



## **Bharat Heavy Electricals Limited**

Power Sector - Southern Region

474, Anna Salai, Nandanam, Chennai - 600 035.

Phone: 044 - 24342458 Fax: 044 -24328516

Email :ram@bhelpssr.co.in , guna@bhelpssr.co.in

**BHE PSSR PUR : EC19011**

**DATE : 20 06 2009**

Addendum No:2 to NIT 6481 - EC19011

Please ref our above enquiry hosted through web page ,NIT No: 6481 for supply of Lattice boom hydraulic crane for 800MW boiler cranes . The following amendments / Informations are being issued

- 1) The Technical specification of above tender is replaced with the following specification and all other terms and conditions are remain unchanged

Regards ,

For BHARAT HEAVY ELECTRICALS LTD

For AGM / P&S

**TECHNICAL SPECIFICATION OF CRANE REQUIRED FOR  
800 MW PROJECTS**

Sl. No	TECHNICAL SPECIFICATION
1	<b>Description :</b> Crawler Mounted Lattice Boom Hydraulic Crane
2	<b>Standard :-</b> As per DIN/ISO/ANSI/BIS Standard
3	<b>Stability Rating – 75%</b>
4	<p><b>Critical Loads to be handled by offered Crane (360° slew)</b></p> <p>a) Minimum 265 MT below hook at minimum 18 M radius with minimum clear height of 116 M under hook. This requirement can be met with main boom or with suitable boom &amp; jib combination. The hook block with a ceiling girder flange width of 1.5 M must not foul with the boom at girder elevation (Top of girder) of 111 M. At this elevation, a minimum clearance of 0.50 M must exist between the boom and the girder flange. A lifting drawing showing clearances between the boom and the girder flange shall be submitted with the technical offer.</p> <p>b) Minimum 10 MT below hook at minimum 50 M radius with minimum clear height of 140 M under hook with suitable boom and jib combination.</p> <p>Note: Above capacities should be met either with the basic crane or 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.</p>
5	<b>Boom hoisting, slewing, main/aux. hoisting, travel drives etc:</b> All Hydraulic drives
6	<b>Central Ballast:-</b> Base Frame for full ballast to meet offered load chart.
7	<b>Engine:-</b> Turbo charged water/collant-cooled diesel engine of adequate power, preferably CUMMINS/CATERPILLAR make.
8	<b>Winches:-</b> All four winches (main hoist, jib hoist and a boom/derrick hoist) to be operated by hydraulic motors, drum with integrated planetary and spring applied hydraulically released disc brake.
9	<b>Crane cabin:-</b> Spacious cabin, swiveling sidewise with operating and control/monitoring instrument.
10	<b>Crane Operation:-</b> Multiple movements simultaneously.
11	<p><b>Safety devices:-</b> The crane shall be equipped with all the following safety devices:</p> <p>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 and angle boom/jib length, boom/jib sheave height etc., and fault display.</p> <p>b) Safety valve against pipe and hose rupture.</p> <p>c) Hoist &amp; boom hoist limit switches.</p> <p>d) Display arrangement for self error detection system.</p> <p>e) Anemometer</p> <p>f) Self Test System.</p>

	g) Electronic inclinometer.
12	<b>Electrical System</b> :- 24 V DC
13	<b>Aviation Light</b> : 24 V double flash light mounted on lattice boom or jib head with battery charger 220/24 V
14	<b>Hook Block</b> : Suitable Hook blocks of approximately 450 MT, 250 MT, 100 MT capacities and a ball hook block to be provided. Modular hook block also acceptable.
15	<b>Tool Box</b> : It shall contain 2 Nos. track adjusting hydraulic jacks, 4 Nos. Boom handling sings besides Standard Hydraulic Test kit and Standard Took Kit.
16	<b>Observation Camera</b> : 2 Nos. to be installed at superstructure in winch area with a single common monitoring unit in crane cabin for observation of winches
17	<b>Self Erection System</b> : The crane should consist of self erection system
18	<b>Spare Parts</b> : a) 2 Nos. Lattices of 6M length of each size of lattices pipes used in boom sections. (b) 6 sets of Engine Filters and Hydraulic Filters
19	<b>Experience – Bidder shall meet all the following requirements:</b> a) Bidder should have been manufacturing and supplying crawler cranes of minimum 600 MT capacity or higher for at least past 3 years. b) Minimum 2 units of quoted capacity of higher capacity crawler cranes should have been supplied and working any where in the world. c)Offered model should be in current manufacturing range d)Offers can be submitted directly or through Indian Agent
20	<b>Commissioning</b> : Supervision of assembly and commissioning of crane shall be provided at BHEL site by the vendor.
21	<b>After Sales Service Facility</b> : The manufacturer or his authorised service provider shall have suitable infrastructure in India to adequately take care of after sales servicing/repairs of the crane. 6 periodic service visits each of 2 days duration shall be provided by the Service Engineer of the Indian Agent & 3 visits shall be provided by the manufacturer service engineer during warranty period.
22	<b>Inspection</b> – 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.
23	<b>Training</b> : Necessary training for operation & maintenance shall be given to two BHEL personnel free of charge for 2 weeks at manufacturers works and again at site for another 2 weeks during commissioning
24	<b>Drawing/Documentation</b> 3 sets-operation and maintenance manual along with equipment part list, shop manual (for bought out items)boom repair manuals are to be submitted to the customer during the time of delivery of the equipment.

