

SCOPE OF SUPPLY FOR BATTERY OPERATED TOW MASTER (CAPACITY 5.0 TON)**A. Technical Specification:**

Sl. No.	Specification	Requirement
1	Capacity	5 Tons
2	No of wheels	3 or 4
3	Steering operation	Manual
4	Type of Wheels	Solid rubber tyre type.
5	No. of Drive Motor	One Motor
6	Drive Motor Rating	AC or DC, Rating 5 KW or above as per Vendor design.
7	Motor speed control	AC or DC
8	Speed Control type	Through Step/ Step less controller. In case of stepped controller, 4 forward & 1 reverse speed steps.
9	Operator Control	ON/OFF through key switch, Reverse/Forward, Speed Control and Brakes.
10	Brake	Hydraulic assisted Mechanical type
11	Battery	Exide make Lead Acid type Traction Battery without electrolyte, Uncharged, 48V and Ah rating suitable for Six hours of operation of the truck. Battery should have Auto fill system. Electrolyte shall be supplied separately along with order. Filling of electrolyte and charging should be done at the time of commissioning by Party at BHEL.
12	Charger Type	Electronic /Conventional suitable for fully charging the battery within 8 hours.
13	Emergency Power Cut-off Switch:	Yes
14	Finish Color :	Yellow
15	General	a. All standard protections in electric system shall be provided b. Standard two pin nylon connector shall be provided for battery connection.
16	Documents in hard copy	1. Operation Manual. 2. Service manual for Truck and charger, complete with parts catalogue. The parts catalogue shall include all bought items like bearings, wheels, speed controllers, Operator foot control etc. and their OEM details along with complete address -2 Nos.
17	Warranty	12 months warranty required from the date successful commissioning at BHEL Haridwar.

B. Spares:

Sl. No.	Item	Quantity
1	Speed Controller including Operator foot control	01 set with each Tow Truck
2	Wheels	02 Nos. (01 No. Front + 01 No. Rear) with each Tow Truck.

Ajay Kumar
28/08/14
Engineer (WEX-MT)

Chh Singh
25/08/14
Sr. Manager (TTX)