

 बी एच ई एल CBU BHEL	PURCHASE SPECIFICATION BATTERY OPERATED ELECTRIC STACKER- 2000 kG	Spec. No	EP:PVM:EQS:11
		Rev. No	00
		Page 1 of 5	


**TECHNICAL SPECIFICATION
 FOR
 BATTERY OPERATED ELECTRIC STACKER – 2000 Kg**

**ELECTROPORCELAINS DIVISION,
 BHARAT HEAVY ELECTRICALS LTD.,
 IISc POST, BANGALORE, INDIA 560012**

REVISION (00)	DETAILS:	PREPARED	DATE
		APPROVED	

COPYRIGHT AND CONFIDENTIALITY


The information on this document is the property of Bharat Heavy Electricals Limited.
 It must not be used directly or indirectly in anyway detrimental to the interest to the company

 CBU - EPD	PURCHASE SPECIFICATION BATTERY OPERATED ELECTRIC STACKER- 2000 kG	Spec. No	EP:PVM:EQS:11
		Rev. No	00
		Page 2 of 5	

A	SCOPE	Supply, installation & commissioning of 2000 Kg Battery Operated Stacker		
B	TECHNICAL SPECIFICATIONS:	Offer shall be corresponding to the parameters under the specifications below and point wise compliance to the following specification is to be provided.		
C	Quantity	8 Nos(EIGHT)		
SL NO	DESCRIPTION-BHEL's REQUIREMENT	SPECIFIED		Vendors confirmation
1.00	Load carrying capacity	kg	2000	
2.00	Load centre	mm	600	
3.00	Fork length	mm	1100 - 1200	
4.00	Total length	mm	1900 -2100	
5.00	Lowered height of forks	mm	90	
	Max Lift Height	mm	6000	
6.00	Height of base / load arm	mm	80	
7.00	Wheel base	mm	1350	
8.00	Hydraulic pump motor	Kw	Vendor to specify	
9.00	Lifting speed	mm/s	70-80	
10.00	Lowering speed	mm/s	160-180	
11.00	Drive motor	Kw	Vendor to specify	
12.00	Travel speed (stepless)	km/h	0-6	
13.00	Gradient (with load/without load)	%	6/8	
14.00	Battery		24 Volt, 270 Ah	
15.00	Battery Charger		24 Volt, 30 A	
16.00	Other features required			
a	Battery discharge indicator			
b	Battery Trolley			

COPYRIGHT AND CONFIDENTIAL

The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest to the company

 CBU - EPD	PURCHASE SPECIFICATION BATTERY OPERATED ELECTRIC STACKER- 2000 kG	Spec. No	EP:PVM:EQS:11
		Rev. No	00
		Page 3 of 5	

c	Operating hours counter			
d	Overload protection			
e	Polyurethane drive wheels			
f	Adjustable Forks			
g	Stand on Platform			
17.00	WHEELS			
a	Wheel[Drive wheel, Load wheel]		Polyurethane	
b	Service Brake		Mechanical Brake combined with traction current cut-out	
c	Wheels Nos front/rear		2 nos in front /2 wheels on a swivel base for greater stability	
18.00	NOTE:			
a	Optional accessories should be clearly mentioned along with offer.			
b	Offer should bring out clearly deviation if any, w.r.t, specification with technical justification on suitability of alternative offer.			
c	Operation, maintenance and spare parts manual for main equipment , battery and battery charger as to be supplied 3 COPIES EACH			
d	Detailed Hydraulic, Pneumatics, Electrical and Electronic circuit diagram has to be provided for main equipment. Preferred Makes: a) Hydraulic – Vickers / RexRoth b) Pneumatic :- SMC / Festo c) Electrical : - L&T / Schneider / Seimens			

COPYRIGHT AND CONFIDENTIAL


The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest to the company

	PURCHASE SPECIFICATION BATTERY OPERATED ELECTRIC STACKER- 2000 kG	Spec. No	EP:PVM:EQS:11
		Rev. No	00
		Page 4 of 5	

e	List of recommended spares for 2 years with price list to be provided along with the offer to procure spares with the equipment			
f	Bidder shall have service establishment in Bangalore for speedy service aspects during and after guarantee period			
g	All service requirements such as power, lubricants arrangements etc. has to be listed and intimated well in advance			
h	Training of 4 persons for operation and maintenance of the equipment to be provided			
i	The equipment has to be offered for pre inspection at manufacturer's works for carrying out performance, accuracy, geometrical tests as per IS standards & as per the defined specifications.			
j	Service engineer is to be deputed during initial trial run and commissioning period			
k	The lubrication points are to be marked with identification plates on the machine with respect to O & M manual			
l	Traction Battery is to be heat sealed with manufacturer name and brand			
m	Battery charger is to be of reputed brand and with the availability for local service agency for supply of spares and service			
n	Apart from the above general points specific maintenance requirements has to be met with depending on the nature of equipment procedure			

COPYRIGHT AND CONFIDENTIAL

The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest to the company

 <p>बी एच ई एल CBU - EPD</p>	PURCHASE SPECIFICATION BATTERY OPERATED ELECTRIC STACKER- 2000 kG	Spec. No	EP:PVM:EQS:11
		Rev. No	00
		Page 5 of 5	

o	Standard safety regulation points to be displayed on the equipment direction, UP or DOWN etc., with engraved caution plates			
	<u>QUALIFYING CRITERIA</u>			
1	BIDDER SHOULD BE ORIGINAL EQUIPMENT MANUFACTURER (OEM) OR AUTHORIZED DEALER / REPRESENTATIVE OF THE QUOTED ITEM. BIDDER TO SUBMIT COMPANY REGISTRATION CERTIFICATE AS A MANUFACTURER ANY OTHER DOCUMENT TO ESTABLISH THE BIDDER AS MANUFACTURER.			
2	BIDDER TO SUBMIT COPY OF ATLEAST FIVE (5) PURCHASE ORDER FOR SUPPLY IN THE LAST 3 YEARS FROM THE DATE OF BID SUBMISSION. THE COMMISSIONING AND PERFORMANCE CERTIFICATE SHALL ALSO BE SUBMITTED. BHEL RESERVES THE RIGHT FOR INDEPENDENT VERIFICATION OF THE REFERENCE.			
3	THE VENDOR SHALL SUBMIT AUDITED BALANCE SHEET OR TAX RETURNS OR PROFIT LOSS ACCOUNT FOR THE LAST 3 YEARS			
4	OFFER SHALL BE FOR NEW EQUIPMENT AND NOT FOR ANY REFURBISHED OR USED EQUIPMENT			

COPYRIGHT AND CONFIDENTIAL

The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest to the company