

73

Incl. Ref: No. C6230/2013/0359T

WEX: MT/AG/13-14

Date: 19.10.2013

**Technical Specification of 3 Ton, Battery Operated Fork Lift, Qty. – 03 Nos.**

1. Battery operated fork lift Capacity – 3000 Kgs at 500 mm load centre.
2. Collapsed Height – 2150mm
3. Max. Fork Height – 3000 mm
4. Standard lift Height – 3000mm (Twin Full Free Lift )
5. Standard free lift – 1530mm
6. Travel speed unladen – 13.00 kph.
7. Travel speed – laden – 11.00 kph.
8. Tilt angle mast (Forward / Backward) - 5° / 11°
9. Robust twin AC drive Motors for Carbon free, Brushless and smooth operation.
10. LCD Panel to display parameters like Travel speed, Hours Run, Battery discharge position, Fault code in malfunction of the machine.
11. Three pre-programmed profiles to be present in the machine from which the operator can select to suit the operation and application requirements.
12. AC hydraulic motor.
13. Gradeability :- at least 18% required.

**Accessories :-**


1. Fork lift should be fitted with one pair of suitable fork, horn, driver's seat with back rest & over head guard, Tool kit & solid rubber tyres.
2. Hydraulic system & hydrostatic power steering.
3. Load back rest.
4. Head & tail lights.
5. Rear view mirror.
6. Exide make suitable traction battery confirming to IS standards (charged).
7. Constant voltage charger suitable for above traction battery.
8. Two number operation/service manual along with complete electrical circuit diagram.
9. Battery roll out feature by Battery Rollers to enable faster, safer interchangeability of the battery.
10. Microprocessor based programmable MOSFET required to control the AC drive motors and AC Hydraulic motor.
11. Electronic differential required – differential action by the two independent AC drive motors to give excellent stability, minimum turning radius, excellent maneuverability.
12. Lift lock out system required.
13. Wet disc brakes required.
14. Regenerative braking required.

**Extra spares :-**

1. Main print board for battery charger (for each charger).
2. 01 No. Front & 01 no. rear wheel extra (For each fork lifter).
3. One no. spare power control unit of 3 ton fork lift (For each fork lifter).

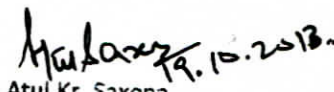
**Note. :**

1. 18 months Warranty is required from the date of commissioning at BHEL Haridwar.
2. Commissioning at BHEL, Haridwar Site is required.

  
(D. K. Singh) 19/10/13  
Asstt. Engr. (WEX-A/G)


  
Ajay Kumar 19/10/13  
Engineer (WEX-MT)

  
Charan Singh 19.10.13  
Manager (WEX-MT)


  
Atul Kr. Saxena 19.10.2013  
Sr. DGM (WEX-MT)

**Pre-Qualifying Requirement of Vendors for Supply of Battery Operated Fork Lifter (PQR):**

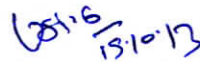
1. Vendor should have experience of manufacturing the offered or higher capacity Battery Operated Fork Lifters for at least 3 years.
2. The offered model should be from current manufacturing range.
3. Vendor to submit customers list at least 3 years for above mentioned supply.

  
19/10/13  
Dheeraj Kumar Singh  
Asstt. Engineer-II (WEX-MT)

Engineer (WEX-MT)

  
19/10/13

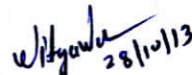
Manager (WEX-MT)

  
13/10/13

Sr. DGM (WEX-MT)

  
19.10.2013

AGM (WEX-PIg)

  
28/10/13

Manager (PPX-CAP)