

Bharat Heavy Electricals Limited
High Pressure Boiler Plant
Tiruchirappalli – 620 014. India
Civil Engineering Department (Factory)

TENDER DOCUMENT (PRICE BID)

Name of work : Development of RCC yards and roads
in and around BHEL, Tiruchy
Complex.

Value of work : Rs. 200.00 Lakh

Tender Notice No. : 08/10-11

Tender Schedule No. : 20/10-11

Period of Contract : 15 Months

Issued to :

SCHEDULE 'A'

LIST OF WORKS AND PRICES

NAME OF WORK: Development of RCC yards and roads in and around BHEL, Tiruchy Complex.

DETAILS & QUANTITIES of each item of work shown in the BILL OF QUANTITIES are only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the BILL OF QUANTITIES

| Sl.No. | Description of work / supplied | Total amount of work / supplies (in figures and words) | | Period of contract |
|--------|--|--|-----|----------------------------|
| | | Rs. | Ps. | |
| 1. | Development of RCC yards and roads in and around BHEL, Tiruchy Complex. | 200,00,000/- | | FIFTEEN (15) MONTHS |

BILL OF QUANTITIES

| Sl. No. | Appx. Qty. | Description of work | TNBP No. | Rate (Both in Unit fig & Words) | Amount Rs. | Ps. |
|---------|------------|---------------------|----------|---------------------------------|---------------|-----|
|---------|------------|---------------------|----------|---------------------------------|---------------|-----|

AS PER SEPARATE SHEETS ATTACHED CONTAINING **7** PAGES

FROM SERIAL No. **3** to **9**

CONTRACTOR

2

ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI - 14

BILL OF QUANTITIES

NAME OF WORK: **Development of RCC yards and roads in and around BHEL, Tiruchy Complex.**

| Sl. No. | Quantity | Description of work | Rate (both in figures and in words) | Unit | Total Rs. P. |
|---------|----------|---|-------------------------------------|------|--------------|
| 1 | | Dismantling / removing / demolishing as the case may be and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. | | | |
| a) | 25 | Brick work in cement mortar | | CUM | |
| b) | 25 | Stone rubble masonry in cement mortar | | CUM | |
| c) | 15 | Plain Cement Concrete. | | CUM | |
| d) | 15 | RCC works including stacking of steel bars. | | CUM | |

CONTRACTOR

3

ACCEPTING OFFICER

| Sl. No. | Quantity | Description of work | Rate (both in figures and in words) | Unit | Total Rs. P. |
|---------|----------|--|-------------------------------------|------|--------------|
| e | 20 | RCC pipes up to 450mm dia. | | RM | |
| f) | 150 | Bituminous roads | | CUM | |
| g) | 150 | WBM road. | | CUM | |
| 2 | | Earthwork excavation (TRENCHES) in soils given below and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5m for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. | | | |
| a) | 300 | Hard / dense soil | | CUM | |
| b) | 50 | Ordinary rock | | CUM | |

CONTRACTOR

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ACCEPTING OFFICER

| Sl. No. | Quantity | Description of work | Rate (both in figures and in words) | Unit | Total Rs. P. |
|---------|----------|---|-------------------------------------|------|--------------|
| 3 | | Earth work for surface excavation in soils given below including disposal of earth at suitable places within a lead up to 50 metres and lift up to 1.5 metre, sectioning the sub grade to proper level and grade. Disposed soil are to be leveled and neatly dressed. | | | |
| a) | 6000 | Hard / Dense soil | | CUM | |
| b) | 100 | Ordinary rock | | CUM | |
| 4 | 100 | Hire charges for engaging earth moving machinery (POCLAIN) to attend to channeling works at river bed , pipe line burst works , cleaning the areas including uprooting thorny plants / other plants / heavy jungles / trees etc. of all heights and leveling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire and operation charges, to & fro charges of machinery, all labour and all other incidentals etc., complete. | | HOUR | |
| 5 | 30000 | Hire and running charges for power roller of 8 to 10 T capacity for consolidating the existing ground as per specifications and instructions of Engineer-in-charge. | | SQM | |

CONTRACTOR

5

ACCEPTING OFFICER

| Sl. No. | Quantity | Description of work | Rate (both in figures and in words) | Unit | Total Rs. P. |
|---------|----------|---|-------------------------------------|------|--------------|
| 6 | 1000 | Supply and stacking earth to standard gauge at site of work as per specifications and instructions of Engineer-in-charge.(Measured in stacks will be reduced by 20% for payment) | | CUM | |
| 7 | 1000 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each layer by ramming, watering etc. complete. | | CUM | |
| 8 | 4000 | Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc, complete, all as per standard specifications. All works up to plinth level. Rate excludes cost of centring and shuttering. 1:4:8 with 20mm nominal size hard broken granite stone jelly. | | CUM | |
| 9 | 6500 | Flooring with reinforced cement concrete of mix 1:2:4 using 20 mm nominal size hard broken granite stone jelly laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications. | | CUM | |

CONTRACTOR

6

ACCEPTING OFFICER

| Sl. No. | Quantity | Description of work | Rate (both in figures and in words) | Unit | Total Rs. P. |
|---------|----------|---|-------------------------------------|------|--------------|
| 10 | 150 | Straightening, cutting, bending, placing in position of MS/CTD bars and binding with MS binding wires of 18/20 gauge etc. for reinforcement of RCC works at all levels. Rate includes cover blocks, cost of binding wire, conveyance of MS/CTD bars from BHEL stores to site of work, labour etc. complete. MS/CTD bars will be supplied by BHEL at Stores at free of cost. | | M.T | |
| 11 | 100 | Providing and fixing RCC precast perforated lawn drain cover slabs of 75MM thick in mix 1:2:4 using 6mm to 20mm size hard broken granite stone jelly including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel and fabrication charges. | | SQM | |
| 12 | 1250 | Providing and fixing in position of 12 mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing compound in expansion joints. | | SQM | |
| 13 | 4 | Providing and filling in position of bitumen mix filler of proportion 80 Kg of hot bitumen, 1 Kg of cement and 0.25 cubicmetre of coarse sand for expansion joints. | | CUM | |

CONTRACTOR

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ACCEPTING OFFICER

| Sl. No. | Quantity | Description of work | Rate (both in figures and in words) | Unit | Total Rs. P. |
|---------|----------|--|-------------------------------------|------|--------------|
| 14 | 125 | Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50 in foundation and plinth in: Cement mortar 1:5. In foundation and plinth. | | CUM | |
| 15 | 300 | Rough stone dry packing for aprons and revetments including filling interstices with spalls, wedges, consolidating and preparing the surface, all as per standard specifications. | | CUM | |
| 16 | 600 | Plastering with cement mortar 1:5, 12mm thick at all levels as per standard specifications. | | SQM | |
| 17 | 1200 | Pointing to rough stone dry packing in aprons and revetments including grouting to a depth of 40mm with cement mortar 1:3, all as per standard specifications. | | SQM | |
| 18 | | Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. | | | |

| Sl. No. | Quantity | Description of work | Rate (both in figures and in words) | Unit | Total Rs. P. |
|--------------------|----------|---------------------------|-------------------------------------|------|-----------------|
| a) | 2290 | 0 to 1km | | CUM | |
| b) | 1000 | Beyond 1 km but upto 2 km | | CUM | |
| c) | 1000 | Beyond 2 km but upto 3 km | | CUM | |
| TOTAL | | | | | |
| (RUPEES.....) | | | | | |