

SI. No.	<p align="center">TECHNICAL SPECIFICATIONS/PARTICULARS OF CRAWLER CRANE SUITABLE FOR CRITICAL LOADS OF 250MW BOILERS (As revised in a meeting of Facility Engg Heads of all Regions and Representative of BHEL Trichy in a meeting held on 28th & 29th April 2008 at PS-SR, Chennai)</p>
1	Description — Crawler Mounted Lattice Boom Hydraulic Crane.
2	Standard — As per DIN/IS/ANSI/BIS Standard.
3	Stability rating —75%
4	Critical Loads to be handled by offered crane (360° slew)— Minimum 76 MT below hook at minimum 14 M radius with minimum clear height of 72 M under hook. Note: Above capacities should be met either with the basic crane or the basic crane with suitable capacity enhancer. 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 fixed jib : Minimum length of main boom: 100 M Minimum length of fixed jib: 24 M (With at least 76 M main boom)
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, preferably Cummins/Caterpillar make
9	Control levers —Fully electronic synchronizing device with self centering joysticks
10	Winches — All winches (main hoist, jib hoist and boom/derrick hoist) to be operated by hydraulic motors and drum with integrated planetary and spring applied hydraulically released disc brake.
11	Crane Cabin — Spacious cabin, swiveling sidewise with operating and control/monitoring instruments.
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 valve against pipe and hose rupture. c) Hoist & boom hoist limit switches. d) Display arrangement for self error detection system. e) Anemometer. f) Self Test system. g) Electronic inclinometer.
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 200 MT, 100 MT and 50 MT capacities, and a ball hook block shall be provided.
16	Self erection system: The crane should have self erection system of its own.
17	Over all crawler end to end outer width of the crane — Not above 9 M
18	Spare Parts: (a) 2 Nos. Lattices of 6M length of each size of lattices pipes used in the boom sections. (b) 6 sets of Engine Filters and Hydraulic Filters.
19	Experience - Bidder shall meet all the following requirements: a) Bidder should have been manufacturing and supplying crawler cranes of minimum 200 MT capacity or higher for at least past 3 years. b) Minimum 2 units of quoted capacity or higher capacity crawler cranes should have been supplied and working anywhere in the world. c) Offered model should be in current manufacturing range. d) Offers can be submitted directly or through Indian Agent.
20	Commissioning: Supervision of assembly and commissioning of crane shall be provided at BHEL site by the vendor without any additional charges.
21	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.
22	Inspection — Crane shall be inspected and load tested at manufacturers' works and at BHEL site as per 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.
23	Training — For each crane, necessary training for operation & maintenance shall be given to two BHEL personnel free of charge for 1 week at manufacturers works and again at site for another 1 week after commissioning.
24	Drawing / Documentation 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.

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