

BHARAT HEAVY ELECTRICALS LIMITED**BOILER AUXILIARIES PLANT****RANIPET - 632 406**

NAME OF WORK: Replacing of old aged A.C sheets with new Zincalume color coated sheets in side cladding in all shops & M.P Shop roof area inside Factory premises.

| SL. NO | DESCRIPTION OF WORK | QTY | UNIT | RATE Rs.P | AMOUNT |
|---------------|--|------------|-------------|------------------|---------------|
| 1a | Supply of colour coated (Blue) (at factory roll-formed profile sheet) Clip-on-concealed fixing system profile for roof sheeting with sufficient stiffeners for strength to withstand 75kg.sqm LL and 150kg/sqm wind load for a purlin spacing of 1.4M.The base metal thickness (BMT) should be 0.42 nominal high strength steel with min 550 MPa yield strength ,metallic hot dip coated with aluminium-zinc alloy Zincalume AZ 150 (Min. 150gms/sq.mt total on both sides) with polyester paint coat 5 micron coat on both surfaces and 20 micron exterior coat on top surfaces and 5 micron reverse coat. The steel manufactureres test certificate for chemical and mechanical properties of steel must be submitted for approval prior to installation.The sheet shall have brand marking of the manufacturer giving product details on the back of the sheet at every 1meter c/c for confirming genuinity of the material. Concealed fixing hooks shall be supplied as per drawing requirements and the fixing arrangement should have enough strength to take the loads indicated earlier in the specification for sheets. | 8200.00 | SQM | | |
| | Fasteners & Clip should be of approved material. The measurement shall be based on actual laid area. Length of sheet will be approximately 12 M. (The profile shall match with our existing roofing sheet of Tata BlueScope clipon) | | | | |
| 1b | Same as above but for supply of North light curves upto 1220 mm Girth without clips including providing extra sub purlins wherever required to suit the curved sheet over the laid sheet/ in existing structure. The measurement shall be based on actual laid length. | 560.00 | RM | | |

| SL. NO | DESCRIPTION OF WORK | QTY | UNIT | RATE Rs.P | AMOUNT |
|--------|---|----------|------|-----------|--------|
| 2a | Labour charges for carrying from stores and fixing of Zinc alume sheets in the existing AC sheet roof areas and fixing should be done as per standard procedure formulated by the manufature.The rate shall be included cost of fixing arragement, all labour charges ,incidental charges ,screws blots & nuts,fasteners etc., loading, leading, placing & fixing in position , scaffolding charges, hire and running charges for tools and plants. The measurement shall be based on actual laid area. | 8200.00 | SQM | | |
| 2b | Labour charges for carrying from stores and fixing of Zinalume north light curve sheets in the existing AC sheet roof areas and fixing should be done as per standard procedure formulated by the manufature including drilling holes etc in the exisiting purlins for the fixing of clips to purlins etc., and providing sub purlins extra if necessary to suit the existing structure .The rate shall be included cost of fixing arrangemnt , extra purlins all labour charges ,incidental charges ,screws blots & nuts, fasteners etc., loading ,leading, placing & fixing in position ,scaffolding charges, hire and running charges for tools and plants.The measurement shall be based on actual laid length. | 560.00 | RM | | |
| 3a | Providing & fixing UV stabilished fiberglass (Translucent) reinforced plastic sheet roofing up to any pitch including fixing in position .They shall be uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be translucent, textured or smoothg as specified. And should be fixed additionallly with beadmastic tape of approved quality with the adjoining Zinalume sheets to avoid any leakage.The measurement shall be based on actual laid area. 1.5 mm thick matching profile as specified. (Note 5% of Roof area to be provided). (The profile shall match with our existing roofing sheet) | 410.00 | SQM | | |
| 4a | Removing carefully the exisiting A.C sheets in the shop roofings and side cladding sheets ,Louvers etc., lowering to G.L ,loading, leading & unloading to BHEL stores and stacking the material properly within a lead of 1.00 KM. Payment will be made based on laid area of roof. | 25000.00 | SQM | | |

| SL. NO | DESCRIPTION OF WORK | QTY | UNIT | RATE Rs.P | AMOUNT |
|--------|---|----------|-------|-----------|--------|
| 4b | Removing carefully the existing A.C sheets North Light curves in shop roofings, lowering to G.L ,loading ,leading & unloading to BHEL stores and stacking the material properly within a lead of 1.00 KM. Payment will be made based on laid Length of North Light curve. | 560.00 | RM | | |
| 5a | Supply of Wall Cladding Colorbond Trapezoidal TRIMDEK or equivalent profile sheet of 1015 mm effective cover width & nominal 28.5 mm deep ribs with subtle square fluting in the five plan at nominal 203 mm centre - to- centre.The end rib will be designed for anti- capillary action ,to avoid any seepage of water through the lateral overlap .The feed material is manufactured out of nominal 0.5mm total coated thickness (TCT) and Base Metal Thickness will be 0.45 mm (BMT),Hi-tensile steel with in min 550Mpa yield strength, metallic hot dip coated with aluminium -zinc alloy (55% aluminium,45% zinc) as per AS 1397- Zinalume AZ 150 (Min150 gms/sq.mt total on both sides) with polyester Colorbond XRW quality quality paint .The paint will have a total coating thickness of nominal 35micro meter ,comprising of nominal 20micro metre exterior coat on top surface & nominal 5 micro metre reverse coat on back surface over nominal 5 micro metre primer coat on both surfaces of approved colour shade by concern authority. | | | | |
| | The sheet will have brand marking of the manufacturer giving product details on the back of the sheet at every 1 meter c/c for conforming genuity of the material.The measurement shall be based on actual laid area. | 16800.00 | SQM | | |
| 5b | Labour charges for carrying from stores and fixing of Zinalume sheets in the existing AC sheet side cladding areas and fixing should be done as per standard procedure formulated by the manufacture. The rate shall be included cost of fixing arrangement, all labour charges ,incidental charges ,screws bolts & nuts,fasteners etc., loading, leading, placing & fixing in position , scaffolding charges, hire and running charges for tools and plants.The measurement shall be based on actual laid area. | 16800.00 | SQM | | |
| | | | Total | Rs | |
| | Rupees in words | | | | |

| SL. NO | DESCRIPTION OF WORK | QTY | UNIT | RATE Rs.P | AMOUNT |
|---------------------------------------|---|-----|------|-----------|--------|
| SPECIAL CONDITIONS OF CONTRACT | | | | | |
| 1 | Tenderers are requested to visit the site and verify themselves about the actual site conditions to know about the site facilities, distances and assess the site condition before quoting for the job. No compensation for not aquiting themselves with the actual site conditions will be entertained at the later stage. | | | | |
| 2 | Tenderers are requested to take transit insurance for the material to be supplied at site at their own cost. | | | | |
| 3 | The tenderer shall use safety net under neath the AC sheets in order to prevent falling of any materials and safety to the workmen & safety for the shop floor working wormen . Special care to be taken to complete the work without any interference to shop working environment. Nylon double sheathed safety nut should br used at the bottom of roof truss to ensure safe operation of EOT CRANES. | | | | |
| 4 | The tenderer shall quote inclusive of PF & ESI contribution to their workers. | | | | |
| 5 | Power and water will be available free of charges from the nearest tapping point .The contractor should make necessary arrangement for tapping the same. (For erection purpose only) | | | | |
| 5a | BHEL will not give either Power or Crane etc., for " on Site Roll forming". | | | | |
| 6 | Safety precautions should be taken while doing the work for working at height. | | | | |
| 7 | Rate quoted shall be firm throughout the contract period and include all royalties, terminal taxes, central or provincial excise tax, sales tax, tax on works contract and any other taxes leviabale under the State or Central Government Rules. The rates are to be quoted exclusive of service Tax. You will have to submit the Service Tax Registration Certificate to BHEL . You will have to claim the Service Tax from BHEL by sumitting Tax invoice as per the Rules and Regulations of Service Tax and the documentary evidence will have to be submitted along with the next bill. If for any reason , tenderer has to pay penalty ,interest on service tax, the tenderer has to bear such additional payment. BHEL will pay only the Service Tax at actual. The Bharat Heavy Electricals Limited will not entertain any claim in this regard. | | | | |
| 8 | All materials shall confirm to the latest IS/International specifications | | | | |
| 9 | Once the work is completed the contractor should remove all the unwanted materials from the site time to time and it should be dispossed off as per the instructions of Engineer-in-charge without any further delay. | | | | |
| 10 | All the rates are inclusive of scaffolding charges ,sundries & contingencies ,carriage of materials etc., complete. | | | | |
| 11 | All works shall be carried out as per standard specifications and instructions of Engineer-in-charge. | | | | |
| 12 | The General conditions of contract in force shall apply to this contract. | | | | |
| 13 | Total Completion period shall be Nine Months and the Supply of Materials shall be completed within Three Months. | | | | |
| 14 | Since TIME is essance of the contract, LD is applicable as per the General Conditions of contract. | | | | |