



Bharat Heavy Electricals Limited

Technical Specification for 5.0 T Battery Operated Pallet Truck

EP/WEX/BOPT5/2018-19

SL.NO	Description	Range
1	Capacity	5.0 ton
2	Drive Motor/Pump Rating in KW	> 2 kW
3	Drive Type	AC/DC
4	Total Length mm	Bidders to specify.
5	Total Width mm	850-900 mm
6	Turning radius mm	< 1800 mm
7	Drive motor KW	> 2kW
8	Lifting motor kW	> 2kW
9	Travel speed km/h	0-6
10	Lifting arrangement	Shall be with lever /joystick operated attached to the Handle.
11	Lowering arrangement	Shall be with lever /joystick operated attached to the Handle.
12	Battery	24V
13	Battery Ampere Hour Rating	300 to 350 AH
14	Fork Length	NOT LESS THAN 2000mm
15	Range of lifting height of the fork with wheels	100-250mm
16	Min height of the fork from ground level with wheels	90 to 120mm
17	Gap between two forks	250 to 360mm
18	Maximum distance between two forks including fork width	650-850 mm
19	Maximum width of the fork	200 to 250 mm
20	Minimum sheet thickness of the fork	NOT LESS THAN 8.0 mm
21	Minimum sheet thickness of the body	NOT LESS THAN 4.0 mm
22	Net Weight	Bidders to specify
23	Battery Charger kit I/P Voltage	230V AC, 50 Hz
24	Minimum Continuous duty in fully charged condition	4 hrs.
25	Safety	a) Automatic lift cut off at 80% battery discharge condition. b) Emergency power cut-off switch on chassis panel. c) Anti-collision switch on tiller head. d) Hydraulic safety features like pressure relief valve and non return valves. e) Toe guard at the rear . f) Pressure compensated flow control.
26	Steering	a) Easy steering without much effort. b) Steering lock at 90 deg on either side to operate in limited range handle inclinations comfortable to operator.

27	Handle	Low hinged for greater maneuverability.
28	Tiller Head	Multifunction tiller head with ergonomically arranged operating elements for travel, lift, lowering and horn at fingertips for higher operator comfort and safety
29	Hydraulic system	a) Compact power pack unit with high pressure pump driven by sturdy motor. b) Lifting mechanism comprising of low lift hydraulic cylinder and load wheel linkages.
30	Brake	a) Electromagnetic disc brake with hard wearing , asbestos free liner. b) When the handle is close to vertical or horizontal position , the brake should become operational with simultaneous power cutoff.
31	Forks	a) Robust steel fabricated forks to ensure long lasting and durable service. b) The fork end shall be suitably tapered to provide better maneuverability.
32	Chassis	a) Robust construction with suitable design for stability during turning b) Swivel side support wheels to provide stability during travel and for safe maneuverability. c) Shall have suitable roller bed for easy removal of batteries.
33	Drive wheels	Drive wheel materials shall be Polyurethane.
34	Load test	Bidders to provide the facility of full load test at their works

Qualification Criteria:

Sl.No	BHEL Standard Terms & Conditions	Documents to be submitted by vendor
1	The vendor shall be an Original Equipment Manufacturer (OEM). Dealers have to submit authorisation certificate from OEM.	NSIC/authorisation certificate
2	The vendor should have manufactured and supplied minimum 2 nos of 5 ton BOPT in the last 2 years.	PO copies to be submitted for atleast 3 supplies made
3	The vendor shall submit audited balance sheet or tax returns or profit loss account for the last 3 years	Copy to be submitted