



**BHARAT HEAVY ELECTRICALS LIMITED
CENTRALISED STAMPING UNIT & FABRICATION
PLANT
Jagdishpur**

**Tender for miscellaneous steel structural works of
Manufacturing Plant at Jagdishpur**

Tender Enquiry No: BHE/FP/CVL/006

SECTION – IV

BILL OF QUANTITIES & PRICE SCHEDULE

**BHARAT HEAVY ELECTRICALS LIMITED
(A GOVERNMENT OF INDIA UNDERTAKING)
CSU & FP
Industrial Area
Jagdishpur (UP) 227817**



Centralised Stamping Unit & Fabrication Plant, Jagdishpur

BILL OF QUANTITIES AND PRICE SCHEDULE (MISCELLANEOUS STEEL STRUCTURAL WORKS)

SL NO.	DESCRIPTION OF ITEMS FOR STEEL STRUCTURAL WORKS FOR MANUFACTURING PLANT AT JAGDISHPUR	UNIT	QTY.	RATE		AMOUNT(Rs)
				In Figures ,Rs	In Words, Rs	
1	STRUCTURAL STEEL WORKS: Shop fabrication of complete structures involving rolled sections (including mild steel rounds), built up sections fabricated out of plates, rolled sections and combination of plates and rolled sections, in columns, beams, gantry girders and all types of steel structures and members, making shop fabrication drawings as per specifications including shop painting with a coat of primer and also inclusive of all necessary quality test to the satisfaction of engineer and loading ,transportation for shop fabricated steel structures to site including unloading, stacking, handling, re-handling, preservation and verification of shop fabricated steel structures at site for the following details and sub-items--					
1.1	Fabrication, erection, alignment, welding, primer painting (primer coat consisting of 2 coats of redoxide zinc-chromate as per IS:2074 & IS:1477 (Parts I & II). One coat to be applied at shop and the other after erection) of structural steel made from mild steel conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052 and mild steel rounds, at all elevations involving rolled sections (including mild steel rounds), built up sections fabricated out of plates, rolled sections and combination of plates and rolled sections, in columns, beams, gantry girders, bunkers, silos, hoppers, roof trusses, portals, laced purlins, space frames, shear connectors, hangers, struts, monorails, galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles, base plates, splice plates, chequered plate flooring, decking and seal plates, diaphragm, steel frame grid over false ceiling, walkway platforms, ladders, stairs, stringers, treads, landings, hand-rails, toeplates, MS Rungs, insert plates, edge angles, embedments, lugs, posts, stays,louvers, lacings, gusset plates, safety chains for walkways adjacent to crane girders etc, collection of steel from stores, transportation, straightening, making cutting plan, cutting, bending, rolling, grinding, drilling, bolting, erection bolts & nuts (weight of erection bolts & nuts not payable . Supply of permanent bolt of grade C mild steel bolts & nuts to be paid separately , assembly, edge preparation, preheating (& use of low hydrogen/ radiogenic electrodes as per specification)post heating, testing of welders, inspection of welds, visual inspection, non destructive and special testing, rectification and correction of defective welding works, production test plate, inspection and testing, erection scheme, protection against damage in transit, stability of structures, installation of temporary structures (Scaffolding, Access ladders, Working Platforms etc.), setting column bases, surface preparation, touch-up painting, dismantling and removal of all temporary structures (Steel shall be supplied by BHEL as free issue)	MT	130			
1.2	Same as item 1.1 above but including supply of structural steel by the contractor as per specifications	MT	15			
1.3	Providing & application of synthetic enamel paint of Berger make and colour in coats of minimum 50 micron over steel sections (DFT) already having primer coats at all elevations to achieve an even shade with all materials, labour, equipment, handling, including protection and cleaning, scaffolding etc. complete as per specification, drawings and instructions of the Engineer.	MT	145			
1.4	Supply and fixing in positing of high strength structural bolts (of property class 8.8 and product grade 'C' as per IS: 1367) and conforming to IS: 3757 and high strength structural hardened and tempered nuts (of property class '8' as per IS:1367) conforming to IS:6623 with hardened and tempered washers as per IS:6649 etc. up to and inclusive of 39 mm diameter and upto 300 mm long for structural steel work complete as per specification, drawings and instructions of the Engineer.	Kgs	1,200			
						GRAND TOTAL=