

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

TENDER DOCUMENT (PRICE BID)

Name of work : Water proofing treatment in newly constructed under ground sump (11x8.5x3.5m capacity Apx.) at Building 50, AUSC works

Value of work : **Rs. 2.14 Lakhs** + Applicable GST

Tender Schedule No. : CF:TS:016/19-20

Period of Contract : **1 (One) Month**

EMD : **Rs. 4290/-**

Issued to :

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

SCHEDULE - A

Name of Work: Water proofing treatment in newly constructed under ground sump (11x8.5x3.5m capacity Apx.) at Building 50, AUSC works

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 **CF:TS:016/19-20 for a period of 1 (One) Month** 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 carryout 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. 4290/-** 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 total provided in Bill of Quantities appended below from Page 03	
		In Figures	In Words
1.	Rs. 2.14 Lakhs (Excluding GST) = 100%		

CONTRACTOR

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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 : Water proofing treatment in newly constructed under ground sump (11x8.5x3.5m capacity Apx.) at Building 50, AUSC works

Specification					
ITEM NO	DESCRIPTION	Qty	Units	BHEL Rate	Amount
10	<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to newly constructed underground RCC water tank etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. Scope also includes providing staging for working at site if required.</p> <p>For Vertical surface two coats @ 0.70 kg per SQM.</p>	165.00	SQM	552.27	91124.55

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20	<p>Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to newly constructed underground RCC water tank etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. Scope also includes providing staging for working at site if required.</p> <p>For Horizontal surface one coat @ 1.10 kg per SQM.</p>	110.00	SQM	425.68	46824.80
30	<p>Drilling pockets and fixing PVC Nipples in position along weak concrete junctions and leakage points in walls/floor and pressure grouting CERA EXPAN 250 / TEC SWELL/Sika INTRA PLAST/NACC EXPAN / Dr. FIXIT PIDICRETE AM 250 expansive grouting additive admixed with cement slurry using hand operated grouting pump. The scope also includes plugging the grout hole with CERA PLUG/TEC STOP / Sika HYDRO PLUG / NACC PLUG / Dr. FIXIT INSTANT LEAK PLUG .All as per manufacturer's recommendations/ standard specifications and instructions of Engineer- in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges except cement which will be issued free of cost at BHEL stores.</p>	425.00	Point	143.71	61076.75

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40	Protective Plastering with cement mortar as per standard specifications. In cement mortar 1:3, 12mm thick over water proofing treatment.	165.00	SQM	91.94	15170.10
	Total =				214196.20
	BHEL estimate total (100%)				Rs. 2.14 Lakhs.

Mentioned rates excludes GST%

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