

**BHEL : BAP : RANIPET
CIVIL PROJECT AND SERVICES.**

I O M

BHE : BAP : CF & D :

January 7, 2010

Sri N.G.Ranganathadu, Sr Addl Engineer / Archives

Sub : Scanning of tender documents – Requested - Reg.

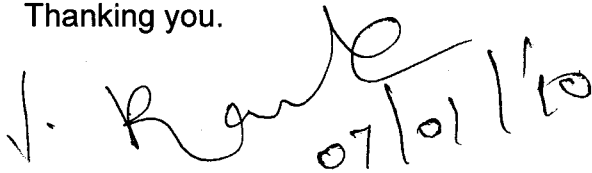
Ref : (i) Tender Notice No : BAP : CF : 42 / 2009 – 10 Dt 05.01.2010.
(ii) Name of work : Civil works for machine foundations in shop floor in
factory.

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Kindly scan the tender documents of 31 pages for the above mentioned work so as to upload in our BHEL web site at the earliest for tendering purpose.

The scanned copies may be forwarded thro e –mail to [vraj@bhelrpt.co.in](mailto:vraj@bhelrpt.co.in) & [vdinakar@bhelrpt.co.in](mailto:vdinakar@bhelrpt.co.in)

Thanking you.



V.Rajendran ,  
Manager (CIVIL P&S)

Copy to:

Con File.

Sr DGM (CIVIL PROJECTS AND SERVICES)..... For kind information please.



**Bharat Heavy Electricals Limited**  
**Boiler Auxiliaries Plant**

Ranipet - 632 406

Tamil Nadu, India

**CIVIL FACTORY AND DESIGNS**

Phone: 04172- 212026/254694 Fax : 04172 -241102

Email : [ccdurai@bhelrpt.co.in](mailto:ccdurai@bhelrpt.co.in)

BAP: CF&D:16 / 3843

January 5, 2010

To

-- As per annexure enclosed ----

Dear Sir(s),

Sub: **Civil works for machine foundations in shop floor in factory - Reg.**

Ref: Tender Notice No .BAP: CF: 42 / 2009 – 2010 Dt 05.01.2010.

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>Civil works for machine foundations in shop floor in factory.</b> |                 |                   |                    |                   |
| EMD amount   | <b>Rs 60,000.00</b>                                                  | Date of Opening | <b>20.01.2010</b> | Period of Contract | <b>Two months</b> |

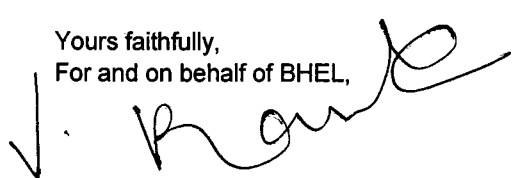
**THE SUCCESSFUL TENDERER IS REQUIRED TO START THE WORK IMMEDIATELY AND COMPLETE THE WORK WITHIN THE STIPULATED TIME. UNDER ANY CIRCUMSTANCES NO EXTENSION OF TIME WILL BE GRANTED. ANY DELAY BEYOND THE DUE DATE OF COMPLETION WILL BE SUBJECTED TO LIQUIDATED DAMAGES.**

- **The successful tenderer has to remit Security Deposit as mentioned in the Page -2.**

- 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.
- No deviations to the tender conditions will normally be accepted.

Thanking you,

Yours faithfully,  
For and on behalf of BHEL,

  
(V.RAJENDRAN)  
Manager (Civil Project & Services)

**Copy to :**

- (i) Dy Manager / Finance (works) : with a request to depute your representative for tender opening
- (ii) Tender file (ie, CON. File)
- (iii) File No 16
- (iv) Agencies as per the annexure

**Encl.: Tender Document**



**Bharat Heavy Electricals Limited  
Boiler Auxiliaries Plant**

Ranipet - 632 406

Tamil Nadu, India

**CIVIL FACTORY AND DESIGNS**

Phone: 04172- 212026/254694 Fax : 04172 -241102

Email : [ccdurai@bhelrpt.co.in](mailto:ccdurai@bhelrpt.co.in)

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**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. **The same will be refunded thro Electronic Fund Transfer only.** Other modes of refund like Demand draft, Cheque, Pay order etc., will not be made.
- (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.

(Contd.....3)



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**Bharat Heavy Electricals Limited**  
**Boiler Auxiliaries Plant**  
Ranipet - 632 406  
Tamil Nadu, India  
**CIVIL FACTORY AND DESIGNS**

Phone: 04172- 212026/254694 Fax : 04172 -241102

Email : [ccdurai@bhelrpt.co.in](mailto:ccdurai@bhelrpt.co.in)

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**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.**

**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  
**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  
(ii) Special conditions of contract.

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

Page 1 of 24**ESTIMATE**

Part - I

ESTIMATE REF NO : CF/MC/09/28

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 5000 MM EP IN SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                         | QTY     | UNIT | RATE<br>RS<br>P | AMOUNT<br>RS<br>P |
|------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------------|-------------------|
| 15.2.1           | 01   | "Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. For 1:3:6 or richer mix."                                                                                                                                                                                               | 3.500   | CUM  | 368.45          | 1289.58           |
| 15.3             | 02   | "Demolishing R.C.C work manually/ by mechanical means including stacking of steel bars and disposal of un service material within 50 metres lead as per direction of Engineer - in - charge."                                                                                                                                                                                       | 12.000  | CUM  | 537.55          | 6450.60           |
| 15.43.1          | 03   | Demolishing manually / by mechanical means ncluding stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge. For soling stone/Water bound macadam.                                                                                                                                                 | 110.000 | SQM  | 34.30           | 3773.00           |
| 2.8.1            | 04   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. For All kinds of soil. | 30.000  | CUM  | 103.40          | 3102.00           |
| 2                | 05   | "Excavation work by mechanical means excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m."                                               |         |      |                 | .00               |
| 2.9.1            | 05A  | For Ordinary rock.                                                                                                                                                                                                                                                                                                                                                                  | 10.000  | CUM  | 162.65          | 1626.50           |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 2 of 24

ESTIMATE REF NO : CF/MC/09/28

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 5000 MM EP IN SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | QTY     | UNIT | RATE    |   | AMOUNT   |   |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|---------|---|----------|---|
|                  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |      | RS      | P | RS       | P |
| 2.9.2            | 05B  | Hard rock (requiring blasting)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5.000   | CUM  | 272.95  |   | 1364.75  |   |
| 2.9.3            | 05C  | For Hard rock (Blasting prohibited).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100.000 | CUM  | 332.45  |   | 33245.00 |   |
| 4.1.10           | 06   | "Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 Cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size)."                                                                                                                                                                                                                                                                                                                                                                                                           | 11.000  | CUM  | 1564.35 |   | 17207.85 |   |
| 5.9.1            | 07   | "Centering and shuttering including strutting, propping etc. and and removal of form for:For Foundations, footings, bases of columns, etc. For mass concrete."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 95.000  | SQM  | 119.25  |   | 11328    |   |
| DATA             | 08   | Providing pockets or holes in foundations for holding down bolts using G.I pipes or 12 mm including fixing the pipes or and plywood work of required sizes in position to correct alignment level and removal of the form work. Rate all inclusive.                                                                                                                                                                                                                                                                                                                                                                                            | 50.000  | SQM  | 718.75  |   | 35937.50 |   |
| 5.33             | 09   | "5.33 Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410kg. of cement per cum of concrete. All work up to floor V level." | 10.000  | CUM  | 2023.60 |   | 20236.00 |   |

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**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

Page 3 of 24**ESTIMATE**

ESTIMATE REF NO : CF/MC/09/28

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 5000 MM EP IN SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | QTY      | UNIT | RATE<br>RS P | AMOUNT<br>RS P |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------------|----------------|
| 5.37             | 10   | "Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete.All works up to floor V level." | 84.000   | CUM  | 4356.50      | 365946.00      |
| 5.39             | 11   | Extra for carriage of R.M.C. beyond the initial lead of 10km.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.000   | CUM  | 20.90        | 1755.60        |
| 5.22.3           | 12   | "Reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete.For Cold twisted bars."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9500.000 | KG   | 6.19         | 58805.00       |
| 5.1.2            | 13   | "Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.000    | CUM  | 1660.00      | 3320.00        |
| 2.27             | 14   | "Supplying and filling in plinth with good sand under floors including, watering, ramming consolidating and dressing complete."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 70.000   | CUM  | 301.50       | 21105.00       |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 4 of 24

ESTIMATE REF NO : CF/MC/09/28

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 5000 MM EP IN SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                           | QTY     | UNIT  | RATE    |   | AMOUNT   |   |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------|---|----------|---|
|                  |      |                                                                                                                                                                                                                       |         |       | RS      | P | RS       | P |
| 1.1.2/5          | 15   | Conveyance of earth,sand,gravel etc by contractor's own lorry for loading ,leading ,unloading,stacking or spreading asper the instruction of Engineer in charge.From 1KM to 2 KM.                                     | 50.000  | CUM   | 56.41   |   | 2820.50  |   |
| TWAD 09-10       | 16   | "Providing and fixing PVC water pipes conforming to IS : 4985/2000 including laying jointing with all complete .For 200 mm diameter"                                                                                  | 10.000  | RM    | 637.50  |   | 6375.00  |   |
| 5.28             | 17   | Providing and fixing in position 18mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer,sealing compound in expansion joints.                                                     | 50.000  | SQM   | 501.00  |   | 25050.00 |   |
| 13.52.2          | 18   | Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.On concrete work. | 110.000 | SQM   | 77.75   |   | 8552.50  |   |
| 10.1             | 19   | 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.                     | 500.000 | KG    | 6.50    |   | 3250.00  |   |
| DATA             | 20   | R.C.C floor cutting by using Hilti D.L.P - 32 / Wall sawing system with digital remote control quickly set up with high performance heavy duty system cutting thickness for 200 mm to 350 mm for charges complete.    | 82.000  | RM    | 2100.00 |   | 172200   |   |
| DATA             | 21   | Providing lifting hook with anchor bolts for removal of RCC floor cut piece of required size approximately 2.00x2.00m panels all complete. (Crane will be issued at free of cost by BHEL).                            | 15.000  | PIECE | 1200.00 |   | 18000.00 |   |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 5 of 24

ESTIMATE REF NO : CF/MC/09/28

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 5000 MM EP IN SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                   | QTY     | UNIT | RATE<br>RS<br>P | AMOUNT<br>RS<br>P |
|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------------|-------------------|
| DATA             | 22   | Drilling holes in hard rock by using mechanical /penumatic compressor for of holes 20 mm dia and depth upto 600 mm. Rate all inclusive of compressor hire charges,drill bits, cleaning of holes/rock etc.,all complete.                                                                                                                                       | 144.000 | EACH | 40.00           | 5760.00           |
| CF26/08-09       | 23   | Grouting the holding bolts and underneath the base plates etc.,after alignment with non-shrink free flow grout mix of SHRINKOMP 30 (ACC's make)or equivalent as per standard specifications and instructions of Engineer -in -charge.Rate to include charges for cleaning the sleeves or pockets and other incidental charges,tools and plants etc.,complete. | 0.100   | CUM  | 40422.55        | 4042.26           |
| DATA             | 24   | Grouting the pockets / holes with quick setting polyester resin grout of Resin Anchor grout Cera Anchorset or equivalent as approved by Engineer in charge. The rate to include cost of all materials only                                                                                                                                                    | 18.000  | KG   | 244.10          | 4393.80           |
| DATA             | 25   | Grouting the holding down bolts and under neath the base plates etc.,after alignment with Resin grout as per standard specification.Rate to include charges for cleaningf the sleeves or pockets and other incidental charges,tools,and plants etc.complete except cost of Resin grout which will be paid in separate item.                                   | 144.000 | EACH | 64.00           | 9216.00           |
| DATA             | 26   | Blasting in hard granite by drilling holes using Mechanical /penumatic compressor for drilling of holes 20 mm dia and depth 600 mm and blasting material for blasting .Rate all inclusive of air compressor hire charges, drill bits,blasting material and labour etc.,all Complete.                                                                          | 20.000  | EACH | 80.00           | 1600.00           |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 6 of 24

ESTIMATE REF NO : CF/MC/09/28

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 5000 MM EP IN SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                             | QTY    | UNIT  | RATE |        | AMOUNT  |
|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|--------|---------|
|                  |      |                                                                                                                                                                                                                                                                                                         |        |       | RS   | P      | RS      |
| CF27/08-09       | 27   | Pressure Grouting of cement slurry admixed with an expensive plasticizing agent, packing with quick setting cement and providing at floor and wall joints etc,with cement mortar after applying one coat of water based dispersion of acrylic polymer mixed with the cement .                           | 10.000 | POINT |      | 287.50 | 2875.00 |
| DATA             | 28   | Supply and application of bonding agent Dr. Fixit MPB or equivalent .The bonding agent to be prepared with 1:1 (1 bonding agent : 1 Cement )and on cleaned the surface at tacky state. To be applied 30 minutes before concreting to get the touch dry condition.(Cement will be issued free of cost ). | 15.000 | SQM   |      | 71.55  | 1073.25 |

851701.44

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

Page 7 of 24**ESTIMATE**

Part - II

ESTIMATE REF NO : CF/MC/09/29

NAME OF WORK : PROVIDING FOUNDATION FOR MOVING COLUMN MILLING MACHINE SP 6000 SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                         | QTY    | UNIT | RS<br>RATE<br>P | RS<br>AMOUNT<br>P |
|------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-----------------|-------------------|
| 15.2.1           | 01   | "Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. For 1:3:6 or richer mix."                                                                                                                                                                                               | 3.500  | CUM  | 368.45          | 1289.58           |
| 15.3             | 02   | "Demolishing R.C.C work manually/ by mechanical means including stacking of steel bars and disposal of un service material within 50 metres lead as per direction of Engineer - in - charge."                                                                                                                                                                                       | 8.000  | CUM  | 537.55          | 4300.40           |
| 15.43.1          | 03   | Demolishing manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge. For soling stone/Water bound macadam.                                                                                                                                                | 70.000 | SQM  | 34.30           | 2401.00           |
| 2.8.1            | 04   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. For All kinds of soil. | 3.000  | CUM  | 103.40          | 310.20            |
| 2.9.1            | 05   | "Excavation work by mechanical means excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m."                                               |        |      |                 | .00               |
| 2.9.1            | 05A  | For Ordinary rock.                                                                                                                                                                                                                                                                                                                                                                  | 20.000 | CUM  | 162.65          | 3253.00           |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**page 8 of 24

ESTIMATE REF NO : CF/MC/09/29

NAME OF WORK : PROVIDING FOUNDATION FOR MOVING COLUMN MILLING MACHINE SP 6000 SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | QTY    | UNIT | RATE    |   | AMOUNT   |   |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------|---|----------|---|
|                  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |      | RS      | P | RS       | P |
| 2.9.2            | 05B  | For hard rock (requiring blasting )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.000  | CUM  | 272.95  |   | 1364.75  |   |
| 2.9.3            | 05C  | For Hard rock (Blasting prohibited).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10.000 | CUM  | 332.45  |   | 3324.50  |   |
| 4.1.11           | 06   | "Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 Cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size)."                                                                                                                                                                                                                                                                                                                      | 8.000  | CUM  | 1564.35 |   | 12514.80 |   |
| 5.9.1            | 07A  | "Centering and shuttering including strutting, propping etc. and and removal of form for:For Foundations, footings, bases of columns, etc. For mass concrete."                                                                                                                                                                                                                                                                                                                                                                                            | 45.000 | SQM  | 119.25  |   | 5366.    |   |
| 5.9.14           | 07B  | Extra for shuttering in circular work (20% of respective centering and shuttering items).                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 95.000 | SQM  | 143.10  |   | 13594.50 |   |
| DATA             | 08   | Providing pockets or holes in foundations for holding down bolts using G.I pipes or 12 mm thick shuttering plywood including fixing the pipes or and plywood work of required sizes in position to correct alignment level and removal of the form work. Rate all inclusive.                                                                                                                                                                                                                                                                              | 10.000 | SQM  | 718.75  |   | 7187.50  |   |
| 5.33             | 09   | Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete | 10.000 | CUM  | 2023.60 |   | 20236.00 |   |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 9 of 24

ESTIMATE REF NO : CF/MC/09/29

NAME OF WORK : PROVIDING FOUNDATION FOR MOVING COLUMN MILLING MACHINE SP 6000 SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | QTY      | UNIT | RATE    |   | AMOUNT    |   |
|------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|---------|---|-----------|---|
|                  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      | RS      | P | RS        | P |
|                  |      | by using 410kg. of cement per cum of concrete. All work up to floor V level."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |         |   |           |   |
| 5.34.2           | 09A  | Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-35 grade concrete by using 428kg of cement per cum of concrete instead of M-25 grade B.M.C./ R.M.C...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10.000   | CUM  | 4.96    |   | 49.60     |   |
| 5.37             | 10   | "Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete. All works up to floor V level." | 84.000   | CUM  | 4356.50 |   | 365946.00 |   |
| 5.39             | 11   | Extra for carriage of R.M.C. beyond the initial lead of 10km.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 84.000   | CUM  | 20.90   |   | 1755.60   |   |
| 5.22.3           | 12   | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. For Cold twisted bars.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4700.000 | KG   | 6.19    |   | 29093.00  |   |
| 5.1.2            | 13   | "Providing and laying in position specified grade of reinforced cement concrete excluding the cost of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25.000   | CUM  | 1660.00 |   | 41500.00  |   |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 10 of 24

ESTIMATE REF NO : CF/MC/09/29

NAME OF WORK : PROVIDING FOUNDATION FOR MOVING COLUMN MILLING MACHINE SP 6000 SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                           | QTY     | UNIT | RATE   |   | AMOUNT   |   |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------|---|----------|---|
|                  |      |                                                                                                                                                                                                                       |         |      | RS     | P | RS       | P |
|                  |      | centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)"                                                 |         |      |        |   |          |   |
| 2.27             | 14   | " Supplying and filling in plinth with good sand under floors including, watering, ramming consolidating and dressing complete."                                                                                      | 70.000  | CUM  | 301.50 |   | 21105.00 |   |
| 1.1.2/4          | 15A  | Conveyance of earth,sand,gravel etc by contractor's own lorry for loading ,leading ,unloading,stacking or spreading asper the instruction of Engineer in charge.From 0 KM to 1 KM.                                    | 70.000  | CUM  | 49.42  |   | 3459 10  |   |
| 1.1.2/5          | 15B  | From 1 KM to 2 KM lead.                                                                                                                                                                                               | 70.000  | CUM  | 56.41  |   | 3948.70  |   |
| 12.40.2          | 16   | Providing and fixing PVC water pipes conforming to IS : 4985/2000 including laying jointing with all complete .For 200 mm diameter.                                                                                   | 10.000  | RM   | 637.50 |   | 6375.00  |   |
| 5.28             | 17   | Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer,sealing compound in expansion joints.                                                     | 50.000  | SQM  | 501.00 |   | 25050.00 |   |
| 13.52            | 18   | Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.On concrete work. | 120.000 | SQM  | 77.75  |   | 9330.00  |   |
| 16.3.2           | 19   | Supplying and stacking at site.For 63 mm to 45 mm size stone aggregate.                                                                                                                                               | 10.000  | CUM  | 768.45 |   | 7684.50  |   |
| 10.1             | 20   | "Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming                                                                | 500.000 | KG   | 6.50   |   | 3250.00  |   |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 11 of 24

ESTIMATE REF NO : CF/MC/09/29

NAME OF WORK : PROVIDING FOUNDATION FOR MOVING COLUMN MILLING MACHINE SP 6000 SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                   | QTY     | UNIT  | RATE     |   | AMOUNT    |   |
|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|----------|---|-----------|---|
|                  |      |                                                                                                                                                                                                                                                                                                                                                               |         |       | RS       | P | RS        | P |
|                  |      | coat of approved steel primer all complete"                                                                                                                                                                                                                                                                                                                   |         |       |          |   |           |   |
| DATA             | 21   | R.C.C floor cutting by using Hilti D.L.P - 32 / Wall sawing system with digital remote control quickly set up with high performance heavy duty system cutting thickness for 200 mm to 350 mm for charges complete.                                                                                                                                            | 50.000  | RM    | 2100.00  |   | 105000.00 |   |
| DATA             | 22   | Providing lifting hook with anchor bolts for removal of RCC floor cut piece of required size all complete. (Crane will be issued at free of cost by BHEL).                                                                                                                                                                                                    | 12.000  | PIECE | 1200.00  |   | 14400.00  |   |
| DATA             | 23   | Drilling holes in hard rock by using mechanical /pneumatic compressor for of holes 20 mm dia and depth upto 600 mm. Rate all inclusive of compressor hire charges,drill bits,cleaning of holes/rock etc.,all complete.                                                                                                                                        | 112.000 | EACH  | 40.00    |   | 4480.00   |   |
| CF26/08-09       | 24   | Grouting the holding bolts and underneath the base plates etc.,after alignment with non-shrink free flow grout mix of SHRINKOMP 30 (ACC's make)or equivalent as per standard specifications and instructions of Engineer -in -charge.Rate to include charges for cleaning the sleeves or pockets and other incidental charges,tools and plants etc.,complete. | 0.500   | CUM   | 40422.55 |   | 20211.28  |   |
| DATA             | 25   | Grouting the pockets / holes with quick setting polyester resin grout of Resin Anchor grout Cera Anchorset <sub>2</sub> or equivalent as approved by Engineer in charge. The rate to include cost of all materials only .                                                                                                                                     | 14.000  | KG    | 244.10   |   | 3417.40   |   |
| DATA             | 26   | Grouting the holding down bolts and under neath the base plates etc.,after alignment with Resin grout as per standard specification.Rate to include                                                                                                                                                                                                           | 112.000 | EACH  | 64.00    |   | 7168.00   |   |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 12 of 24

ESTIMATE REF NO : CF/MC/09/29

NAME OF WORK : PROVIDING FOUNDATION FOR MOVING COLUMN MILLING MACHINE SP 6000 SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                             | QTY    | UNIT  | RATE   |   | AMOUNT   |   |
|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|--------|---|----------|---|
|                  |      |                                                                                                                                                                                                                                                                                                         |        |       | RS     | P | RS       | P |
|                  |      | charges for cleaningf the sleeves or pockets and other incidental charges,tools,and plants etc.complete except cost of Resin grout which will be paid in separate item.                                                                                                                                 |        |       |        |   |          |   |
| DATA             | 27   | Blasting in hard granite by drilling holes using Mechanical /pneumatic compressor for drilling of holes 20 mm dia and depth 600 mm and blasting material for blasting .Rate all inclusive of air compressor hire charges, drill bits,blasting material and labour etc.,all Complete.                    | 15.000 | EACH  | 80.00  |   | 1200.00  |   |
| CF27/08-09 :     | 28   | Pressure Grouting of cement slurry admixed with an expensive plasticizing agent, packing with quick setting cement and providing at floor and wall joints etc,with cement mortar after applying one coat of water based dispersion of acrylic polymer mixed with the cement .                           | 50.000 | POINT | 287.50 |   | 14375.00 |   |
| DATA             | 29   | Supply and application of bonding agent Dr. Fixit MPB or equivalent .The bonding agent to be prepared with 1:1 (1 bonding agent : 1 Cement )and on cleaned the surface at tacky state. To be applied 30 minutes before concreting to get the touch dry condition.(Cement will be issued free of cost ). | 30.000 | SQM   | 71.55  |   | 2146.50  |   |

76600.46

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**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

Part - III

Date 13 of 24

ESTIMATE REF NO : CF/MC/09/30

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 10000 MM EP MACHINE SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                         | QTY    | UNIT | RS<br>RATE<br>P | RS<br>AMOUNT<br>P |
|------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-----------------|-------------------|
| 15.2.1           | 01   | "Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. For 1:3:6 or richer mix."                                                                                                                                                                                               | 3.500  | CUM  | 368.45          | 1289.58           |
| 15.3             | 02   | "Demolishing R.C.C work manually/ by mechanical means including stacking of steel bars and disposal of un service material within 50 metres lead as per direction of Engineer - in - charge."                                                                                                                                                                                       | 12.000 | CUM  | 537.55          | 6450.60           |
| 15.43.1          | 03   | Demolishing manually / by mechanical means ncluding stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge. For soling stone/Water bound macadam.                                                                                                                                                 | 80.000 | SQM  | 34.30           | 2744.00           |
| 2.8.1            | 04   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. For All kinds of soil. | 15.000 | CUM  | 103.40          | 1551.00           |
| 2                | 05   | "Excavation work by mechanical means excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m."                                               |        |      |                 | .00               |
| 2.9.1            | 05A  | For Ordinary rock.                                                                                                                                                                                                                                                                                                                                                                  | 15.000 | CUM  | 162.65          | 2439.75           |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

ESTIMATE REF NO : CF/MC/09/30

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NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 10000 MM EP MACHINE SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | QTY     | UNIT | RATE    |   | AMOUNT    |   |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|---------|---|-----------|---|
|                  |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |      | RS      | P | RS        | P |
| 2.9.2            | 05B  | For hard rock (requiring blasting).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5.000   | CUM  | 272.95  |   | 1364.75   |   |
| 2.9.3            | 05C  | For Hard rock (Blasting prohibited).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50.000  | CUM  | 332.45  |   | 16622.50  |   |
| 4.1.11           | 06   | "Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 Cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size)."                                                                                                                                                                                                                                                                                                                                                                                                     | 11.000  | CUM  | 1564.35 |   | 17207.85  |   |
| 5.9.1            | 07   | "Centering and shuttering including strutting, propping etc. and and removal of form for:For Foundations, footings, bases of columns, etc. For mass concrete."                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 92.000  | SQM  | 119.25  |   | 10971     | J |
| DATA             | 08   | Providing pockets or holes in foundations for holding down bolts using G.I pipes or 12 mm thick shuttering plywood including fixing the pipes or and plywood work of required sizes in position to correct alignment level and removal of the form work. Rate all inclusive.                                                                                                                                                                                                                                                                                                                                                             | 210.000 | SQM  | 718.75  |   | 150937.50 |   |
| 5.33             | 09   | "Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410kg. of cement per cum of concrete. All work up to floor V level." | 10.000  | CUM  | 2023.60 |   | 20236.00  |   |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

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ESTIMATE REF NO : CF/MC/09/30

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 10000 MM EP MACHINE SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | QTY       | UNIT | RS<br>RATE<br>P | RS<br>AMOUNT<br>P |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----------------|-------------------|
| 5.37             | 10   | "Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete. All works up to floor V level." | 84.000    | CUM  | 4356.50         | 365946.00         |
| 5.39             | 11   | Extra for carriage of R.M.C. beyond the initial lead of 10km.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.000    | CUM  | 20.90           | 1755.60           |
| 5.22.3           | 12   | Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. For Cold twisted bars.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10000.000 | KG   | 6.19            | 61900.00          |
| 5.1.2            | 13   | "Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 35.000    | CUM  | 1660.00         | 58100.00          |
| 2.27             | 14   | "Supplying and filling in plinth with good sand under floors including, watering, ramming consolidating and dressing complete."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70.000    | CUM  | 301.50          | 21105.00          |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

ESTIMATE REF NO : CF/MC/09/30

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NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 10000 MM EP MACHINE SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                           | QTY     | UNIT  | RATE    |   | AMOUNT    |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------|---|-----------|
|                  |      |                                                                                                                                                                                                                       |         |       | RS      | P | RS        |
| 1.1.2/4          | 15A  | Conveyance of earth,sand,gravel etc by contractor's own lorry for loading ,leading ,unloading,stacking or spreading asper the instruction of Engineer in charge.From 0 KM to 1 KM.                                    | 70.000  | CUM   | 49.42   |   | 3459.40   |
| 1.1.2/5          | 15B  | From 1 KM to 2 KM lead.                                                                                                                                                                                               | 105.000 | CUM   | 56.41   |   | 5923.05   |
| 5.28             | 16   | Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer,sealing compound in expansion joints.                                                     | 80.000  | SQM   | 501.00  |   | 40080.00  |
| 13.52            | 17   | Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.On concrete work. | 230.000 | SQM   | 77.75   |   | 17882.50  |
| 10.1             | 18   | "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"                    | 500.000 | KG    | 6.50    |   | 3250.00   |
| DATA             | 19   | R.C.C floor cutting by using Hilti D.L.P - 32 / Wall sawing system with digital remote control quickly set up with high performance heavy duty system cutting thickness for 200 mm to 350 mm for charges complete.    | 120.000 | RM    | 2100.00 |   | 252000.00 |
| DATA             | 20   | Providing lifting hook with anchor bolts for removal of RCC floor cut piece of required size approximately 2.00 x2.00 m panels all complete. (Crane will be issued at free of costby BHEL).                           | 42.000  | PIECE | 1200.00 |   | 50400.00  |
| DATA             | 21   | Drilling holes in hard rock by using mechanical /penumatic compressor for                                                                                                                                             | 174.000 | EACH  | 40.00   |   | 6960.00   |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 17 of 24

ESTIMATE REF NO : CF/MC/09/30

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 10000 MM EP MACHINE SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                        | QTY     | UNIT  | RATE<br>RS P | AMOUNT<br>RS P |
|------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|----------------|
|                  |      | of holes 20 mm dia and depth upto 600 mm. Rate all inclusive of compressor hire charges, drill bits, cleaning of holes/rock etc., all complete.                                                                                                                                                                                                                    |         |       |              |                |
| CF26/08-09 :     | 22   | Grouting the holding bolts and underneath the base plates etc., after alignment with non-shrink free flow grout mix of SHRINKOMP 30 (ACC's make) or equivalent as per standard specifications and instructions of Engineer -in -charge. Rate to include charges for cleaning the sleeves or pockets and other incidental charges, tools and plants etc., complete. | 0.100   | CUM   | 40422.55     | 4042.26        |
| DATA             | 23   | Grouting the pockets / holes with quick setting polyester resin grout of Resin Anchor grout Cera Anchorset; or equivalent as approved by Engineer in charge. The rate to include cost of all materials only.                                                                                                                                                       | 21.000  | KG    | 244.10       | 5126.10        |
| DATA             | 24   | Grouting the holding down bolts and under neath the base plates etc., after alignment with Resin grout as per standard specification. Rate to include charges for cleaningf the sleeves or pockets and other incidental charges, tools, and plants etc. complete except cost of Resin grout which will be paid in separate item.                                   | 174.000 | EACH  | 64.00        | 11136.00       |
|                  | 25   | Blasting in hard granite by drilling holes using Mechanical /pneumatic compressor for drilling of holes 20 mm dia and depth 600 mm and blasting material for blasting .Rate all inclusive of air compressor hire charges, drill bits, blasting material and labour etc., all Complete.                                                                             | 30.000  | EACH  | 80.00        | 2400.00        |
| CF27/08-09 :     | 26   | Pressure Grouting of cement slurry admixed with an expensive plasticizing agent, packing with quick setting                                                                                                                                                                                                                                                        | 20.000  | POINT | 287.50       | 5750.00        |

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ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 18 of 24

ESTIMATE REF NO : CF/MC/09/30

NAME OF WORK : PROVIDING CNC LATHE FOUNDATION 10000 MM EP MACHINE SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                             | QTY    | UNIT | RATE  |   | AMOUNT  |   |
|------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-------|---|---------|---|
|                  |      |                                                                                                                                                                                                                                                                                                         |        |      | RS    | P | RS      | P |
|                  |      | cement and providing at floor and wall joints etc,with cement mortar after applying one coat of water based dispersion of acrylic polymer mixed with the cement .                                                                                                                                       |        |      |       |   |         |   |
| DATA             | 27   | Supply and application of bonding agent Dr. Fixit MPB or equivalent .The bonding agent to be prepared with 1:1 (1 bonding agent : 1 Cement )and on cleaned the surface at tacky state. To be applied 30 minutes before concreting to get the touch dry condition.(Cement will be issued free of cost ). | 25.000 | SQM  | 71.55 |   | 1788.75 |   |

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**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

Part - IV

19 of 24

ESTIMATE REF NO : CF/MC/09/31

NAME OF WORK : PROVIDING EDGE MILLING MACHINE FOUNDATION SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                         | QTY    | UNIT | RATE<br>RS<br>P | AMOUNT<br>RS<br>P |
|------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|-----------------|-------------------|
| 15.2.1           | 01   | "Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. For 1:3:6 or richer mix."                                                                                                                                                                                               | 1.000  | CUM  | 368.45          | 368.45            |
| 15.3             | 02   | "Demolishing R.C.C work manually/ by mechanical means including stacking of steel bars and disposal of un service material within 50 metres lead as per direction of Engineer - in - charge."                                                                                                                                                                                       | 3.000  | CUM  | 537.55          | 1612.65           |
| 15.43.1          | 03   | Demolishing manually / by mechanical means ncluding stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in - charge. For soling stone/Water bound macadam.                                                                                                                                                 | 30.000 | SQM  | 34.30           | 1029.00           |
| 2.8.1            | 04   | Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. For All kinds of soil. | 5.000  | CUM  | 103.40          | 517.00            |
| 2.9.1            | 05   | "Excavation work by mechanical means excavator)/manual means in foundation trenches or drains not exceeding 1.5 m in width or 10 sqm on plan including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m."                                               |        |      |                 | .00               |
| 2.9.1            | 05A  | For Ordinary rock.                                                                                                                                                                                                                                                                                                                                                                  | 4.000  | CUM  | 162.65          | 650.60            |

CONTRACTOR/ TENDERER

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 20 of 24

ESTIMATE REF NO : CF/MC/09/31

NAME OF WORK : PROVIDING EDGE MILLING MACHINE FOUNDATION SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | QTY    | UNIT | RATE<br>RS P | AMOUNT<br>RS P |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|--------------|----------------|
| 2.9.2            | 05B  | For hard rock (requiring blasting )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5.000  | CUM  | 272.95       | 1364.75        |
| 2.9.3            | 05C  | For Hard rock (Blasting prohibited).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.000  | CUM  | 332.45       | 664.90         |
| 4.1.11           | 06   | "Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:5:10 (1 Cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size)."                                                                                                                                                                                                                                                                                                                                                                                                     | 2.000  | CUM  | 1564.35      | 3128.70        |
| 5.9.1            | 07   | "Centering and shuttering including strutting, propping etc. and and removal of form for:For Foundations, footings, bases of columns, etc. For mass concrete."                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10.000 | SQM  | 119.25       | 1192.50        |
| DATA             | 08   | Providing pockets or holes in foundations for holding down bolts using G.I pipes or 12 mm thick shuttering plywood including fixing the pipes or and plywood work of required sizes in position to correct alignment level and removal of the form work. Rate all inclusive.                                                                                                                                                                                                                                                                                                                                                             | 22.000 | SQM  | 718.75       | 15812.50       |
| 5.33             | 09   | "Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410kg. of cement per cum of concrete. All work up to floor V level." | 2.000  | CUM  | 2023.60      | 4047.20        |

CONTRACTOR/ TENDERER

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**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**

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ESTIMATE REF NO : CF/MC/09/31

NAME OF WORK : PROVIDING EDGE MILLING MACHINE FOUNDATION SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | QTY     | UNIT | RATE<br>RS<br>P | AMOUNT<br>RS<br>P |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------------|-------------------|
| 5.37             | 10   | "Providing and laying in position ready mixed concrete manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. M-25 grade Reinforced cement concrete by using 410kg of cement per cum of concrete. All works up to floor V level." | 5.000   | CUM  | 4356.50         | 21782.50          |
| 5.39             | 11   | Extra for carriage of R.M.C. beyond the initial lead of 10km.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.000   | CUM  | 20.90           | 104.50            |
| 5.22.3           | 12   | "Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. For Cold twisted bars."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500.000 | KG   | 6.19            | 3095.00           |
| 5.1.2            | 13   | "Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.000   | CUM  | 1660.00         | 6640.00           |
| 2.27             | 14   | "Supplying and filling in plinth with good sand under floors including, watering, ramming consolidating and dressing complete."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5.000   | CUM  | 301.50          | 1507.50           |

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**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 22 of 24

ESTIMATE REF NO : CF/MC/09/31

NAME OF WORK : PROVIDING EDGE MILLING MACHINE FOUNDATION SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                           | QTY     | UNIT  | RATE    |   | AMOUNT   |   |
|------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------|---|----------|---|
|                  |      |                                                                                                                                                                                                                       |         |       | RS      | P | RS       | P |
| 1.1.2/4          | 15A  | Conveyance of earth,sand,gravel etc by contractor's own lorry for loading ,leading ,unloading,stacking or spreading asper the instruction of Engineer in charge.From 0 KM to 1 KM.                                    | 5.000   | CUM   | 49.42   |   | 247.10   |   |
| 1.1.2/5          | 15B  | From 1 KM to 2 KM lead.                                                                                                                                                                                               | 20.000  | CUM   | 56.41   |   | 1128.20  |   |
| 5.28             | 16   | Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer,sealing compound in expansion joints.                                                     | 30.000  | SQM   | 501.00  |   | 15030.00 |   |
| 13.52            | 17   | Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.On concrete work. | 7.000   | SQM   | 77.75   |   | 544.25   |   |
| 10.1             | 18   | 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.                     | 250.000 | KG    | 42.15   |   | 10537.50 |   |
| DATA             | 19   | R.C.C floor cutting by using Hilti D.L.P - 32 / Wall sawing system with digital remote control quickly set up with high performance heavy duty system cutting thickness for 200 mm to 350 mm for charges complete.    | 32.000  | RM    | 2100.00 |   | 67200.00 |   |
| DATA             | 20   | Providing lifting hook with anchor bolts for removal of RCC floor cut piece of required size approximately 2.00 x 2.00 m panels all complete. (Crane will be issued at free of costby BHEL).                          | 5.000   | PIECE | 1200.00 |   | 6000.00  |   |
| DATA             | 21   | Drilling holes in hard rock by using mechanical /penumatic compressor for                                                                                                                                             | 50.000  | EACH  | 40.00   |   | 2000.00  |   |

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**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 23 of 24

ESTIMATE REF NO : CF/MC/09/31

NAME OF WORK : PROVIDING EDGE MILLING MACHINE FOUNDATION SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                        | QTY    | UNIT  | RATE     |   | AMOUNT  |   |
|------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|----------|---|---------|---|
|                  |      |                                                                                                                                                                                                                                                                                                                                                                    |        |       | RS       | P | RS      | P |
|                  |      | of holes 20 mm dia and depth upto 600 mm. Rate all inclusive of compressor hire charges, drill bits, cleaning of holes/rock etc., all complete.                                                                                                                                                                                                                    |        |       |          |   |         |   |
| CF26/08-09 :     | 22   | Grouting the holding bolts and underneath the base plates etc., after alignment with non-shrink free flow grout mix of SHRINKOMP 30 (ACC's make) or equivalent as per standard specifications and instructions of Engineer -in -charge. Rate to include charges for cleaning the sleeves or pockets and other incidental charges, tools and plants etc., complete. | 0.050  | CUM   | 40422.55 |   | 2021.13 |   |
| DATA             | 23   | Grouting the pockets / holes with quick setting polyester resin grout of Resin Anchor grout Cera Anchorset, or equivalent as approved by Engineer in charge. The rate to include cost of all materials only                                                                                                                                                        | 6.000  | KG    | 244.10   |   | 1464.60 |   |
| DATA             | 24   | Grouting the holding down bolts and under neath the base plates etc., after alignment with Resin grout as per standard specification. Rate to include charges for cleaningf the sleeves or pockets and other incidental charges, tools, and plants etc. complete except cost of Resin grout which will be paid in separate item.                                   | 50.000 | EACH  | 64.00    |   | 3200.00 |   |
| DI               | 25   | Blasting in hard granite by drilling holes using Mechanical /penumatic compressor for drilling of holes 20 mm dia and depth 600 mm and blasting material for blasting .Rate all inclusive of air compressor hire charges, drill bits, blasting material and labour etc., all Complete.                                                                             | 10.000 | EACH  | 80.00    |   | 800.00  |   |
| CF27/08-09 :     | 26   | Pressure Grouting of cement slurry admixed with an expensive plasticizing agent, packing with quick setting                                                                                                                                                                                                                                                        | 20.000 | POINT | 287.50   |   | 5750.00 |   |

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**BHARAT HEAVY ELECTRICALS LIMITED**

BOILER AUXILIARIES PLANT

RANIPET - 632406

**ESTIMATE**Page 24 of 24

ESTIMATE REF NO : CF/MC/09/31

NAME OF WORK : PROVIDING EDGE MILLING MACHINE FOUNDATION SHOP FLOOR.

| CPWD 2007<br>REF | SLNO | DESCRIPTION                                                                                                                                                                                                                                                                                              | QTY    | UNIT | RATE<br>RS P | AMOUNT<br>RS P |
|------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|--------------|----------------|
|                  |      | cement and providing at floor and wall joints etc,with cement mortar after applying one coat of water based dispersion of acrylic polymer mixed with the cement .                                                                                                                                        |        |      |              |                |
| DATA             | 27   | Supply and application of bonding agent Dr. Fixit MPB or equivalent .The bonding agent to be prepared with 1:1 (1 bonding agent : 1 Cement )and on cleaned the surface at tacky state. To be applied 30 minutes before concreting to get the touch dry condition. (Cement will be issued free of cost ). | 20.000 | SQM  | 71.55        | 1431.00        |

180871.53

**ANNEXURE**

|                                                               |           |                     |
|---------------------------------------------------------------|-----------|---------------------|
| Estimated value for PART - I                                  | Rs        | 8,51,701.44         |
| Estimated value for PART - II                                 | Rs        | 7,66,087.46         |
| Estimated value for PART - III                                | Rs        | 11,50,819.19        |
| Estimated value for PART - IV                                 | Rs        | 1,80,871.53         |
| <b>Total Estimated value..... (A)</b>                         | <b>Rs</b> | <b>29,49,479.62</b> |
| Contractor Tender Percentage @ ABOVE / BELOW / AT PAR ..... % |           |                     |
| (Percentage in words.....) <b>(B)</b>                         |           |                     |
| Sub total..... <b>(A+B)</b>                                   | Rs        |                     |
| Service Tax @..... %..... <b>(C)</b>                          | Rs        |                     |
| Service head :.....                                           | Rs        |                     |
| <b>Total value of work : (A + B + C)</b>                      | <b>Rs</b> |                     |

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**BHARAT HEAVY ELECTRICALS LIMITED****BOILER AUXILIARIES PLANT****RANIPET - 632 406****NAME OF WORK: Road Maintenance works in Factory & Township****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. <b>The contractor should accustom with CPWD DSR &amp; Specifications before quoting.</b>                                                                                                                 |
| 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 | 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.                                                                                                                                                                                                                                                          |
| 6 | <b>CONTRACT CONDITIONS ON TAXES &amp; DUTIES</b>                                                                                                                                                                                                                                                                                                                                                                     |
|   | a. The Tenderer shall have been Registered under Excise, Sales Tax, VAT, Service Tax regulations if applicable and provide a copy of such registration to BHEL as part of the tender document. In case of fresh registration/amendment thereon, the same shall be carried out before start of the work. PAN no shall be submitted as part the tender document. (copy to be enclosed)                                 |
|   | b. Service Tax shall be paid by the service provider namely the Tenderer.                                                                                                                                                                                                                                                                                                                                            |
|   | c. Required Tax Invoice as per the existing provisions to be issued in required parts duly signed by the Competent/Authorized Official of the Contractor to BHEL                                                                                                                                                                                                                                                     |
|   | d. If due to deficiency in the document submitted, BHEL could not avail CENVAT, VAT Credit, the credit amount will be recovered from the amount due to the Tenderer .                                                                                                                                                                                                                                                |
|   | e. If payment of statutory dues are not made in accordance with the applicable provisions of the relevant Act within the time specified and Penalty, Interest etc paid/payable by the Contractor, the same shall not be reimbursed by BHEL and the entire implication is only to be born by the Contractor. The Tenderer shall clearly indicate the rate of applicable taxes and duties for the work to be executed. |
|   | f. The Tenderer shall indicate all exemptions on account of thrushold limits or special notification under any stature. Any modification theron shall also be intimated immediately on changes.                                                                                                                                                                                                                      |
|   | g. The quote submitted shall include all taxes and duties of whatsoever in nature but exclusive of Service Tax which shall be quoted separately if applicable. The existing rate shall be quoted clearly. If reduced rates are applicable on account of material, labour if any the same shall be indicated clearly. After tender opening addition of any tax & duty is not admissible.                              |

CONTRACTOR/TENDERER

ACCEPTING OFFICER

Y.S./CIVIL 24157554 / 205 / ROR 2008-09 / XL  
 SPP (Civil) Head of Contract - LINE: 79 to 123  
 (SPP (Civil) Head of Contract)

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |    |         |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|---------|
|   | h. f any composition scheme is to be availed by the Tenderer, the all relevant terms and conditions shall be indicated clearly in the offer. The required compliance under relevant statue shall be carried out.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |    |         |
|   | i. Any statutory variation will be to the account of BHEL. But if the variation is effective during the delayed/extended period of execution for reasons attributable to the vendor, the same shall be borne by the vendor only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |    |         |
|   | J1. Whether Servicable Turnover has crossed the Service Tax Threshold Limit as per Service Tax Rules for the tenderer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | YES | NO | Remarks |
|   | J2. Registered with Service Tax authorities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | YES | NO |         |
|   | J3. If yes copy of Service Tax Regn. Is enclosed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | YES | NO |         |
|   | J4. Service Tax Registration No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |    |         |
|   | J5. Under which Service Head(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |    |         |
|   | J6. Service Tax @ % is applicable as extra for this tender.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |    |         |
|   | J7. Whether Input credit for the Materials is availed by the tenderer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | YES | NO |         |
|   | J8. Whether Input credit for the service portion is availed by the tenderer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | YES | NO |         |
|   | J9. The Total Value of Work (A+B+C) quoted is in the Tender is Inclusive of Service Tax . (Must be quoted both in figures and words)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |    |         |
|   | J10. Tenderer has their own PF registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | YES | NO |         |
|   | J11. Tenderer has their own ESI registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | YES | NO |         |
|   | J12. PAN No. of the Tenderer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |         |
| 7 | <p><b>7a) Power and water for all civil &amp; road construction works will be provided by BHEL from the nearest tapping point at the recovery rates specified below. The contract should make necessary arrangement for tapping the same at his own cost.</b></p> <p><b>7b) The Contractor should quote the tender considering the above. The recovery rates towards the cost for these facilities will be @ 1% for water charges &amp; 0.5% for Power charges will be effected from the bills on the executed value as certified by the Engineer-in-charge based on the usage of Power &amp; water .</b></p> <p><b>7c) In case the above facilities are not provided by BHEL, the tenderer has to arrange these facilities at his own cost and the recovery rates of 1% for water charges &amp; 0.5% for Power charges will not be effected on the executed value as certified by the Engineer-in-charge.</b></p> |     |    |         |
| 8 | All materials shall confirm to the latest IS/IRC specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |    |         |

CONTRACTOR/TENDERER

ACCEPTING OFFICER

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9  | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10 | All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 11 | 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..                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 12 | The current minimum wages per day for USW is Rs.149.00/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 13 | The contractor have to follow all statutory requirements like PF ,ESI etc.,through out the contract period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 14 | The General conditions of contract in force shall apply to this contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 15 | The contractor is required to engage a Diploma holder Engineer through out the contract period.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 16 | Time is essence of the contract. Any delay beyond the delivery date will be subjected to LD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17 | 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 acquainting themselves with the actual site conditions will be entertained at the later stage.                                                                                                                                                                                                                                                                                                                            |
| 18 | All materials shall confirm to the latest IS/IRC/MORTH specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 19 | <b>BHEL reserves the right of splitting the work as its description to TWO parties at the rate of ordering the works [(i) Providing CNC lathe foundation 5000mm in shop floor of estimated value Rs 8,51,701.44 and (ii) Providing foundation for moving column milling machine SP 6000 in shop floor of estimated value Rs 7,66,087.46] to L1 and the balance works viz [(iii) Providing CNC lathe foundation 10000mm EP machine in shop floor and of estimated value Rs 11,50,819.19 (iv) Providing edge milling machine foundation in shop floor of estimated value Rs 1,80,871.53] on L2 at the ordering tender percentage of of L1 respectively.</b> |

CONTRACTOR/TENDERER

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