



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-11/2012-13, Dt: 21.07.2012

PRICE BID

Item no.: 4

Name of work: Labour charge for Replacement of AC sheet roofing / side cladding with aluminium zinc alloy coated metallic roofing sheets at various locations in the factory area.

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1	Removing carefully the Existing roof/side cladding of AC Sheets roofing, louvers side cladding including loading, carting, unloading etc., handing over the material to Division stores of BHEL with in the premises up to a lead of 2 km as directed etc. complete as directed by Engineer-in-charge.	25,000.00	Sq.m	43.65	10,91,250.00
2	Fixing of colour coated aluminium zinc alloy coated metallic hirib profile sheet of nominal 1015-1020mm effective cover width and 28-30 mm deep ribs with subtle square fluting in the five pan at nominal 202-205mm center-to-center. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feen material is manufactured out of nominal 0.45mm base metal thickness (BMT) or 0.5 mm TCT, Hi-Strength steel with minimum 550 MPa yield strength metallic hot dip coated with aluminium -Zinc alloy (55 % Aluminium ,45 % Zinc)as per AS 1397-Zincalume AZ150 (Min 150 Grams / Sq.Mt) Total on both sides) with colour bond steel quality paint coat as per AS/NZS 2728 type 3-4.The paint shall have a total coating thickness of nominal 35 µm, Comprising of nominal 20µm exterior coat on top surface and nominal 5 µm reverse coat on back surface over nominal 5µm primer coat on both surfaces of approved colour shade by concern authority. The steel manufactures test certificate for the certificate for the chemical and mechanical properties of steel must be submitted for approval by the engineer-in-charge.**	25,000.00	Sq.m	100.00	25,00,000.00
3	Providing and Fixing barge boards in required girth (200 mm horizontal, 200 mm vertical) /ridges with 0.50 mm color Aluminium zinc alloy coated metallic roofing sheet sheets upto a length of 2.50 M, fixed to steel members with self drilling / self stitching fasteners at maximum 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 roofing sheet, fixtures, fittings etc. complete as directed by Engineer-in-charge.	452.00	Sq.m	800.40	3,61,780.80

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
4a	Applying two coats of synthetic enamel/ Aluminium paint of given shade to old steel work at all heights, including scraping old surfaces, cost of all labour, tools and other incidentals etc. Complete. (Only Synthetic enamel Paint will be supplied by BHEL) for structural steel work like roof trusses, purlins, bottom chord bracings.(The structural steel work of roof for an area of 1.00 Sq.m weighs 30 kg's) etc. complete as directed by Engineer-in-charge.	25,000.00	Sq.m	17.90	4,47,500.00
b	Applying two coats of synthetic enamel / Aluminium paint of given shade to old steel work at all heights, including scraping old surfaces, cost of all labour, tools and other incidentals etc. Complete. (Only Synthetic enamel Paint will be supplied by BHEL) for side cladding , sheeting post column , roof louvers & runners.(The structural steel work of side cladding, sheeting post column, runners & louvers for an area of 1.00 Sq.m weighs 21 kg's) etc. complete as directed by Engineer-in-charge.	100.00	Sq.m	12.50	1,250.00
5	Supplying and fixing 5 mm thick Multi wall polycarbonate sheets and anodised aluminium glazing bars together with complete accessories for North light glazing of Factory blocks including cost of all materials, labour etc. except service tax etc. complete as directed by Engineer-in-charge.	5.00	Sq.M	1,207.50	6,037.50
6	Supply & fixing of fiber reinforced acrylic roofing sheets 3mm thick, of light blue / white shade & of approved brand to match with AC/Aluminium zinc alloy coated metallic roofing sheet corrugated sheets including cost of all materials such as Rs.' bolts, nuts, washers etc., and fixing at all heights of the factory blocks etc. complete as directed by Engineer-in-charge.	300.00	Sq.M	1,302.00	3,90,600.00
7a	Fabrication of structural steel work 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 etc. complete as directed by Engineer-in-charge. **	10.00	MT	7,563.80	75,638.00
b	Erection of Steel work out lined in item No.7a above including the charges for handling, leading and stacking at site at approved locations prior to erection including all site riveting, bolting, jointing and site welding where ever required etc. complete as directed by Engineer-in-charge.	10.00	MT	3,241.60	32,416.00

S. No.	Description of the item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
c	Painting at site of all structural steel work with 2 coats of aluminium paint / synthetic enamel paint of approved shade to trusses, columns, girders, bracings etc., with aluminium paint or synthetic enamel paint as required etc., complete. The required paint only will be issued free of cost by B.H.E.L at their stores etc. complete as directed by Engineer-in-charge.	10.00	MT	596.50	5,965.00
8	Dismantling steel work in built up sections in angles tees, flats and channels including all gusset plates, bolts, cutting rivets, welding etc., including dismembering and stacking within 50 meters lead etc. complete as directed by Engineer-in-charge.	10.00	MT	890.11	8,901.10
	Total			Rs.	49,21,338.40
	Add increase in Vat 1% over the material cost (70% of Above value)			Rs.	34,449.37
	Total value of work			Rs.	49,55,787.77
Total : Rs. Forty nine lakhs fifty five thousand seven hundred eighty seven and seventy save paise only					

Note: **Structural steel/MS reinforcement steel, colour galvalume sheets only will be issue by BHEL on free of cost at their stores.	
1	All safety precautions shall be taken by the contractor for works above 2m height. Work permission has to be obtained from Executive incharge of BHEL before proceeding with the work at above 2 m height.
2	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% value of the contract value executed.
3	Service tax, which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents
4	The rates are inclusive of all taxes and duties.

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		

Name of the Contractor :

Signature of the Contractor