

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

**TENDER DOCUMENT (PRICE BID)**

**Name of work** : **Repair and replacement of damaged sunshades in quarters,BHEL Township,Trichy**

**Value of work** : **Rs. 4,82,015.00 + Applicable GST**

**Tender Schedule No.** : **CT:TS:034/19-20**

**Period of Contract** : **06 (Six) Months**

**EMD** : **Rs. 10000/- (Rupees Ten Thousand only)**

**Issued to** :

**Date of Notification** : **27.11.2019**

**Last Date for Receipt of Tender** : **17.12.2019 at 10.00 hrs**

**BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPALLI - 620 014**

**SCHEDULE - A**

**Name of Work:** Repair and replacement of damaged sunshades in quarters, BHEL Township, Trichy

I / We \_\_\_\_\_ have read the condition of tender attached hereto and agree to abide by such conditions. I/We offer to execute the works in **CT:TS:034/19-20 for a period of 06 (Six) Months** at the percentage below / at par / above the rates contained in Bill of Quantities appended **below from Page 03**.

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carry out all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-620 014. In case of acceptance of the tender by the BHEL, I/We bind myself/ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to me/us and thus failing which I/We shall have no objection to the forfeiture of the Earnest Money amount to **Rs. 10000/- (Rupees Ten Thousand only)** lodged with Bharat Heavy Electricals Limited, Tiruchirapalli-620 014.

I / We further agree to include all tools & plants and consumables required for the work in my / our scope but required power and water will be provided at one point by BHEL at free of cost and based on this, we have quoted our percentage.

**Note:** Details & Quantities of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is appended below. 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 overall percentage quoted by the contractor **Below (100-X) % / At par (100%) / Above (100+X) %** of the rates provided in Bill of Quantities appended below from **Page 03**

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the BHEL estimate rate provided in Bill of Quantities appended below from <b>Page 03</b>	
		In Figures	In Words
1.	<b>Rs. 4,82,015.00</b> (Excluding GST) = 100%		

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**Note: BHEL estimate total 100% is given below. Contractor has to quote Common single percentage, Below (100-X) % / At par (100%) / Above (100+X) %, with respect to the estimate total in Bill of Quantities below, at page 2 both in figures and in words.**

**BHEL / TRICHY-620 014 , CIVIL ENGINEERING DEPARTMENT-FACTORY**

**BILL OF QUANTITIES**

**Name of work : Repair and replacement of damaged sunshades in quarters,BHEL Township,Trichy**

SI.NO	BHEL SR No	Description of work	Qty	Unit	Rate (Rs)	Amount (Rs)
10	1509.A	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. <b>0 - 1 Km</b>	10	CUM	114.00	1140.00
20	1501	Grouting the H.D bolts, underneath the base plates etc., after alignment with wet cement grout (1:1), all as per standard specifications. Rate includes cleaning the sleeves/pockets, tools and plants required for the work etc., complete except cement which will be supplied by BHEL at stores at free of cost.	1	CUM	16000.65	16000.65
30	1502	Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 40 or Pidigrout 10M or Flogrout 60 or Conbextra GP2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.	3.5	CUM	53487.40	187205.90

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SI.NO	BHEL SR No	Description of work	Qty	Unit	Rate (Rs)	Amount (Rs)
40	1001.A5	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means 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. <b>RCC works including stacking of steel bars by manual/mechanical means.</b>	10	CUM	916.95	9169.50
50	1001.A1	Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means 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. <b>Brick work in cement mortar</b>	4	CUM	530.25	2121.00
60	0119.C	Drilling holes in hard granite/RCC structure: <b>75mm dia</b>	200	RM	167.35	33470.00
70	0505	Carrying from stacks at erection site to erection positions and erection of fabricated steel work including all handling, conveying, assembling, hoisting, erecting in position and site welding and or bolting, alignment of structures, all as per drawings and standard specifications. Rate includes bolts & nuts, hire for welding tools and plants, labour etc., but excluding cost of fabricated components. If required, power will be given free of cost by BHEL. Weight of fasteners will not be accounted for payment.	1	M.T	6667.90	6667.90

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SI.NO	BHEL SR No	Description of work	Qty	Unit	Rate (Rs)	Amount (Rs)
80	0520	Conveying all types & sizes of holding down bolts, nuts, washers etc. from BHEL Stores to site of work and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate excludes cost of bolts, nuts, washers etc.	2400	KG	23.55	56520.00
90	0702	Carrying , hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, etc., for side sheeting at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every valleys, etc., complete .All as per drawings, manufacturers specifications and instructions of Engineer-in-charge ..Rate includes cost of self tapping/ self drilling screws with EPDM washersetc., and labour charges for fixing, hire charges for tools and plants like drilling machines, cost of providing life line and other provisions for safety, scaffolding and all other incidental charges etc., complete but excluding cost of Aluminium zinc alloy coated high tensile steel sheets and its accessories such as ridge pieces, barge boards, curves, etc., which will be supplied by BHEL at Stores at free of cost. The payment will be made for the actual laid area only.	90	SQM	114.35	10291.50

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SI.NO	BHEL SR No	Description of work	Qty	Unit	Rate (Rs)	Amount (Rs)
100	0704	Supplying at site of work, hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, etc., for side sheeting at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every valleys, etc., complete .All as per drawings, manufacturers specifications and instructions of Engineer-in-charge ..Rate includes cost of self tapping/ self drilling screws with EPDM washersetc., and labour charges for fixing, hire charges for tools and plants like drilling machines, cost of providing life line and other provisions for safety, scaffolding and all other incidental charges etc., complete but excluding cost of Aluminium zinc alloy coated high tensile steel sheets and its accessories such as ridge pieces, barge boards, curves, etc., which will be supplied by BHEL at Stores at free of cost. The payment will be made for the actual laid area only.	220	SQM	585.60	128832.00
110	1102	Making chases upto 7.50 x 7.50 cm in walls for concealed pipe line works etc. including making good to match with existing one after housing pipes etc. complete. Rate excludes cost of pipes.	360	R.M	57.40	20664.00
120	0805	Damp proof course with cement mortar 1:3, 20 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	25	SQM	134.15	3353.75

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SI.NO	BHEL SR No	Description of work	Qty	Unit	Rate (Rs)	Amount (Rs)
130	0836.A	Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with aluminium paint of approved brand, brushing to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, scaffolding charges etc.complete. All as per standard specifications. <b>A Two coats</b>	3.25	M.T	1461.85	4751.01
140	0834.B	Painting one priming coat with approved primer over structural steel works in roof structures, columns etc., including preparing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications. <b>Red oxide primer</b>	3.25	MT	562.35	1827.64
		Total				<b>482014.85</b>
		<b>TOTAL COST OF WORK (Say)</b>				<b>482015.00</b>

Mentioned rates excludes GST%

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