

Traction Motor Manufacturing Division

SPECIFICATION FOR WEIGHING MACHINE (5000 KG MAX.)

1. REQUIREMENT: Weighing machine is required for weight of a Magnet frame TM5002 and TM4907 Motors etc.
2. SPECIFICATION: Weighing machine is required for weight of M/frame max. 5000 Kg.
3. Features:
4. Weighing machine is required for weight of a Magnet frame TM5002 and TM4907 Motors etc.

Display	30 mm 5 digits LCD
Stable Time	<10 seconds
Tare Range	Full capacity
Weight	5000 Kgs max
Overload indication	100% Max. capacity
Max. safety Load	125% Max. capacity
Ultimate Load	400% Max. capacity
Battery Type	Full sealed lead – acid battery, 6V/10 Ah
Charger	DC9V/1500 mA
Operating Temp.	-10~+50 degree C
Battery of remote controller	5# battery, 1.5Vx2

Operation and maintenance manual should cover the specification of various components used for purpose of procuring future spares.

PERFORMANCE

The equipment should be capable of operating at accuracy and performance with minimum maintenance.

APPEARANCE

It should have nice appealing appearance with rust proof and attractive color finish.

SAFETY

Suitable mechanical interlocks should be provided to prevent the equipment from damage and for safety of the operators. Any other protection as recommended by the manufacturer.

ENVIRONMENTAL CONDITION

All electrics are to be suitably tropicalised to IS or BS standards for operations under environmental conditions as specified below:

Ambiant température	5 deg C min, 50 deg C max
Relative humidity	20% min, 95% max

MAINTENANCE

- 3.15.1 All the parts of the equipment should have easy accessibility for maintenance, inspection and repair works without need for excessive dismantling. It will be preferred if one set of maintenance manual is sent along with the offer.
- 3.15.2 Any special tool/equipment required for maintenance and repair work should be indicated and quoted separately with item wise price and details.
- 3.15.3 Details of service facilities extended by the supplier to the buyer should be furnished. Service contract details after the guarantee period should also be furnished.

INSPECTION

- 3.16.1 The equipment will be inspected and tested by BHEL completely at the manufacturer's works prior to dispatch
- 3.16.2 Four copies of inspection test report should be furnished along with the equipment.

3.17 ACCESSORIES

- 3.17.1 The equipment should be complete with all the standard accessories and tool kit.
- 3.17.2 Optional accessories should be quoted separately with item wise price and details

3.18 SPARES

Recommended spares with item-wise price and details for two years of operation should be quoted separately

3.19 TRAINING

- 3.19.1 The commissioning engineer should give full demonstration of the equipment on one or two actual jobs and prove the equipment accuracy.

3.20 TRAINING

Suppliers have to provide free after sales service and free replacement to defective parts during the guarantee period.

Supplier has to train our technical / Engineers for operation and maintenance of the equipment. Training should be given at BHEL Bhopal. Separate charges for training if required be quoted separately.

3.21 GUARANTEE

The manufacture's guarantee in four copies should be furnished with respect to design material construction performance and against any manufacturing defects for a period of 18 months from the date of dispatch or 12 months from the date of commissioning whichever is later.

3.22 LITERATURE

Mfg. should supply the minimum four sets of following literature in English language.

1. General layout drawing showing dimensional details and location of various items.
2. Operating, servicing and installation manuals containing full electrical/ electronics schematics and wiring diagram, circuit diagrams and PCB details.
3. 8 copies of item wise packing list for each boxes should be furnished immediately after the dispatch.

3.23 MISCELLANEOUS

The supplier should also furnish the following technical details in their technical bids.

- i. Point to point clarification and details of our specification and clause as specified in general clauses above.
- ii. Full technical information supported with drawings/ catalogues and diagram etc.
- iii. Overall space required and air condition facilities if any.
- iv. Total requirement of power etc.
- v. Item wise details for complete scope of supply
- vi. List of customer to whom identical/similar equipment have been supplied along with details like type and model no. date of supply and commissioning. Full address of customers and order value must be mentioned.
- vii. Any facilities / service / material required from BHEL for satisfactory commissioning / trials and demonstration of all the parameters of the equipment should be mentioned specifically. Item not mentioned specifically in the quotation but required for satisfactory commissioning will have be arranged by the supplier.

3.24 EVALUATION CRITERIA AND QUALIFYING REQUIREMENT

The equipment should meet all the above points of our spec. and general clauses enclosed and bidders must furnish point to point replies against all the point of our above specification and general clauses enclosed, failing which their may not be considered.