

Technical specification for 3T Pillar Mounted Jib Crane with Electric Hoist

Sl No.	SPECIFICATION	
1	Equipment	Jib Crane
2	Application	Outdoor
3	Safe working Load	3 MT
4	Height of Lift	8 Mtrs
5	Arm Length	8 Mtrs
6	Hoist	3 Ton wire rope hoist with electric trolley
7	Operation & make	Through pendent push button PB Pendent make : Schneider / L&T
8	Hoist speed	4 MPM (main) & 0.4 MPM (Micro) [Controlled by VFD]
9	Cross Travel speed	8 – 15 MPM (controlled by VFD)
10	Swivel Speed	0.5 to 0.7 rotation / min [controlled by VFD]
11	Swivel	350 deg Motorized
12	Runway Beam	RSJ Steel Fabricated
13	Hoist Motor	SQ Cage Motor IP 54 Enclosure Class-B Insulation Make:NGEF/KEC/SIEMENS/ABB/CGL HP and RPM bidder to specify
14	Cross Travel Motor	Geared Motor IP 54 Enclosure Class-B Insulation Make: SEW /Bonfigoli HP and RPM bidder to specify
15	Swivel Motor	Swivel Motor IP 54 Enclosure Class-B Insulation Make: SEW /Bonfigoli /NORD HP and RPM bidder to specify
16	Hoist Brake	ACEM Disc Make : PETHE
17	CT Brake	DCEM Disc Make : SEW / Bonfigoli
18	CT Wheel	EN-19 or EN -24 Hardened to 22-28 HRC
19	Swivelling Brake	DCEM Disc Make : SEW / Bonfigoli
20	Wire Rope	10mm dia No of falls = 4/2 6/36 construction IS 2226 / Factor of safety = 5



EPD - BANGALORE

**Purchase Specification for 3T
Pillar Mounted Jib Crane with
Electric Hoist**

**SPECIFICATION NO.
EP-WEX-JIB/3T/2018-19**

21	Rope Drum	Seamless pipe IS 2226
22	Hook	Forged C hook swivelling type with safety latch as per IS 3815 Make EEK / FTC / Smriti Forge
23	Power supply	415V, 50 HZ, 3 PH AC
24	Control supply	110V, Single phase, AC
25	Make of Switch gear elements, MCB, Contactors, OLR	L&T / Siemens / Schneider
26	Make of VFD	ABB/L&T/Yaskawa / Mitsubishi / Toshiba / Siemens
27	Limit switches	Bidder to specify types provided for Hoist, CT. Make : BCH / Jaibalaji
28	Canopy for Hoist	Suitable Canopy to be provided. Bidder to specify details.
29	Standard accessories to be supplied along with Jib crane	Bidders to specify
30	Supply of Civil Foundation bolts and drawing.	Supplier to give suggested civil foundation drawing and Foundation bolts at their cost
31	Scope of BHEL	• Load for load test will be provided • Free power during erection • Crane unloading • Civil foundation (as per your suggested drawing)
32	Party should have service and spare supports available in India	Bidders to specify address and contact no.
33	SUPPLY, COMMISSIONING & TRAINING AT BHEL SITE:	The supply & commissioning of Jib crane should be at BHEL EPD Transit Insurance shall be in the scope of Supplier. Training for Operation & maintenance should be provided to BHEL personnel during commissioning.
34	Pre dispatch Inspection	Pre dispatch inspection shall be carried out at supplier's works by BHEL engineer. Supplier has to inform well in advance (7 days) about the readiness of material for inspection. Supplier has to make all arrangement for the inspection within the quoted rate.
35	Documents required along with dispatch:	(a) Load test certificates, (b) 2 sets of O&M manual, Integrated list of Spare parts & their catalogue and applicable schematic drawings (c) Guarantee Certificate – Minimum 12 month from the date of commissioning or 18 months from date of dispatch of at site whichever is early.

Qualification Criteria

S/no	BHEL Standard Terms & Conditions	Documents to be submitted by vendor
01	Bidder should be original equipment manufacturer (OEM) of the quoted item. Bidder to submit company credentials to prove as OEM.	Registration certificate as a manufacturer or any other document to establish the bidder as manufacturer.
02	Bidder should have manufactured, supplied and successfully commissioned minimum of 3 numbers of Material handling Cranes of 2 T or above in the last 5 years.	Bidder to submit copy of purchase orders and performance certificates from the users.
03	The bidder shall submit audited balance Sheet or tax returns or profit loss Account for the last 3 years attested by approved auditor	Copy of documents
04	Offer shall be for new equipment and not For any refurbished or used equipment	YES / NO


ಪ್ರ. ರವಿ. ಉಪ ನಿರ್ದೇಶಕರು / ವೆಕ್ಸ
ಬಾई ಇವಿ, ಉಪ ನಿರ್ದೇಶಕರು / ವೆಕ್ಸ
Y. Ravi, Dy. Manager / wex
BHEL-EPD, Bangalore - 560 012