

TECHNICAL SPECIFICATIONS

SL. NO	DESCRIPTION	BHEL REQUIREMENT
01	CRANE	CRAWLER MOUNTED LATTICE BOOM HYDRAULIC CRANE
02	STANDARD:	AS PER DIN/ISO/ANSI/BIS STANDARD
03	STABILITY RATING:	75%
04	CRITICAL LOADS TO BE HANDLED BY OFFERED CRANE (360°Slew)	Minimum 56 MT at minimum 12M radius with minimum clear boom pont height of 70M 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.
05	MAIN BOOM	Minimum length of Main boom : 85M
06	FIXED JIB	Minimum length of Fixed Jib: 20M (With at least 70M Main boom) with minimum 3 offsets
07	BOOM HOISTING, SLEWING, MAIN/AUX.HOISTING ,TRAVEL DRIVES etc	ALL HYDRAULIC DRIVES
08	CENTRAL BALLAST	Base Frame for full ballast to meet offered load chart
09	ENGINE	Turbo charged water/coolant cooled diesel engine of adequate power.
10	CONTROL LEAVERS	Fully Electronic synchronizing device by two four way control levers and two 2 way control leavers self centering joy sticks type
11	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
12	CRANE CABIN	Spacious, all steel construction cabin, swivelling sidewise with operating and control/ monitoring instruments. Cabin to be preferably tiltable backward for better vision.
13	CRANE OPERATION	Multiple movements simultaneously.

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14	SAFETY DEVICES	<p>The crane shall be equipped with all the following safety devices:</p> <ul style="list-style-type: none"> 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 valve against pipe and hose rupture. c) Hoist Limit switch. d) Drum Limit switch at 3 rest rings. e) Display arrangement for self error detection system f) Self Test system g) 24V double flash Aviation light mounted on lattice boom or jib head with battery charger 240V/24V h) Anemometer
15	ELECTRICAL SYSTEM	24V DC
16	HOOK BLOCKS	Hook blocks for maximum rated capacity of the crane offered shall be provided with the crane. In addition suitable hook blocks of approximately 100 MT, 50MT, and 25MT capacities and a ball hook block shall be provided
17	BRAKES	Preferable Disc type Brakes.
18	SELF ERECTION SYSTEM	The crane should have self erection system of its own
19	FREE FALL FACILITY	Free fall facility shall be provided for the Jib ball hook
20	OVERALL CRAWLER END TO END OUTER WIDTH OF THE CRANE	Not above 8M
21	SPARE PARTS	Mandatory spare parts for two years of operation to be supplied with the crane.

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22	EXPERIENCE	<p>Bidder shall meet all the following requirements.</p> <ul style="list-style-type: none"> a) Bidder should have been manufacturing and supplying crawler crane of quoted capacity or higher for at least past 5 years. b) Minimum 2 units of quoted capacity and quoted make crawler cranes should have been supplied and working out side the country of their manufacture c) Offered model should be in current manufacturing range.
23	COMMISSIONING	Supervision of assembly and commissioning of crane shall be provided at BHEL site by the Vendor without any additional charge.
24	AFTER SALES SERVICE FACILITY	The manufacturer or his Authorized service provider shall have suitable infrastructure in India to adequately take care of after sales servicing /repairs of the crane.
25	INSPECTION	Crane shall be inspected and load tested at manufacturer's works and at BHEL site as per the International norms and mutually accepted quality plan according to the load charts supplied along with the offer. At site load test shall be carried out with available loads.
26	TRAINING	For each crane, necessary training for operation & maintenance shall be given to two BHEL personal free of charge for one week at manufacturer's works and again at site for another one week during commissioning.
27	DRAWING/ DOCUMENTATION	3sets –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.