



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

SCHEDULE- A

Tender Notice No:

HY/FCD/OT-08/16-17, Dt: 22.07.2016

PRICE BID

Item no.: 2

Name of work:- Replacement of roof trusses & providing roof sheeting and painting works in 08 block.

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
1	Removal Existing roof/side cladding of AC Sheets roofing , louvers side cladding including loading, carting, unloading etc., with in the premises up to a lead of 2 km as directed etc. complete all as directed by Engineer-in-charge.	3,927.00	Sqm	39.83	1,56,412.41
2	Dismantling steel work 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 height of 16.00 m-20mts. If required the agency has to engage crane at his own cost for dismantling of structural steel at height of 16mtrs to 20mtrs in confining area etc. complete all as directed by Engineer-in-charge.	164.00	MT	4,366.80	7,16,155.20
3	Removing of existing North light glazing including loading, carting, unloading etc.; within the premises up to a lead of 2.00 KM as directed etc. complete all as directed by Engineer-in-charge.	990.00	Sqm	39.83	39,431.70
4	Supply & Fixing of high performance industrial roof vents Turbo Ventilators of 600mm dia made of aluminium alloy, designed to meet AS-2428.1.1993 to wind speed of 200 Km/Hr,dia 600mm 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 corrugated 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) etc. complete all as directed by Engineer-in-charge.	60.00	Each	6,000.00	3,60,000.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
5	<p>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 1 coats of zinc primer or equivalent suitable to epoxy paint before erection etc., complete. The rate shall include painting 1 coat of zinc primer or equivalent suitable to epoxy paint as per IS specifications and all charges for handling, leading and loading at the fabrication yard.</p> <p>Work has to be carried out at a height of 16.00 m to 20.00m. BHEL will give a single line drawings pertaining to roof trusses, bracings, lattices etc. The agency has to submit the detail working fabrication drawing for approval before taking up the work etc. complete all as directed by Engineer-in-charge.</p> <p>The raw structural steel sections, electrodes, gasses will be issued by BHEL on FREE of cost at BHEL stores.</p>	217.40	MT	8,871.00	19,28,555.40
6	<p>Erection of Steel work out lined 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.</p> <p>Work has to be carried out at a height of 16.00 m to 20.00m. The required cranes for erection of trusses is to be under contractor scope etc. complete all as directed by Engineer-in-charge.</p>	217.40	MT	5,052.00	10,98,304.80
7	<p>Painting at site of all structural steel work with 2 coats of Epoxy paint after 1 coat of zinc primer or equivalent suitable to epoxy paint of approved shade to trusses, columns, girders, bracings etc., with Epoxy paint/Synthetic enamel as required etc., complete 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. Work has to be carried out at a height of 16.00 m to 20.00m etc. complete all as directed by Engineer-in-charge.</p>	457.00	MT	696.00	3,18,072.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
8	Supplying and fixing plain PVC pipe of 160 mm dia 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 etc. complete all as directed by Engineer-in-charge.	603.90	RM	598.80	3,61,615.32
9	Supplying and fixing of Fibre Reinforced acrylic roofing sheets 3mm thick 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 all as directed by Engineer-in-charge.	196.35	Sq.M	1,302.00	2,55,647.70
10	Providing & Fixing of non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS: 14871) Roofing, North light curves, Flashings, Ridges and other specials suitable to the sheeting works etc. up to any pitch and fixing with polymer coated J, or L hooks & bolts including cutting sheets to size and shape wherever required. The profile should match with the existing roof sheeting and as approved by Engineer-in-charge and all related parameters is to be matched is as per IS 14871. The test certificate pertaining to for breaking load test is to be submitted by the agency from the reputed lab for approval and also all other test and pitch and height of corrugation physical characteristics is as per IS 14871 etc. complete all as directed by Engineer-in-charge. The work is to be carried out above 20 m height etc. complete all as directed by Engineer-in-charge. Before quoting the agencies are advised to study the all parameters of the roof sheeting work in IS 14871.	4,814.70	Sq.M	375.75	18,09,123.53
11	Supply and fixing of 5 mm thick Multi wall polycarbonate sheets and anodised aluminium glazing bars together with complete accessories for North light glazing of factory clocks including cost of all materials labour etc. complete all as directed by Engineer-in-charge.	1,336.50	Sq.M	1,207.50	16,13,823.75
12	Supply & Fixing of 0.5 mm thick colour sheet flashings hood / ridges/ triangular portion closers to require shape to suit site requirement with self threaded screws etc. complete all as directed by Engineer-in-charge.	267.89	Sq.M	900.00	2,41,101.00

S. No.	Description of the item	Qty	Unit	Rate (₹)	Amount (₹)
13	Cleaning, removing rust with grinders, 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 etc. complete all as directed by Engineer-in-charge.	50.00	Sq.M	1,390.84	69,542.00
Total Value of work				₹	89,67,784.81

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, Krishi Kalyan Cess which is extra as per service tax norms will be paid by BHEL to the agency after submission of necessary documents.
3	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.
4	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
5	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
6	The maintenance period of the work is 12 months . The security deposit will be released after satisfactory completion of the work and after getting I.R clearance and payment of final bill.
7	The agency has to produce medical fitness certificate from Government doctor for his workman for suitability of workers to work on heights.
8	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW=₹ 494.80, SSW=₹ 546.15, SW = ₹ 596.96 + ESI + PF + PPE's and other statutory if any.
9	The agency has to bring police clearance certificate before engaging on work.

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		