



Sl.No.	TECHNICAL SPECIFICATION/PARTICULARS GENERAL PURPOSE ERECTION CRANE
1	Description : Crawler Mounted Lattice Boom Hydraulic Crane)
2	Standard - As per DIN/ISQ/ANSI/BIS Standard
3	Stability rating - 75%
4	Critical Loads to be handled by offered crane (360° slew) - Minimum 27 MT at minimum 12 M radius with minimum clear height of 58 M under hook with main boom Note : Weight of hook block and lifting slings shall be deducted from the lifting capacity of the crane to meet above requirements.
5	Main boom and jib : Minimum length of main boom : 75 M Minimum length of fixed jib : 30 M (With at least 60 M main boom) with minimum 2 offsets
6	Boom hoisting, slewing, main/aux.hoisting, travel drives etc: All Hydraulic drives
7	Central Ballast - Base Frame for full ballast to meet offered load chart
8	Engine - Turbo charged water/coolant-cooled diesel engine of adequate; power
9	Control levers - Fully electric synchronizing device by two four way control levers and two two-way control levers, self-centering joy sticks type
10	Winches - All winches (main hoist, jib hoist and boom/derrick hoist) and to be operated by Hydraulic motors, drum with integrated planetary and spring applied hydraulically released disc brake
11	Crane Cabin - Spacious all steel construction cabin, swiveling, sidewise with operating and control/monitoring instruments Cabin to be preferably titable backward for better vision
12	Crane Operation - Multiple movements simultaneously
13	Safety devices - The crane shall be equipped with all the following safety devices: a) Cut off devices when exceeding the permissible load moments. Electronic control to stop all dangerous operation in case of instability. Safe load indicator with visual display in operator's cabin for load chart, maximum allowed load, gross load, net load on hook, operating radius & angle, boom/jib length, boom/jib sheave height etc., and fault display b) Safety vale against pipe and hose rupture

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	<p>c) Hoist limit switch</p> <p>d) Drum limit switch at 3 rest rings</p> <p>e) Display arrangement for self error detection system</p> <p>f) Self Test system</p>
14	Electrical system - 24 V DC
15	Hook blocks - Hook block for maximum rated capacity of the crane offered shall be provided with the crane, in addition suitable hook blocks of approximately 100 MT, 50 MT and 25 MT capacities, and a ball hook block shall be provided.
16	Brakes - Preferable Disc type Brakes
17	Self erection system : The crane should have self erection system of its own
18	Free fall facility : Free fall facility shall be provided for the job ball hook
19	Over all Crawler end to end outer width of the crane-Not above 7.6 M
20	Spare Parts - Mandatory spare parts for two years operation to be supplied with the crane
21	<p>Experience - Bidder shall meet all the following requirements:</p> <p>a) Bidder should have been manufacturing and supplying crawler crane of quoted capacity or higher for at least past two years</p> <p>b) Minimum 2 units of quoted capacity and quoted make crawler cranes should have been supplied and working outside the country of their manufacture</p> <p>c) Offered model should be in current manufacturing range</p>
22	Commissioning : Supervision of assembly and commissioning of crane shall be provided at BHEL site by the vendor without any additional charges
23	After Sales Service Facility : The manufacturer of his authorized service provider shall have suitable infrastructure in India to adequately take care of after sales servicing/repairs of the crane
24	Inspection - Crane shall be inspected and load tested at manufacturers'
25	Training - For each crane, necessary training for operation & maintenance shall be given to two BHEL personal free of charge for 1 week at manufacturers works and again at site for another 1 week during commissioning
26	<p>Drawing/Documentation</p> <p>3 Sets - Operating and Maintenance manual along with equipment part list, shop manual for bought out items to be submitted to the customer during the time of delivery of the equipment.</p>