.6 WHEELS

Bidders to specify the type, size and make of the Wheels/Tyres. (Wheel Base-1800 mm, Tyre---Solid Cushion - Non Skid (535mm x 1500mm)

2.7 BRAKES

Internally expanding foot brakes shall be provided on rear wheels for smooth braking. In addition, parking/emergency brakes should also be provided.

2.8 SAFETY FEATURES

The Truck shall be provided with heavy duty industrial solid cushion tyres. The Truck design shall ensure safety of the machines and operator at all times. The machines shall necessarily have, but not be limited to the following safety features:

- i) Power cut-off switch shall be provided which isolates the battery from the control panel in case of accident.
- ii) The machines should be provided with all essential safety devices in accordance with relevant safety rules and regulations applicable to factories and workshops.
- iii) Emergency stop in case of accident damage etc.
- iv) Accelerator-foot operated accelerator shall be provided.
- v) Lamps & Horns- Head and tail lamps and Horn shall also be provided.
- vi) Low voltage battery discharge indicator/ Alarm.

2.9 MAINTAINABILITY

- i) The Truck shall be designed to provide the safe and convenient access for maintenance and removal of Mechanical, Electrical and Hydraulic components. All parts requiring replacement, inspection and lubrication shall be easily accessible without the need of dismantling of other assemblies,
- ii) Material used for the truck and structural should be free from cracks, holes etc.
- iii) A tool box containing all tools required for routine maintenance shall be supplied along with the trucks.

2.10 SOUND LEVEL

Sound level shall be 75 dB(A) approx. at normal operating speed at a distance of 1 meter from the machine.

3.0 PURPOSE FOR WHICH REQUIRED

- 3.1 10 Nos. Battery Operated Platform Trucks (2 Ton capacity 4 wheels) are required for transporting of general stores materials within the workshop.
- 3.2 The machine shall be capable of working in hot humidity and industrial atmosphere at Modern Coach Factory, Rae Bareli with environmental temperature range 0°C to 50°C and humidity up to 98%.

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4.0 TECHNICAL LITERATURE

- 4.1 The Contractor will have to furnish 3 copies of operation and maintenance manual including electrical and hydraulic circuit diagram to the consignee.
- 4.2 Contractor shall also furnish 3 copies of spare parts catalogue along with sub-vendors name and model number to the consignee.

5.0 SPARES

- 5.1 The offer shall be accompanied by list of recommended non-consumable spares for 3000 hrs. of operation. The rates of these spare parts shall also be furnished with the bid.
- 5.2 The details of spares should be furnished in the following format.

Sl. No.	Part No.	Unit rate	Quantity	Cost	Shelf life	Likely sources of supply in India, complete address, phone and fax nos. etc.

6.0 INSPECTION, TESTING AND PROVING OUT OF EQUIPMENT AT MANUFACTURER'S WORKS:-

- 6.1 Manufacturer must have suitable facilities at their works for carrying out various performance tests on the machine/subsystem. The bidder should clearly confirm that all the facilities exist and shall be made available to the inspecting authority. The inspection of main machine by TPI agency to be carried out only at OEM premises as mentioned in LOA
- 6.2 The bidder shall submit Quality Assurance plan being followed at the manufacturer's works for ensuring quality of the products and offered for approval of MCF before manufacturing of the machine.
- 6.3 Inspection shall be carried out by TPI agency, and Firm shall bear the cost of inspection. A performance test must be carried out at the manufacturer's works and shall be demonstrated up to the satisfaction of appointed inspector or inspecting agency/RITES.
- 6.4 The supplier shall demonstrate the machine performance and prove out the claimed capability in the presence of inspecting authority (TPI). The Inspecting authority shall check Geometric and performance tests as per equivalent/applicable IS standards along with the capability of machine.
- 6.5 Required machine is to be supplied tooled up for components. The machine must be offered for inspection after painting.

7.0 JRI, INSTALLATION, COMMISSIONING & PROVING TESTS AT CONSIGNEE PREMISES :-

7.1 JOINT RECEIPT INSPECTION:-

The Contractor or his agent would be required to inspect the consignment at the consignee's end before unpacking done and carry out a joint check of the receipt of machine to avoid subsequent complaints regarding short shipment or transit damages with nominated supervisors of MCF (Production/user, Consignee & Plant) and this team shall prepared a joint inspection report.

7.2 INSTALLATION & COMMISSIONING

Adequate number of teams of technical experts should be made available immediately so that erection and commissioning delays are eliminated. Such personnel will be required to be present immediately as soon as the machine is received. The supplier shall demonstrate the machine performance and prove out the claimed capability during the initial commissioning in the presence of nominated supervisors of MCF (Production/user, Consignee & Plant) and this team shall prepared a joint commissioning report. After successful commissioning of machine, the user shop shall take over the machine and watch the machine performance for stipulated period, before the final proving test certificate is issued.

7.3 PROVING TEST CERTIFICATE (PTC)

After successful completion of initial commissioning, machine will be handover to user shop for further use. The Machine should give satisfactory performance for one month from the date of commissioning. This period will be taken as proving out period of machine for issuance of PTC. On successful completion of this the ultimate consignee i.e. MCF RBL will issue a commissioning cum proving test certificate to the supplier.

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8. **TRAINING:-**

During commissioning of fork Lifter, technical expert of the manufacturer will fully and adequately train operators and maintenance staff nominated by the consignee at MCF/RBL.

9. **COLOUR:-**

9.1 The machine and it's accessories shall be painted in Yellow Colour conforming to IS: 5-2007.

10.0 **WARRANTY OBLIGATION: -**

Supplier shall provide complete warranty against any manufacturing, design and such other defects for a period of 24 months from date of successful commissioning. He will also make necessary preventive maintenance (maintenance schedule should be provided). The availability of the work platform should not be less than 95% during warrantee period including preventive maintenance if done in working hour, failing which the warrantee period shall be extended suitably.

11.0 **DELIVERY SCHEDULE CHART: -**

11.1 In the event of acceptance of the offer, the machine shall be supplied as per the following schedule chart: -

SN	Activity	Activity Code	Order limit of Time Schedule expected by MCF/RBL
1.	Issue of LOA	D1	-
2.	Supply/Delivery of machine	D2	D1+90days
3.	Installation & Commissioning of the machine by supplier	D3	D2+15 days
4.	Proving out of the machine by Supplier	D4	D3+30 days
5.	Issue of PTC by consignee	D5	D4+15 days
6.	Warranty of supplier	D6	D3+2 years

11.2 Liquidated Damage shall be applicable on above mentioned delivery period.

12. **PRICES:-**

- 12.1 Prices quoted shall be including all handling, loading & unloading transit insurance, civil works like foundation, testing, commissioning etc.
- 12.2 Prices shall be inclusive of all permits, freight, insurance and all such other costs. Prices shall remain firm and no escalation shall be permissible. All statutory taxes and duties including entry tax, as applicable, shall be paid by the Supplier.

13. **EVALUATION CRITERIA:-** The commercial evaluation will take into consideration the following.

- 13.1 Cost of M&P at site.
- 13.2 Cost of concomitant accessories for the machine.
- 13.3 Cost of any other accessories which in the opinion of supplier is essentially required for making the machine fully operational.
- 13.4 Applicable taxes and duties including custom duty (if any), port charges, insurance, freight, all loading and handling charges complete.
- 13.5 Cost of turnkey charges viz. Installation & commissioning etc.
- 13.6 Training charges

Note: The above costs should be incorporated in the financial offer form of the IREPS as the system calculates the total value of the offer for inter se ranking.

14. **PAYMENT TERMS:**

- 14.1 80% of machine cost of supply portion (including taxes) on receipt of M&P in good condition and after successful completion of JRI and submission of all requisite documents including third party inspection certificate (at OEM Premise as mentioned in LOA) along with bill including ;
- 14.2 After successful and satisfactory use of machine for 01 month period (i.e. Prove out period) since commissioning of machine, PTC will be issued. After issuance of PTC and submission of Bank Guarantee for an amount equal to 5 % of the contract value (for warranty obligation), balance 20% payment shall be paid.

15. PERFORMANCE SECURITY BANK GUARANTEE:-

- 15.1 The successful bidder is expected to submit within 15 days of signing of letter of acceptance (award letter), an unconditional, irrevocable, Performance Bank Guarantee from a schedule bank in India and acceptable to MCF/RBL as per Performa for an amount equivalent 5% of the contract value for a period of 27 month from the LOA or 24 months from the date of commissioning, which is later.
- 15.2 Non submission of above performance security within the stipulated time would lead to forfeiture of bid security/EMD and withholding of all due payments.
- 15.3 Performance Guarantee shall be released on the completion of above period and certification of satisfactory performance of the contract from MCF/RBL.

16. LIQUIDATED DAMAGES:

The Contractor or his agents shall commission the machine within the stipulated time as shown in the contract. The time schedule includes the time for installation which is also to be undertaken by the supplier. In case of delay in commissioning of the machine on the part of contractor, the Purchaser shall be entitled to recover the pre estimated liquidated damage at the rate of 0.5% per week of the total contract value of machine. Provided always that the entire amount of liquidated damages to be recovered by contract or under the provision of this clause shall not exceed 10% of the total contract value. After expiry of period date of default i.e. from the date of commissioning provided in the contract, purchaser will be at liberty to invoke the PG Bond submitted by the supplier. Continuance of commissioning work after expiry of stipulated time will also not absolve the contractor from the liquidated damages as stated above. The decision of the Purchaser, whether the delay in commissioning has taken place on account of reasons attributed to the contractor shall be final.

16.1 For delay in supplies –

If the Bidder fails to supply the M&P or complete the work given under this tender/ order within the agreed delivery schedules mentioned herein or any extension thereof authorized by the Purchaser and/or fails to fulfill their obligations under this order, the Bidder shall be liable to pay liquidated damages and not by way of penalty, a sum equal to 1/2 (half) percent per week of delay in supply of complete Material/Subject to maximum of 10 (ten) percent of the order value. The compensation shall be payable by the Bidder without prejudice to other rights and remedies available to the Purchaser in respect of any failure/default committed by the Bidder.

16.2 For delay in Installation and commissioning -

The Successful Bidder or his agents shall install and commission the machine within the time period as stipulated in Delivery schedule chart. The time allowed for installation and commissioning of M&P by the Successful Bidder or his agent shall be deemed to be the essence of the contract. In case of delay in commissioning of the M&P on the part of Successful Bidder, the Purchaser shall be entitled to recover and the Successful Bidder shall be liable to pay liquidated damage at the rate of ½ % per week of the total contract value, subject to maximum of 10 (ten) percent of the order value.

- 16.3 Provided always that the entire amount of liquidated damages to be paid under the provision of this clause shall not exceed 10% (ten) of the total contract value. Purchaser will be at liberty to invoke the Performance Security / Performance Bank Guarantee submitted by the supplier & with-hold all balance payments against this contract or any other contract of MCF. MCF will be at liberty to request Indian Railways to with-hold all payments of Indian Railways due to the supplier & may also process blacklisting of the firm for all the future supplies to Indian Railways.
- 16.4 Continuance of commissioning work after expiry of stipulated time will also not absolve the penalty as stated above.
- 16.5 The decision of the Purchaser, whether the delay in commissioning has taken place on account of reasons attributed to the successful Bidder shall be final.

17. FORCE MAJEURE:

Force majeure shall mean unforeseeable cause beyond the control and without the fault or negligence, including but not restricted to acts of God or caused by war, civil commotion, riots, mobilization, flood, epidemics, quarantine restrictions, freight embargoes and obstructions of navigation at port of exit or entry or acts of Governments.

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18. COMPLIANCE TO TENDER TERMS & CONDITIONS AND TECHNICAL SPECIFICATIONS:

The offer submitted must be fully complying with the technical and commercial conditions of the contract. The bidder must give confirmation for compliance to conditions of contract as per the 'Declaration by the bidder' enclosed as Annexure-III.

Deviations, if any, quoted by bidder must be accompanied with the cost for removing such deviations in the enclosed Annexure - III.

Purchaser reserves the right to issue, accept, negotiate, cancel or reject any tender or to annul and 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.

19. CERTIFICATE BY SUPPLIER BEFORE COMMENCEMENT OF WORK:-

The supplier is required to submit a certificate in the required format (Annexure-I of Schedule-I) stating that there is no assistance/facility etc. is pending with MCF to the supplier for supply, installation, commissioning and proving out of M&P. This certificate is required to be submitted before starting of work at site and also dispatch of M&P to MCF/RBL.

20. PRICE SCHEDULE

S.N.	Description	Amount
Schedule (A)		
1.	Ex works Cost of machine (as per technical specification)	
2.	Ex works cost of necessary Concomitant accessories	
3.	Cost for providing other material as per technical specification	
4.	Cost for loading/unloading handling charges, inland transportation, transit insurance up to project site at MCF/RBL, Uttar Pradesh.	
	Sub Total	
5.	GST	
	Total Schedule A (including Taxes)	
Schedule (B)		
7.	Erection, installation and commissioning charges of-	
8.	Cost of carrying out civil works (as required)	
	Sub Total	
9.	GST	
	Total Schedule B (including Taxes)	
Schedule (C)		
1.	Training Charges at manufacturing premises	
2.	Training Charges at MCF/RBL site	
3.	Any other Charges	
4.	GST	
	Total Schedule C (including Taxes)	
	Total (A+B+C)	

1 SUMMARY OF COST OF M&P (including Taxes) :

S No	Description	Amount in Rs
1	Schedules	
2	Total Schedule A	
3	Total Schedule B	
4	Total Schedule C	
	Total (A+B+C)	

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SCHEDULE-I**MAJOR PARAMETER FOR PLATFORM TRUCK (CAP:- 2 T).**

Specification No.- MCF/Battery Operated Truck-2T/LSG/25-26

SN	Description	Required Specification
1.	Type	Fixed
2.	Capacity	2000 Kg
3.	Platform Size	1850 mm x 1400 mm
4.	Overall height	1500 mm
5.	Overall length	3200 mm
6.	Overall width	1400 mm
7.	Platform height	650 mm – 700 mm
8.	Towing height	610 mm
9.	Wheel Base	1800 mm
10.	Track width	1100 mm
11.	Tyre Size	535 mm x 150 mm
12.	Travel speed	2
12.	No of speed reverse	2
13.	Minimum ground clearance (mm)	Min 200
14.	Standard tool kit	Yes
15.	Light Reflector	Yes
16.	Rear View Mirror	Yes
17.	Low Back Rest	Yes
18.	Head Light two numbers, Rear light one light and signal light	Yes
19.	Stability testing	As per IS 4357 latest
20.	Acceptance criteria	As per IS 10517 latest
21.	Type Approval certificate and conformity of production certificate from ARAI or other agency as approved by Government of India for latest smoke emission norms	Yes
22.	Fork spread (mm)	Adjustable up to 2150 mm approx.
23.	Length of forks (mm)	Min 1600
24.	Wheel Base (mm)	2700-3200 approx.
25.	Conformity of Indian standard	IS: 6765-2003 latest
26.	Mast Tilt (F/B) in degree	6/12
27.	Availability of complete & satisfactory test report from Central govt./ NABL/ILAC accredited laboratory to IS10517 latest (Appendix 'A') for Motor, to IS 5154 latest for Traction Battery, to IS 10000 (1 to 12) latest and IS 10002 latest for Diesel Engines whichever applicable.	Yes
28.	Diesel Engine shall be conforming to IS 10000(1 to 12) latest and IS 10002 latest. Yes	Yes
29.	Name & address of lab where test conducted ARAI Pune	Yes

Note: -

- (i) Deviation on better side may be permitted in major parameters.
- (ii) The Bidder shall furnish the details against the following at the time of submitting the offer. In the absence of these details, the offer will be treated as incomplete and liable to be rejected. Remarks like complied/ noted/ noted and complied will not be accepted and offer will be treated as incomplete.
- (iii) In case of deviations, the bidder should indicate the actual parameters offered with their features and superiority.

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ANNEXURE-I TO SCHEDULE-I

Concomitant Accessories and Spares Details

S.N.	Items/Assembly/Sub Assembly	
1.	Brief Description	
2.	Model No.	
3.	Make	
4.	Quantity per machine	
5.	Manufacturer's Name and Complete Address	
6.	Whether Imported or indigenous	
7.	Country of origin	
8.	Whether warranty included with machine	
	Concomitant Spares	
1.	Brief Description	
2.	Model No.	
3.	Make	
4.	Quantity per machine	
5.	Manufacturer's Name and Complete Address	
6.	Whether Imported or indigenous	
7.	Country of origin	
8.	Whether warranty included with machine	
	Maintenance Spares	
1.	Brief Description	
2.	Model No.	
3.	Make	
4.	Quantity per machine	
5.	Manufacturer's Name and Complete Address	

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**PERFORMA FOR CERTIFICATE BY SUPPLIER REGARDING NO ASSISTANCE/ FACILITY IS
PENDING WITH MCF TO THE SUPPLIER.**

It is hereby certified that, there is no assistance/facility etc. is pending with MCF to the supplier for supply, installation, commissioning and proving out of M&P.
No claim will be submitted by firm in this regard.

.....
Signature by Authorized Authority
and seal of the Supplier.

ANNEXURE - III

PROFORMA FOR STATEMENT OF DEVIATIONS FROM TENDER CONDITIONS

The following are the particulars of deviations from the requirements of the tender conditions :-

CLAUSE	DEVIATION	REMARKS (Including Justification)

.....
Signature and seal of
the Tenderer.

NOTE:- Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

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