

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

<b>TENDER DOCUMENT (PRICE BID)</b>		
<b>Name of work</b>	<b>:</b>	<b>Annual Maintenance contract for Colour washing, Distempering, painting etc., for buildings in BHEL Township-Trichy.</b>
<b>Tender Schedule No</b>	<b>:</b>	<b>CT: TS: 013/ 20 - 21</b>
<b>Estimate Value of Work</b>	<b>:</b>	<b>Rs. 20,00,000.00 + Applicable GST</b>
<b>EMD</b>	<b>:</b>	<b>Rs. 20,000.00 (Rupees Twenty Thousand only)</b>
<b>Period of Contract</b>	<b>:</b>	<b>15 (Fifteen) Months</b>
<b>Date of Notification</b>	<b>:</b>	<b>23.10.2020</b>
<b>Last Date of Receipt of Tender</b>	<b>:</b>	<b>17.11.2020 @ 10:00 hrs.</b>
<b>Date of Tender Opening</b>	<b>:</b>	<b>17.11.2020 @ 10:00 hrs.</b>

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

**SCHEDULE - A**

Name of Work: **Annual Maintenance contract for Colour washing, Distempering, painting etc., for buildings in 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: 013 / 20 - 21** for a period of **15 (Fifteen) 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, Tiruchirappalli - 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. 20,000.00** 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>Rate Shown in Bill of Quantities (Excluding GST) = 100%</b>		

**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.**

**CIVIL ENGINEERING DEPARTMENT - TOWNSHIP  
BHEL / TRICHY-620 014**

**BILL OF QUANTITIES**

**Name of work : Annual Maintenance contract for Colour washing, Distempering, painting etc., for buildings in BHEL Township-Trichy.**

S R Item	DESCRPITION	Unit	RATE (Rs)
0815A	White washing on surfaces using best shell lime to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour etc., complete. Three or more coats	M2	10.55
0815B	White washing on surfaces using best shell lime to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour etc., complete. Two coats	M2	5.95
0815C	White washing on surfaces using best shell lime to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour etc., complete. One coat	M2	4.25
0816A	White washing on surfaces using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete. Three coats	M2	11.55
0816B	White washing on surfaces using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete. Two coats	M2	7.00
0816C	White washing on surfaces using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete. One coat	M2	4.25

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S R Item	DESCRPITION	Unit	RATE (Rs)
0817A	Colour washing such as green, blue or buff on surfaces to give an even shade including cleaning, brushing walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, etc., complete. Two or more coats with a base coat of white washing with lime	M2	13.70
0817B	Colour washing such as green, blue or buff on surfaces to give an even shade including cleaning, brushing walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, etc., complete. Two coats	M2	7.80
0817C	Colour washing such as green, blue or buff on surfaces to give an even shade including cleaning, brushing walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, etc., complete. One coat	M2	4.55
0818	Removing white or colour wash by scraping, sand papering and preparing the surfaces smooth including necessary repairs to scratches etc. complete.	M2	5.50
0819	Applying one coat of cement primer of approved brand and manufacturer on wall surfaces.	M2	29.25
0820A	Painting walls with water proofing cement paint of approved brand and shade on surfaces to give an even shade including cleaning, preparing the surfaces, curing etc., complete. Three coats ( A priming coat of cement primer & two coats of water proofing cement paint )	M2	76.75
0820B	Painting walls with water proofing cement paint of approved brand and shade on surfaces to give an even shade including cleaning, preparing the surfaces, curing etc., complete. Two coats	M2	47.50
0820C	Painting walls with water proofing cement paint of approved brand and shade on surfaces to give an even shade including cleaning, preparing the surfaces, curing etc., complete. One coat	M2	30.00
0821C	Painting with sandtex matt of approved brand and shade on surfaces to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. One coat	M2	46.45
822	Applying one coat of distemper primer of approved brand and manufacture on wall surfaces.	M2	30.35

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S R Item	DESCRPITION	Unit	RATE (Rs)
0823A	Distempering using oil bound washable distemper of approved brand and shade on surfaces including cleaning, brushing, preparing the surfaces even and sand papered smooth in accordance with standard specifications. Three coats (A priming coat with approved primer and two coats of distempering).	M2	70.55
0823B	Distempering using oil bound washable distemper of approved brand and shade on surfaces including cleaning, brushing, preparing the surfaces even and sand papered smooth in accordance with standard specifications. Two coats	M2	40.20
0823C	Distempering using oil bound washable distemper of approved brand and shade on surfaces including cleaning, brushing, preparing the surfaces even and sand papered smooth in accordance with standard specifications. One coat	M2	27.35
0824A	Painting with ready mixed plastic emulsion paint of approved brand and shade on surfaces to give an even shade including thorough scraping, removal of dirt, applying necessary plaster of Paris, putty etc. Complete, all as per standard specifications. Three coats (A priming coat with approved primer and two coats of plastic emulsion paint).	M2	85.90
0824B	Painting with ready mixed plastic emulsion paint of approved brand and shade on surfaces to give an even shade including thorough scraping, removal of dirt, applying necessary plaster of Paris, putty etc. Complete, all as per standard specifications. Two coats	M2	55.55
0824C	Painting with ready mixed plastic emulsion paint of approved brand and shade on surfaces to give an even shade including thorough scraping, removal of dirt, applying necessary plaster of Paris, putty etc. Complete, all as per standard specifications. One coat	M2	37.55
0825A	Painting with synthetic enamel paint of approved brand and shade on surfaces to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Three coats (A priming coat with approved primer and two coats of synthetic enamel paint).	M2	97.90
0825B	Painting with synthetic enamel paint of approved brand and shade on surfaces to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Two coats	M2	67.55

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S R Item	DESCRPITION	Unit	RATE (Rs)
0825C	Painting with synthetic enamel paint of approved brand and shade on surfaces to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. One coat	M2	43.55
0826	Removing dry or oil bound distemper / water proofing cement paint / paint by scraping, sand papering and preparing the surfaces smooth including necessary repairs to scratches etc., complete.	M2	7.25
0830A	Painting with black anti corrosive bit mastic paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. Two coats.	M2	45.55
0830B	Painting with black anti corrosive bit mastic paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. One coat	M2	30.60
0831A	Painting with black board paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. Two coats.	M2	59.85
0831B	Painting with black board paint of approved brand and manufacture on surfaces to give an even shade, all as per standard specifications. One coat	M2	38.75
0832A	Lettering with paint of approved brand, shade and manufacture of 1 cm Height. In synthetic enamel paint	EA	1.90
0832B	Lettering with paint of approved brand, shade and manufacture of 1 cm Height. In black japan paint	EA	1.85
0837	Providing black board in walls in cement mortar 1:2 mixed with black oxide over rough plastered surfaces in cement mortar 1:4, 12 mm thick and providing 25 mm border all-round in cement mortar 1:3, neatly rounded etc. complete. Cement Consumption 13.20 K.G/SQM	M2	206.35
0838	Repairs to plaster of thickness 12 to 20 mm in patches of area 2.5 Sqm and under with cement mortar 1:4 including cutting the patches in proper shape, preparing and plastering the surface of the walls completely including disposal of rubbish within a lead of 50 meter. Cement Consumption 6.95 K.G/SQM	M2	145.35
0839	Removal of all nails, screws, wooden plugs etc. from the walls, chipping the plastering of small holes caused by removal, cleaning and finishing good the same with cement mortar etc. complete in Quarters.	EACH	107.30

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S R Item	DESCRPITION	Unit	RATE (Rs)
0840A	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of Paris and putty wherever required, labour and all incidentals etc. Complete. Three coats (One coat of Primer of approved brand with two coats of Paint)	M2	74.80
0840B	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of Paris and putty wherever required, labour and all incidentals etc. Complete. Two coats	M2	62.05
0840C	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of Paris and putty wherever required, labour and all incidentals etc. Complete. One coat	M2	39.85
0841A	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on STUCCO/EXPOSED AGGREGATE surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of Paris and putty wherever required, labour and all incidentals etc. Complete. This is applicable only for STUCCO/EXPOSED AGGREGATE surfaces. Three coats (One coat of Primer of approved brand with two coats of Paint)	M2	94.50
0841B	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on STUCCO/EXPOSED AGGREGATE surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of Paris and putty wherever required, labour and all incidentals etc. Complete. This is applicable only for STUCCO/EXPOSED AGGREGATE surfaces. Two coats	M2	75.35
0841C	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on STUCCO/EXPOSED AGGREGATE surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of Paris and putty wherever required, labor and all incidentals etc. Complete. This is applicable only for STUCCO/EXPOSED AGGREGATE surfaces. One coat	M2	48.70

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S R Item	DESCRPITION	Unit	RATE (Rs)
0842B	Painting with Epoxy paint (two or more coats) at all locations, prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surfaces etc. Complete. On concrete work	M2	97.50
0843	Extra charges for plastering to exterior walls of height more than 13.50 metre from plinth level for every additional height of 3 metre or part thereof.	M2	30.90
0844	Extra charges for plastering to spherical ceiling.	M2	56.70
0845A	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminium paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For one priming coat with primer	M2	22.30
0845B	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminium paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For three coats (A priming coat & two coats of painting or directly three coats of painting)	M2	59.45
0845C	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminium paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For Two coats of painting	M2	37.10
0845D	Labour charges for painting with primer/plastic emulsion paint/synthetic enamel paint/aluminum paint/anti corrosive bitumastic paint/black board paint/chlorinated rubber paint or any other paint on required surfaces to give an even shade including scraping, cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. Rate excludes cost of primer and paint. Required primer and paint will be issued by BHEL at stores at free of cost. For one coat of painting	M2	26.20

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S R Item	DESCRPITION	Unit	RATE (Rs)
0846	Applying two coats of Alltek Superfine (interior plaster) putty to a thickness of 2mm over plastered surface including sand papering and preparing the sur-face smooth and there after applying one priming coat of Alltek primer and two coats of plastic emulsion paint of approved brand and shade, all as per instructions of Engineer-in-charge.	M2	289.20
0225	<p>Labour charges for attending to spalling of concrete in ceiling of buildings. Scope of step by step activities are given:-</p> <p>i) Removing the loose concrete / plaster by knocking with a 2 lbs hammer, scrapping with steel wire brush and exposing the sound concrete.</p> <p>ii) Removing the rust in reinforcement by scraping with steel brush.</p> <p>iii) Washing the concrete surface and reinforcement. (By jetting water)</p> <p>iv) Applying passivate coat (2 K.G cement &amp; 1 Lit. Ruff bond repair) on rusted reinforcement and bond coat using CM 1:3 &amp; Roff bond repair (5 K.G cement &amp; 1 Lit. Roff bond repair) in layers of 6 mm thick to match with the existing surface. Roff bond repair mix shall be prepared in the proportion as directed by Engineer-in-charge.</p> <p>OR</p> <p>Applying rust primer on the steel and Mari Crete mix to the surface to be at-tended to by adding water in proportion as directed by Engineer-in-charge in layers of 6 mm thick to match with the existing surface.</p> <p>v) Finishing the surface with clean trowel. Note:-</p> <p>i) Cement &amp; the said chemicals will be supplied by BHEL at Stores at free of cost.</p> <p>ii) Rate includes scaffolding, tools, labour, incidentals etc. complete.</p>	M2	115.50
1001A3	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. Old plastering / skirting raking out joints / chipping the concrete and roughening the surface.	M2	14.15
0806	<p>Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications.</p> <p>Cement Consumption - 3.67 K.G/SQM</p>	M2	82.10

Mentioned rates excludes GST %

Note:

1. Actual Bill of Quantities (Items with quantity to do the work) will be provided in the sub work order only.

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