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Dear Sir(s),

Sub: **Maintenance of steel structures in factory for the years 2009 – 10 & 2010 – 11** - Reg.

Ref: Tender Notice No .BAP: CF: 46 / 2008 - 09 Dt 04.03.2009 .

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We herewith enclose the document for the above work. You are required to submit most competitive offer in a sealed cover so as to reach the office of Sr DGM (Civil Projects & Services) before 15.00 Hrs. **The tender shall be opened at 15.00 Hrs. on the same day.**

|              |                                                                                           |                 |                   |                    |                        |
|--------------|-------------------------------------------------------------------------------------------|-----------------|-------------------|--------------------|------------------------|
| Name of work | <b>Maintenance of steel structures in factory for the years 2009 – 10 &amp; 2010 – 11</b> |                 |                   |                    |                        |
| EMD amount   | <b>Rs 60,000.00</b>                                                                       | Date of Opening | <b>21.03.2009</b> | Period of Contract | <b>Upto March 2011</b> |

**THE SUCCESSFUL TENDERER IS REQUIRED TO START THE WORK IMMEDIATELY AND COMPLETE THE WORK WITHIN THE STIPULATED TIME. UNDER ANY CIRCUMSTANCES NO EXTENSION OF TIME WILL BE GRANTED. ANY DELAY BEYOND THE DUE DATE OF COMPLETION WILL BE SUBJECTED TO LIQUIDATED DAMAGES.**

- **The successful tenderer has to remit Security Deposit as mentioned in the Page –2.**
- The tenderer may visit the site and assess location before quoting the rates.
- We hope to receive your offer on the due date of opening and in case you are not interested to quote, then you please state the reasons and return back the documents.
- Increasing the rates subsequent to opening of tender is not admissible and the tender is liable for cancellation / forfeiture of EMD if any. The rates quoted in the tender shall remain valid for a period of Three Months from the date of opening the tender.
- 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 leviable under the State or Central Government Rules. The Bharat Heavy Electricals Limited will not entertain any claim in this regard. Service tax if any shall be reimbursed to you on production of documentary evidences.
- No deviations to the tender conditions will normally be accepted.

Thanking you,

Yours faithfully,

For and on behalf of BHEL,

(V.RAJENDRAN)

DY Manager (Civil Project & Services)

(Contd.....2)

**Earnest Money Deposit : (Clause 8.1)**

- (i) The Earnest Money Deposit for the above work is given in the above column and will be accepted as CASH (at BHEL Cash Office, Ranipet – 6) (as permissible under Income tax Act) or PAY ORDER or DEMAND DRAFT drawn in favour of, BHEL / RANIPET – 6 payable at SBI / BHEL Project, Mukundarapuram (Bank Code No : 7013).
- (ii) The EMD will be refunded to unsuccessful tenderers within 15 days of acceptance of award of work by the successful tenderer.
- (iii) For successful Tender, the EMD shall be converted / adjusted against the Security Deposit.
- (iv) The EMD shall not carry any interest
- (v) Without EMD, your tender will not be considered.

**Security Deposit : (Clause 8.2)**

- (i) The rate of security deposit will be as below (w.r.t. Total contract value):
- Up to Rs 10 lakhs : **10%**
  - Above Rs 10 Lakhs Up to Rs 50 lakhs : **Rs 1 Lakh + 7.50% of the amount exceeding Rs 10 Lakhs**
  - Above Rs 50 Lakhs : **Rs 4 lakhs + 5.00% of the amount exceeding Rs 50 Lakhs**
- (ii) 50% of SD should be deposited before start of the work. Balance SD will be recovered at the rate of 10% from running bills. Anyhow the contract value not exceeding Rs 10 Lakhs can be started before SD is collected, provided the payment can be released only after collection / recovery of initial 50% SD.
- (iii) The SD shall not carry any interest.
- (iv) SD may be furnished in any one of the following forms :
- Cash (as permissible under Income tax Act)
  - Pay order or Demand draft drawn in favour of, BHEL / RANIPET – 6 payable at SBI / BHEL Project, Mukundarapuram (Bank Code No : 7013).
  - Local cheques of scheduled banks, subject to realization.
  - Securities available from post offices such as National Savings Certificates, Kisan Vikas patras etc., (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back)
  - Bank guarantee from scheduled banks / Public financial institutions as defined in the Companies act. The Bank guarantee format should have the approval of BHEL.
  - Fixed Deposit Receipt issued by scheduled banks / Public financial institutions as defined in the Companies act. The FDR should be in the name of the contractor, A/c BHEL, duly discharged on the back.
- (v) Refund of SD : 50% of SD may be refunded to the contractor in respect of all contract on satisfactory completion of work and after payment of final bill and the balance 50% on expiry of the maintenance period, provided that the contractor shall have rendered a “ No Demand” certificate. In case of work where maintenance period is not involved 100% of the SD may be refunded after payment or final bill provided that the contractor shall have rendered a “ No Demand” certificate.

**Electronic Fund Transfer (EFT Form) : (as per CVC guide lines)**

- The enclosed EFT form should be duly filled and submitted along with tender documents. Without EFT form your tender will not be considered and will be rejected.
- **Suppose if you already submitted the EFT form to BHEL, Ranipet this may be ignored.**

(Contd.....3)

**Taxes etc., :**

- All taxes, duties, levies that are payable to the Central / State Governments or to any other authorities in respect of the works under the contractor at the time of contract or becomes payable in future shall be exclusively borne by the contractor and the BHEL is not liable for any reimbursement / payment thereof.
- **The rates are to be quoted exclusive of service Tax. The service tax if any to be claimed separately by submitting necessary documents as mentioned in the Service Tax Act. BHEL will pay the service tax at actual excluding penalties and interest if any.**

**Advance payment :**

- No advance payment shall be paid to the contractor.
- **For payment, M Book system shall be adopted as per the norms of the company**

**General :**

- The envelop / cover containing duly filled in tender documents along with necessary enclosures should neatly be indicated the following :
  - a. Name of work : To be mentioned in the left hand side top corner of the envelop in first line.
  - b. Tender Notice No : To be mentioned in the left hand top corner of the envelop in second line.
  - c. To be addressed to : **Sri V.Rajendran, - To be mentioned in the right side  
Deputy Manager, middle or bottom of the envelop  
Civil Projects & Services,  
BHEL / BAP / Ranipet – 632 406.  
Vellore Dist., / Tamil Nadu.**
  - d. From / self address : To be mentioned in the left hand side bottom corner of the envelop.

**Encl: (i) Bill of Quantities**

### SPECIAL CONDITIONS OF CONTRACT

- 1 The tenderer shall quote a percentage above or below or at par, the rates shown in the Bill of Quantities based on CPWD DSR 2007. The percentage quoted shall be clearly written both in words and figures.
- 2 The quoted percentage will apply to the individual items uniformly .
- 3 The above rates does not include PF & ESI remittance .The tenderer shall quote inclusive of PF & ESI contribution to their workers.
- 4 Items of work other than those mentioned in Bill of Quantities will have to be carried out at the rates to be fixed by this organisation .The same offered percentage will be applicable with reference to CPWD DSR 2007.
- 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.
- 6 Safety precautions should be taken while doing the work. . You will have to follow all safety requirements to carry out the work inside the factory premises.
- 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 leviable under the State or Central Government Rules.**The rate to exclude service tax if any** .The Bharat Heavy Electricals Limited will not entertain any claim in this regard
- 7a **The rates are to be quoted exclusive of service Tax if any. You will have to submit the Service Tax Registration Certificate to BHEL . You will have to remit the service tax if any and claim reimbursement from BHEL as per contract condition on production of necessary documents . 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 .**
- 8 All materials shall confirm to the latest IS/IRC specifications
- 9 All the works to be carriedout strictly as per the specifications laid down in Tamil Nadu Building practice and also satisfying relevant IS/IRC specifications.
- 10 Cement, Reinforcement steel, Structural steel and AC sheet will be issued at free of cost.
- 10a Cement and Reinforcement steel will be issued free of cost for theoretical consumption and at a recovery rate of Rs. 5,980.00 / MT and Rs. 58,685.00 / MT respectively. Structural steel and AC sheets will also be issued free of cost for theoretical consumption and at a recovery rate of Rs. 63,710.00 / MT and Rs. 155.00 / Sqm respectively. Upto 5% over and above the theoretical consumption beyond which penal recovery will be effected at the double the rates specified above.

(Contd.....5)

- 11 Once the work is completed the contractor should remove all the unwanted materials from the site time to time and it should be disposed off as per the instructions of Engineer-in-charge without any further delay.
- 12 All the rates are inclusive of scaffolding charges ,sundries & contingencies , carriage of materials ,cost of brush ,sand paper, ladder, gum, putty, turpentine, caustic soda or washing soda, mixing charges etc., complete.
- 13 All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
- 14 Base preparation, mixing ratio,etc. shall be as per the recommendations of the manufacturer.
- 15 All materials, colour, shade,brand, etc. shall be got approved from the Engineer-in-charge before the start of the work and shall confirm to the latest IS/IRC specifications..
- 16 The current minimum wages per day for USW is Rs.136.30/-
- 17 Coefficient of consumption for paint, distemper, cement, etc. shall be as per CPWD 2007 data.
- 18 The contractor have to follow all statutory requirements like PF ,ESI etc.,through out the contract period.
- 19 The General conditions of contract in force shall apply to this contract.
- 20 The contracator is required to engage a Degree & Diploma holder Engineer through out the contract period.
- 21 Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.
- 22 The tenderer may visit the site and assess location before quoting the rate.

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

ESTIMATE REF NO : CF/RB/61

NAME OF WORK : MAINTENANCE OF STEEL STRUCTURES IN FACTORY FOR 2009-10 &amp; 2010-11

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                          | QTY | UNIT | RATE<br>RS<br>P | AMOUNT<br>RS<br>P |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------------|-------------------|
| 10.1             | 01   | STRUCTURAL STEEL WORK IN SINGLE SECTION FIXED WITH OR WITHOUT CONNECTING PLATE INCLUDING CUTTING, HOISTING, FIXING IN POSITION AND APPLYING A PRIMING COAT OF APPROVED STEEL PRIMER ALL COMPLETE. (STRUCTURAL STEEL WILL BE ISSUED AT FREE OF COST AT BHEL STORES)                                                                                                                                                                                   |     | KG   | 6.50            | .00               |
| 10.2             | 02   | STRUCTURAL STEEL WORK RIVETED ,BOLTED OR WELDED IN BUILT UP SECTIONS, TRUSSES AND FRAMED WORK INCLUDING CUTTING, HOISTING, FIXING IN POSITION AND APPLYING A PRIMING COAT OF APPROVED STEEL PRIMER ALL COMPLETE. (STRUCTURAL STEEL WILL BE ISSUED AT FREE OF COST AT BHEL STORES)                                                                                                                                                                    |     | KG   | 10.70           | .00               |
| DATA             | 02A  | Same as above item No 02 but for fabrication of Structural Steel only without erection in position of fabricated items.                                                                                                                                                                                                                                                                                                                              |     | KG   | 7.85            | .00               |
| DATA             | 02B  | Same as item No 02 but for erection of fabricated structural steel items in position and excluding cost of fabrication.                                                                                                                                                                                                                                                                                                                              |     | KG   | 2.85            | .00               |
| DATA             | 03   | CARRYING FROM STACKS AT ERECTION SITE TO ERECTION POSITION AND ERECTION OF FABRICATED STEEL WORK INCLUDING ALL HANDLING, CONVEYING, LEADING, ASSEMBLING,HOISTING AND ERECTION IN POSITION AND SITE WELDING AND OR BOLTING WHEREVER REQUIRED AND ALIGNMENT OF THE STRUCTURE AS PER DRAWING AND SPECIFICATION. RATE TO BE ALL INCLUSIVE SUCH AS BOLTS AND NUTS, WELDING, TOOLS AND PLANTS, LABOUR CHARGES ETC EXCLUDING COST OF FABRICATED COMPONENTS. |     | M.T  | 2850.00         | .00               |
| 15.28.2          | 04A  | DISMANTLING ROOFING INCLUDING RIDGES, HIPS VALLEYS AND GUTTERS ETC., AND STACKING THE MATERIAL WITHIN A LEAD OF 50 M<br>ASBESTOS SHEET                                                                                                                                                                                                                                                                                                               |     | SQM  | 11.75           | .00               |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

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NAME OF WORK : MAINTENANCE OF STEEL STRUCTURES IN FACTORY FOR 2009-10 &amp; 2010-11

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                             | QTY | UNIT | RATE   |   | AMOUNT |     |
|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------|---|--------|-----|
|                  |      |                                                                                                                                                                                                                                                                                                         |     |      | RS     | P | RS     | P   |
| 15.28.1          | 04B  | FRP SHEETS 3MM THICK                                                                                                                                                                                                                                                                                    |     | SQM  | 24.70  |   |        | .00 |
| 15.28.1          | 04C  | G.C. SHEETS                                                                                                                                                                                                                                                                                             |     | SQM  | 24.70  |   |        | .00 |
| 10.22            | 05   | WELDING BY GAS OR ELECTRIC PLANT INCLUDING TRANSPORTATION OF PLANT AT SITE ETC., COMPLETE                                                                                                                                                                                                               |     | CM/L | 1.45   |   |        | .00 |
| 12.8 DATA        | 06A  | PROVIDING ASBESTOS CEMENT 6 MM THICK CORRUGATED SHEETS ROOFING AND FIXING WITH G.I. J OR L HOOKS, BOLTS AND NUTS 8 MM DIA. G.I. PLAIN AND BITUMEN WASHERS COMPLETE EXCLUDING THE COST OF PURLINS, RAFTERS AND TRUSSES, CORRUGATED SHEETS (A.C.MATERIAL WILL BE SUPPLIED AT FREE OF COST AT BHEL STORES) |     | SQM  | 59.20  |   |        | .00 |
| 12.12.1 DAT      | 07A  | PROVIDING AND FIXING RIDGES AND HIPS IN ASBESTOS CEMENT SHEET ROOFING. (A.C.MATERIAL WILL BE SUPPLIED AT FREE OF COST AT BHEL STORES) CORRUGATED SERRATED ADJUSTABLE RIDGES                                                                                                                             |     | RM   | 63.05  |   |        | .00 |
| 12.12.2 DAT      | 07B  | PLAIN WING ADJUSTABLE RIDGES                                                                                                                                                                                                                                                                            |     | RM   | 66.50  |   |        | .00 |
| 12.12.3 DAT      | 07C  | CLOSE FITTING ADJUSTABLE RIDGES                                                                                                                                                                                                                                                                         |     | RM   | 115.30 |   |        | .00 |
| 12.12.4 DAT      | 07D  | UNSERRATED ADJUSTABLE HIPS                                                                                                                                                                                                                                                                              |     | RM   | 67.85  |   |        | .00 |
| 12.13.1 DAT      | 08A  | PROVIDING AND FIXING ASBESTOS CEMENT ROOFING ACCESSORIES WITH J OR L HOOKS, BOLTS AND NUTS AND OR G.I. SEAM BOLTS AND NUTS, G.I. PLAIN AND BITUMEN WASHERS COMPLETE. (A.C.MATERIAL WILL BE SUPPLIED AT FREE OF COST AT BHEL STORES) CORRUGATED APRON PIECES                                             |     | RM   | 35.15  |   |        | .00 |
| 12.13.2 DAT      | 08B  | EAVE'S FILLER PIECES                                                                                                                                                                                                                                                                                    |     | RM   | 15.00  |   |        | .00 |
| 12.13.3 DAT      | 08C  | NORTH LIGHT CURVES                                                                                                                                                                                                                                                                                      |     | RM   | 41.55  |   |        | .00 |
| 12.13.4 DAT      | 08D  | VENTILATOR CURVES                                                                                                                                                                                                                                                                                       |     | RM   | 46.90  |   |        | .00 |

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ESTIMATE REF NO : CF/RB/61

NAME OF WORK : MAINTENANCE OF STEEL STRUCTURES IN FACTORY FOR 2009-10 &amp; 2010-11

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                               | QTY | UNIT | RATE    |   | AMOUNT |     |
|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|---------|---|--------|-----|
|                  |      |                                                                                                                                                                                                                           |     |      | RS      | P | RS     | P   |
| 12.13.5 DAT      | 08E  | BARGE BOARDS                                                                                                                                                                                                              |     | RM   | 91.50   |   |        | .00 |
| 12.13.6 DAT      | 08F  | RIDGE FINALS                                                                                                                                                                                                              |     | PAIR | 18.40   |   |        | .00 |
| 12.13.7 DAT      | 08G  | SPECIAL NORTH LIGHT CURVES                                                                                                                                                                                                |     | EACH | 45.80   |   |        | .00 |
| 12.13.8 DAT      | 08H  | S TYPE LOUVERS                                                                                                                                                                                                            |     | RM   | 14.35   |   |        | .00 |
| 12.14            | 09   | PROVIDING FLAT IRON BRACKETS 50X3 MM SIZE WITH NECESSARY BOLTS, NUTS AND WASHERS ETC. FOR FIXING ASBESTOS CEMENT/G.S.SHEETS GUTTERS WITH PURLINS.                                                                         |     | RM   | 22.45   |   |        | .00 |
| 13.50.3          | 10A  | APPLYING PRIMING COAT:<br>WITH READY MIXED RED OXIDE ZINC CHROMATE PRIMER OF APPROVED BRAND AND MANUFACTURE ON STEEL GALVANISED IRON/STEEL WORKS.                                                                         |     | SQM  | 12.65   |   |        | .00 |
| 13.50.4          | 10B  | WITH READY MIXED RED OXIDE ZINC CHROMATE PRIMER OF APPROVED BRAND AND MANUFACTURE ON STEEL WORK (SECOND COAT).                                                                                                            |     | SQM  | 7.15    |   |        | .00 |
| 13.61.1          | 11   | PAINTING TWO COATS ON NEW WORK WITH SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE TO GIVEN AN EVEN SHADE.                                                                                                      |     | SQM  | 33.25   |   |        | .00 |
| 13.61.1 DAT      | 11A  | PAINTING TWO COATS ON NEW WORK WITH SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE TO GIVEN AN EVEN SHADE.                                                                                                      |     | MT   | 868.80  |   |        | .00 |
| 13.62.1 DAT      | 12   | PAINTING TWO COATS ON NEW WORK OVER AN UNDER COAT OF SUITABLE SHADE WITH ORDINARY PAINT OF APPROVED BRAND AND MANUFACTURE, PAINTING WITH SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE TO GIVEN AN EVEN SHADE. |     | MT   | 1340.45 |   |        | .00 |
| 13.63.1 DAT      | 13   | PAINTING TWO COATS ON NEW WORK WITH ALUMINIUM PAINT OF APPROVED BRAND AND MANUFACTURE TO GIVE AN EVEN SHADE.                                                                                                              |     | MT   | 774.30  |   |        | .00 |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

ESTIMATE REF NO : CF/RB/61

NAME OF WORK : MAINTENANCE OF STEEL STRUCTURES IN FACTORY FOR 2009-10 &amp; 2010-11

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                      | QTY | UNIT | RATE<br>RS<br>P | AMOUNT<br>RS<br>P |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------------|-------------------|
| 14.54.1 DAT      | 14   | PAINTING ONE COAT ON OLD WORK WITH SYNTHETIC ENAMEL PAINT OF APPROVED BRAND AND MANUFACTURE OF REQUIRED COLOUR TO GIVE AN EVEN SHADE.                                                                                                                                                                                                                            |     | MT   | 597.05          | .00               |
| 14.55.1 DAT      | 15   | PAINTING ONE COAT ON OLD WORK WITH ALUMINIUM PAINT OF APPROVED BRAND AND MANUFACTURE TO GIVE AN EVEN SHADE.                                                                                                                                                                                                                                                      |     | MT   | 476.85          | .00               |
| 15.18            | 16   | DISMANTLING STEEL WORK IN BUILT UP SECTIONS IN ANGLES, TEES, FLATS AND CHANNELS INCLUDING ALL GUSSET PLATES, BOLTS, NUTS, CUTTING RIVELS, WELDING, ETC. INCLUDING DISMEMBERING AND STACKING WITHIN 50 M LEAD.                                                                                                                                                    |     | KG   | 0.85            | .00               |
| AGT11/01-02      | 17   | CLEANING AND REMOVING ALL FOREIGN MATERIALS AND DEBRIS DEPOSITED IN THE RAIN WATER GUTTERS PROVIDED IN SHOPS WHENEVER REQUIRED AND DISPOSING THEM AT THE SPECIFIED PLACES AS INSTRUCTED BY THE ENGINEER-IN-CHARGE.                                                                                                                                               |     | RM   | 2.20            | .00               |
| AGT11/01-02      | 18   | CLEANING THE CATCH PITS AND DISPOSING ALL FOREIGN MATERIALS AT THE SPECIFIED PLACES AS INSTRUCTED BY THE ENGINEER-IN-CHARGE.                                                                                                                                                                                                                                     |     | EACH | 27.10           | .00               |
| AGT11/01-02      | 19   | CLEANING OF MANHOLES AND CHAMBERS AND DISPOSING ALL FOREIGN MATERIALS AT THE SPECIFIED PLACES AS INSTRUCTED BY THE ENGINEER-IN-CHARGE.                                                                                                                                                                                                                           |     | EACH | 23.00           | .00               |
| AGT11/01-02      | 20   | CARRYING FROM STORES TO SITE OF WORK SIZING, BENDING TO THE REQUIRED SHAPE AND DIMENSION AND FIXING OF GI SHEETS FOR FLASHING. RATE TO INCLUDE FIXING OF GI SHEET WITH ALL ACCESSORIES IN PROPER LINE, LEVEL, ETC. INCLUDING ALL LABOUR AND INCIDENTAL CHARGES, ETC. COMPLETE. GI SHEETS AT RANDOM LENGTH WILL BE SUPPLIED BY BHEL FREE OF COST, AT BHEL STORES. |     | SQM  | 188.60          | .00               |
| AGT11/01-02      | 21   | ARRESTING THE LEAKAGE IN AND AROUND THE 'L' OR 'J' BOLT JOINTS OF AC SHEETS AND AC SHEET CRACKS, ETC. WITH                                                                                                                                                                                                                                                       |     | KG   | 83.65           | .00               |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

ESTIMATE REF NO : CF/RB/61

NAME OF WORK : MAINTENANCE OF STEEL STRUCTURES IN FACTORY FOR 2009-10 &amp; 2010-11

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | QTY | UNIT | RATE |      | AMOUNT |     |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|------|--------|-----|
|                  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      | RS   | P    | RS     | P   |
|                  |      | APPLYING BITUMEN COMPOUND. RATE INCLUDES LABOUR CHARGES, COST OF BITUMEN COMPOUND, ETC. ALL AS PER THE INSTRUCTIONS OF ENGINEER-IN-CHARGE.                                                                                                                                                                                                                                                                                                                                         |     |      |      |      |        |     |
| AGT11/01-02      | 22   | PREVENTIVE MAINTENANCE OF EOT CRANE RAILS (ON EACH SIDE) OF PRODUCTION BAY BY MAINTAINING THE RAILS IN GOOD CONDITIONS SUITABLE FOR MOVEMENT OF CRANES AT ALL TIMES BY TIGHTENING BOLTS AND NUTS. CLEANING THE TRACKS REMOVING ALL FOREIGN MATERIALS LIKE DUST, IRON RUST, IRON CHIPS, OILS, ETC. COMPLETE. THE RATE IS INCLUSIVE OF ALL MATERIALS, EQUIPMENT AND LABOUR FOR THE ENTIRE WORK INCLUDING COB WEB REMOVAL IN THE CRANE, GANTRY AND AUXILIARY GIRDERS AND SURGELACING. |     | RM   |      | 4.55 |        | .00 |
| AGT11/01-02      | 23   | UPKEEPING THE EOT CRANE WALK WAY ON EACH BAY INCLUDING STAIRCASE BY MAINTAINING THE WALKWAYS OF STAIRCASE FOR MOVEMENT OF PERSON AT ALL TIMES BY CLEANING THE WALKWAY, REMOVING ALL FOREIGN MATERIALS LIKE COBWEB DUST, ETC. COMPLETE AND DISPOSING THE SAME AT THE SPECIFIED PLACES AS INSTRUCTED BY THE ENGINEER-IN-CHARGE.                                                                                                                                                      |     | RM   |      | 2.80 |        | .00 |
| AGT11/01-02      | 24   | CLEANING THE GAP BELOW THE RAIL (BOTH SIDES) AND THE GUIDE PLATE FIXED ON THE SHOP FLOORS AND DISPOSING THE MATERIALS AT THE SPECIFIED PLACES AS AND WHEN DIRECTED BY THE ENGINEER-IN-CHARGE.                                                                                                                                                                                                                                                                                      |     | RM   |      | 2.35 |        | .00 |
| AGT11/01-02      | 25   | LAYING/RECTIFYING THE EXISTING BARBED WIRE FENCING IN POSITION WITH PROPER TENSION AND ALIGNMENT BY MEANS OF PROVIDING NECESSARY HOOK BOLTS AND NUTS WITH WASHER, 16 GAUGE GI BINDING WIRES, ETC. COMPLETE. THE RATE INCLUDES CONVEYANCE OF BARBED WIRE FROM BHEL STORES TO SITE OF WORK.                                                                                                                                                                                          |     | RM   |      | 2.65 |        | .00 |

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NAME OF WORK : MAINTENANCE OF STEEL STRUCTURES IN FACTORY FOR 2009-10 &amp; 2010-11

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | QTY | UNIT | RATE   |   | AMOUNT |     |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------|---|--------|-----|
|                  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      | RS     | P | RS     | P   |
| AGT11/01-02      | 26   | CLEANING THE EXISTING RAIN WATER GUTTER JOINTS IN SHOP FLOOR, BY SCRAPING THE EXISTING FRP SEALANT/BITUMEN SEALANT AND CLEANING THE JOINT UPTO THE METAL SURFACE FREE FROM DUST AND RUST, FILLING THE GAP IN THE JOINT BY REPEATED LAYERS/FILLETS OF WELDING WITHOUT ANY LEAKAGE OF RAIN WATER. RATE TO BE ALL INCLUSIVE OF LABOUR CHARGES FOR CLEANING AND FOR REMOVING THE AC SHEETS, NL GLASS AND FIXING IT PROPERLY AFTER WELDING AND OTHER INCIDENTAL CHARGES, ETC. COMPLETE.                                                      |     | JOIN | 443.70 |   |        | .00 |
| 22.19.1          | 27   | PROVIDING AND LAYING APP (ATATIC POLYPROPYLENE POLYMER) MODIFIED PREFABRICATED FIVE LAYER 3MM THICK WATER PROOFING MEMBRANE, BLACK FINISHED REINFORCED WITH NON-WOVEN POLYSTER MATT MANUFACTURED BY BITUMAT CO.LTD., SOPREMA, GENERAL MEMBRANES OR TAMKO CONSISTING OF A COAT OF BITUMEN PRIMER FOR BITUMEN MEMBRANE @ 0.40 LTR/SQM BY THE SAME MEMBRANE MANUFACTURE OF DENSITY AT 25 DEGREE C ,0.87 - 0.89 KG/LTR AND VISCOCITY 70-160 CPS. OVER THE PRIMER COAT THE LAYER OF                                                          |     | SQM  | 295.80 |   |        | .00 |
| 12.1.1           | 28   | PROVIDING CORRUGATED G S SHEET ROOFING INCLUDING VERTICAL/CURVED SURFACE FIXED WITH POLYMER COATED J OR L HOOKS , BOLTS AND NUTS OF 8MM DIA. WITH BITUMEN AND GI LIMPET WASHERS OR WITH GI LIMPET WASHERS FILLED WITH WHITE LEAD AND INCLUDING A COAT OF APPROVED STEEL PRIMER AND TWO COATS OF APPROVED PAINT ON OVERLAPPING OF SHEETS COMPLETE (UP TO ANY PITCH IN HORIZONTAL/VERTICAL OR CURVED SURFACES ) EXCLUDING THE COST OF G.S SHEETS, PURLINS ,RAFTERS AND TRUSSES AND INCLUDING CUTTING TO SIZE AND SHAPE WHEREVER REQUIRED. |     | SQM  | 93.14  |   |        | .00 |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

