



**BHARAT HEAVY ELECTRICALS LIMITED**  
**RAMACHANDRAPURAM::HYDERABAD::32**  
**FACTORY CIVIL ENGINEERING DEPARTMENT**

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-01/16-17, Dt: 18.04.2016

PRICE BID

Item no.: 1

**Name of work:- Replacement of Roof Structures in Cross bay and fettling shop of 05 block (Non-Ferrous Shop).**

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	<b>Removal Existing roof/side cladding of AC Sheets roofing</b> , louvers side cladding including loading, carting, unloading etc., with in the premises up to a lead of 2 km as directed.	7507.00	Sqm	39.83	2,99,003.81
2	<b>Dismantling steel work</b> in built up sections in angles tees, flats and channels including all guest plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 2 km lead. Work has to be carried out at a <b>height of 16.00 m.</b>	299.00	MT	4366.80	13,05,673.20
3	<b>Removing of existing AC North light galzing</b> including loading, carting, unloading etc.; within the premises up to a lead of 2.00 KM as directed.	1,950.00	Sq.m	39.83	77,668.50
4	<b>Supply and Fixing North Light curves</b> in required girth with 0.5 mm color Aluminium zinc alloy coated metallic sheets upto a length of 2.5 M having curved width upto 600 mm fixing to the steel members with self drilling / self stitching, fasteners at a maximum of 500 mm c/c along the length of capping, flashing etc., complete as directed by Engineer-in-charge including the cost of Aluminium zinc alloy coated metallic sheets, labour etc., complete.	780.00	Sq.m	720.00	5,61,600.00
5	<b>Supply &amp; Fixing of high performance industrial roof vents(Turbo Ventilators) 600mm dia</b> made of aluminium alloy, designed to meet AS-2428.1.1993 to wind speed of 200 Km/Hr and to the entry of wind driven rain at a range of 2.5 L/Sec. under cyclone condition and the profile of the turbo ventilator should match with the profile of the roofing sheet. The payment will not be made for the roofing sheet moulded with the turbo ventilators.(Ridge profile to be matched with roofing sheet)	70.00	Each	7500.00	5,25,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
6	<b>Fabrication of structural steel work</b> including all materials going into the process of fabrication and forming an integral part of steel work together with all shop and site rivets and electrodes for site welding as necessary and all site connections comprising sag rods, floor beams, girders, bracings, trusses and frame work for fixed false ceiling and for movable false ceiling, purlins with channel / angles, MS flat supports including all connections as per detailed drawings connected steel works etc., cleats, gusset plates, all bolts, nuts, washers, base plates, anchor bolts as per detailed drawings, cutting, welding and painting 2 coats of red-oxide primer before erection etc., complete. The rate shall include painting 2 coat of Red-oxide as per IS specifications and all charges for handling, leading and loading at the fabrication yard. The raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at their stores. Work has to be carried out at a <b>height of 20 m.</b>	462.00	MT	8871.00	40,98,402.00
7	Erection of Steel work out lined in item No. 6 above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site rivetting, bolting, jointing and site welding where ever required. Work has to be carried out at a <b>height of 20 m.</b>	462.00	MT	5052.00	23,34,024.00
8	<b>Painting at site of all structural steel work</b> with 2 coats of Epoxy paint after 1 coat of red oxide of approved shade to trusses, columns, girders, bracings etc., with Epoxy paint/Synthetic enamel as required etc., complete. The rate includes 1 coat of redoxide which is supply by contractor including surface preparation of structural steel, Epoxy/synthetic enamel painting etc.(The required Synthetic enamel/Epoxy paints will be supplied by BHEL on free of cost)	890.00	MT	696.00	6,19,440.00
9	<b>Supplying and fixing plain PVC pipe of 160 mm dia</b> with 6Kg/Sqcm. of approved quality( make Sudhakar/Nandi) with specials, accessories like fixing clamps and approved sealing /jointing compound on the exterior of the inserted portion of the fitting and fixing in position and joining to MS gutters , including cost of all materials ,sealing compound ,labour etc., for all heights complete.	1404.00	RM	598.80	8,40,715.20
10	<b>Supplying and fixing of Fibre Reinforced acrylic roofing sheets 3mm thick</b> of light blue/white shade & of approved brand to match with Roofing sheet including cost of all materials such as self driven bolts,nuts,washers etc. and fixing at all heights of the factory blocks etc. complete as directed.	375.35	Sq.M	1302.00	4,88,705.70

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
11	<b>Providing &amp; Fixing of non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets</b> (as per IS: 14871) roofing up to any pitch and also for <b>north light curves suitable to the these sheets as per site requirement</b> fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required etc. complete all as directed by Engineer-in-charge.	7507.00	Sq.M	375.75	28,20,755.25
12	<b>Supply and fixing of 5 mm thick Multi wall polycarbonate sheets</b> and anadoised aluminium glazing bars together with complete accessories for North light glazing of factory clocks including cost of all materials labour etc. as directed.	1560.00	Sq.M	1207.50	18,83,700.00
13	<b>Supply &amp; Fixing of 0.5 mm thick colour sheet flashings</b> hood / ridges/ triangular portion closers to require shape with self threaded screws etc. complete as directed.	60.00	Sq.M	900.00	54,000.00
14	Cleaning, removing rust with grider, doing wire brush on the existing gutter, applying chemical coating and placing of 1mm fibre sheet and applying the chemical coating on the fibre. The above procedure is adopted up to the 3mm thickness layer.	190.00	Sq.M	1390.84	2,64,259.60
	<b>Total Value of work</b>			₹	<b>1,61,72,947.26</b>

**Note:**

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work or part there of subject to a maximum penalty of 10% of the gross value of work executed after the period of completion.
2	The rates are inclusive of all taxes and duties except Service tax, swatch bhara tax which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.

**Note :** The bidders are required to quote the tender value on percentage (%) basis at excess or less or on par with estimate value in figures and words.

Tender %	In figure	In words
Excess		
Less		
Estimated value		