



TENDER DOCUMENT

For Works Contract

For Tender Enquiry No. : **TCX/TW/21/05**

For

“(Waterproofing treatment on roofs at type IV, V and above quarters in township area.)”

Contact Person:

Name: Anshuman Sharma
Designation: Dy. Mgr (CLC)
Email: anshuman.sharma@bhel.in
PHONE: 0510-2412784

Or

Name: P B S Ekka
Designation: AGM (CLC)
Email: pbsekka@bhel.in
PHONE: 0510-2412549

Tender Due Date : 28.09.2021 at 13 :15 Hrs
Tender Opening Date : 28.09.2021 at 14 :00 Hrs

Rev	Short details of revision (In case of revision in tender document, otherwise NA)
Date:	

Township Civil Department
BHEL, PO: BHEL, Jhansi 284120 (UP)



Bharat Heavy Electricals Limited, Jhansi

Department: Township Civil

Tender Enquiry No: TCX/TW/21/05 date: - 06.09.2021

TD: 2021-22, Rev- 00

DETAILS OF TENDER DOCUMENT

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BHEL JHANSI is in the process of finalizing the Works Contract for *Name of Work:- Waterproofing treatment on roofs at type IV, V and above quarters in township area* The duly filled in Technical and Price / Rate bids (Annexure I and M, separately) along with the instructions to the tenders, Contractor's Obligations, General Terms and Conditions with the signature of the tender on all the pages and complete in all respects super scribed as "Quotation for Tender No. TCX/TW/21/05 DATED- 06.09.2021" should reach us in a sealed cover on or before **28.09.2021 (13.15 hours)** through Registered / Speed post or the same may be dropped in the tender box available at the following address:

To

Tender Box

CISF Control Room/Office

Administrative Building

Bharat Heavy Electricals Limited

Jhansi-284 120. UP

Note: 1) Dropping of tender in the Tender Box within schedule time and date is the responsibility of the bidder.

2) Technical bid and price bid should be submitted in separate sealed envelopes, in case the bids founds in one single envelope then the "bids" are liable to be rejected.

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Annexure -A

NOTICE FOR INVITING TENDER

S. No	Particulars	Details
1	Brief Description of work	Name of Work: - Waterproofing treatment on roofs at type IV, V and above quarters in township area
2	Tender Evaluation Criteria	<i>(QR as per Annexure C), Awarding on overall L1 basis</i>
3	Duration of Contract	<i>12 month</i>
4	Last date of Sale of the Tender	<i>Upto 11:00 hrs on 28.09.2021</i>
5	Last date of receipt of the Tender	<i>Upto 13:15 hrs on 28.09.2021</i>
6	Date of opening of Techno – Commercial Bid.	<i>14:00 hrs on 28.09.2021</i>
7	Address for submitting the Tender	Tender Box CISF Control Room/Office Administrative Building
8	Earnest Money Deposit * (EMD)	<i>Rs. 6796.00</i>
9	Cost of Tender	<i>Nil</i>
10	Validity of Offer	<i>120 Days</i>
11	Security Deposit	<i>5 % of Contract value</i>

Note:

The EMD may be accepted only in the following forms:

(i) Electronic Fund Transfer credited in BHEL account (before tender opening)

BHEL account details: Bank Name:- SBI; A/c NO. : - 10670828866; ifs Code:-

SBIN0003807 A/c Holder Name:- BHARAT HEAVY ELECTRICALS LIMITED

The Tender cost may be accepted either by credited through **RTGS/NEFT/EFT/IMPS/ECS** or deposited by pos machine in cash section in BHEL ADM Building. The contractors may physically visit the work place before quoting their rates. For relevant details please visit our website **“www.bhel.com” & www.eprocure.gov.in.**

Annexure B

WORK SPECIFICATION/SCOPE OF WORK

DETAILS OF WORK

S.NO	DSR 2016 Ref	Description	Unit	Quantity
1	1.1.1/68	Carriage of building rubbish	Cum	30.00
2	5.1.3/97	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.....1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	15.00
3	5.3/97	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand	Cum	25.00
4	5.22.6/100	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg.	200.00
5	11.3.1/191	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 11.3.1 40 mm thick with 20 mm nominal size stone aggregate	Sqm	50.00
6	12.21.1/211	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : 12.21.1 In 75x75 mm deep chase	Mtr	150.00
7	15.26/255	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	240.00
8	15.27/255	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	Cum	20.00
9	15.56/258	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	150.00

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10	22.10/383	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade I (fibre base self finished bitumen felt) six and final courses of stone grit 6 mm and down size or pea sized gravel spread at 6cu.dm per sqm including preparation of surface, excluding grading, compete.(3 mm thick)	Sqm	100.00
11	22.14.1/384	Grading roof for water proofing treatment with.....Cement concrete 1:2:4 (1 cement : 2 coarse sand :4 graded stone aggregate 20 mm nominal size)	Cum	22.00
12	22.14.2/384	Grading roof for water proofing treatment with.....Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	15.00
13	22.20.1/386	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM,	Sqm	100.00
14	22.21/386	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded tothe membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	Sqm	36.00
15	4.12/9	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Per bag of 50 kg cement used	360.00
16	Any or all item not covered above	Basic value	10000.00

QUALIFYING REQUIREMENTS

- 1) Average Annual financial turnover during the last 3 years, ending 31st March 2021, should be at least **Rs.1.02 Lakh** duly audited financial statement/balance sheet/certified by CA to be submitted as supporting documents. If all balance sheet/financial statement are not available for three years than the average shall be calculated by dividing the sum of turnover of submitted balance sheet/certificate from CA/Financial statement by three.
- 2) Experience of having successfully completed similar works during last 7 years ending "on last day of previous month when tender is uploaded" should be either of the following:-
 - a. Three similar completed works each costing not less than the amount equal to **Rs. 1.36 Lakhs.**
 - Or
 - b. Two similar completed works each costing not less than the amount equal to **Rs. 1.70 Lakhs.**
 - Or
 - c. One similar completed work, each costing not less than the amount equal to **Rs. 2.72 Lakhs.**

Similar work means: -: All type of civil construction/renovation/maintenance /waterproofing works.

Documentary proof (Execution Certificate/LOI/Work order) for the experience to be submitted along with Technical Bid. In case of experience in Private Sector, relevant TDS Certificate (TRACES Only) must be attached as evidence.

Other Essential Documents-

- 3) Should have PAN.
- 4) Contractor should have GST No. (PAN based)
- 5) Should have independent ESI Code number.
- 6) Blank Price Bid (JS 472) as per annexure "G".
- 7) Filled up, sealed and signed copy of Annexure V of the Tender Enquiry.
- 8) The documents required for legal entities under whose name and style Contractor has participated in the tender are as follows:
 - (i) Partnership Firm: Partnership Deed registered at the office of Registrar of Firms.
 - (ii) Company: Certified copy Memorandum of Association, Article of Association and Incorporation Certificate.
 - (iii) Society: Registration certificate issued by Registrar of societies.
 - (iv) Sole Proprietor-ship Firm: Undertaking on oath (Rs. 100 stamp paper) that Proprietor is solely responsible for all rights and liabilities while working under the name and style of Sole Proprietorship firm namely ().



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Annexure –D

GENERAL TERMS AND CONDITIONS OF ENQUIRY (JHS 2055C R00)

UPLOADED IN SPERATE FILE -PAGE NO 01 TO 14

(To be signed by contractor and submitted along with bid.)

SPECIAL CONDITIONS OF CONTRACT FOR WORK

1. **Location of Site** – BHEL Jhansi Township. The contractor is advised to visit the site and meet the officials of TCX department for any clarifications before quoting their rates for the work.
2. **Time allowed for completion of work** – 12 months.
3. **Defect Liability period** – **5 Years after completion of W.O. date.**
4. **Payment Terms** – Measurement of completed work to be done monthly and bill to be submitted by Contractor to department by 8th of next month. Payment will be done as per GTC Clause (X) (6).
5. **Penalty for delayed work** – **Since this is work of maintenance nature, fixed number of milestone can not be set. The penalty condition will be as follows-**
 - The contractor will have to complete work at any site/ building given to them within 15 days of written instruction given by BHEL official.
 - If contractor fails to ensure above condition, the penalty will be imposed on contractor as per GTC clause no.(X)-4
6. **PVC & ORC - Not applicable**
7. **Taxes & Duties** - The contractor shall submit their offer inclusive of all duties, royalty, entry tax etc except GST. If GST is applicable for the work, the contractor shall claim GST extra as per actual over the quoted price of the work. However the contractor must make payment of GST before claiming the same from BHEL
8. **Award of work** – The bidder must quote the total package price for the work and not the individual item rates in the price bid. The % allocation of each item has been specified and the individual item rates will be determined based on this % allocation from the total price quoted. The work will be awarded to overall lowest bidder who has submitted the lowest total price for the work
9. **The above contract will be covered under the BHEL CONCILIATION SCHEME, 2018.**
10. ~~The contractor shall obtain registration from Zila Panchayat registration certificate for every financial year for which the contract is in effect and successful tenderer will submit to department within 15 days of award of work.~~
11. Work Inspection shall be done by BHEL representative and payment shall be made on the basis of measurement only as per unit given in schedule. The contractor or his supervisor /authorized person will maintain a register and record the work / measurement immediately and get verified the satisfactory completion of work by BHEL personnel.
12. The contractor will be fully responsible for the preparation of bill and submission to Engineer-in-charge.
12. The measurements of completed works and preparation of bill's related procedure will be govern by as per CPWD norms and guidelines. Contractor will comply with all CPWD's Norms, specifications, and guidelines related to work execution and billing.
13. Final bill shall be prepared within 3 months after successful completion of work in the Performa prescribed for the purpose, based on the certificate issued by the Engineer

that the entire work as stipulated in the tender Specifications has been completed in all respect to the entire satisfaction of BHEL. The Contractor shall give unqualified 'No claim' and 'no demand' certificate. The abstract of final quantities and financial values shall also be entered in the measurement book and signed by both the parties. The final bill shall be paid within a reasonable time after completion of the work. After the payment of final bill, only the guarantee obligation percentage value (Security deposit) shall remain unpaid, which will be released after completion of defect liability period on submission of no-dues certificate.

14. The BHEL General Conditions of contract shall form an integral part of this contract. (The BHEL General condition of contract may be seen in civil Office).
15. The Special Conditions of Contract (SCC) shall have overriding priority over General Conditions of Contract (GCC). Whenever there is any contradiction between the GCC and SCC, the SCC shall be treated as final.
16. The contractor shall take necessary precautions for the safety of his workmen and provide them with all safety equipment like gloves, gum-boots etc as per requirement. BHEL shall not be liable to pay any additional amount on account of any safety equipment / PPE.
17. The contractor shall take proper care to avoid any damage to BHEL property. If any damage does take place, the contractor will be fully responsible for the same. The decision of Engineer in charge in such case shall be final and binding on contractor.
18. The contractor will follow all safety rules required in connection with execution of such type of works.
19. The contractor will provide the all safety equipment i.e. safety shoes, safety belt, goggle and all other equipment which are direct related to work execution at own his cost.
20. The workers should be trained enough for the work.
21. No minor worker will be allowed to work.
22. The contractor shall be wholly responsible for the behavior of his workmen with the official staff.
23. All tools & tackles, ladder & machinery required for the work execution shall be arranged by contractor on his cost.
24. The contractor will be fully responsible to follow the instruction related to works, given and recorded by department in "Site order Book" and will be signature by him daily against recorded instructions in "Site Order Book" at department.
25. Water will be supplied at one point by BHEL. Water charges @ 1 % of gross bill amount shall be recovered
26. Electric power at site will be provided free of cost for concrete work and lighting by BHEL at the written request of the contractor at one point subject to the observance of rules and regulations of Electric board / company free of cost. If it is observed that power is being wasted, BHEL shall have the right to recover cost of such consumption including arrears. Power will not be allowed for cooking and room (air) heating in winter season: For this purpose, on written application chargeable power can be allowed. The rates shall be the rates applicable for industrial consumption in U.P.
27. **It is mandatory that all consumable building material i.e. sand, stone aggregate, Tiles, paint and other required material to be use after prior approval of Engineer-in-charge.**

28. **Cement wastage @ 3%** of total issued quantity shall be permissible. Beyond this recovery shall be made at double the issue rate for cement.
- 29.. If the total quantity of 90% empty cement bags is not returned by the contractor, the same will be recovered at the rate of Rs 3/- per bag from the bills.
30. Test certificate for all materials to be made available by the contractor as per direction of Engineer-in –charge including strength of concrete cubes, bricks, aggregates. And any other materials provided by contractor at his cost.
31. RECOVERY FOR LAND & BUILDING RENT ISSUED TO CONTRACTOR ON DEMAND & AVILABILTY.

Sl.No.	Description	Recovery Rate
1	Open land for labour stay.(For temporary arrangements.)	Rs. 5.00/ sqm
2	Store building (if available) or land for store (for temporary arrangements).	Rs. 25.00/ sqm –plinth area
3.	Resident building –only X type or Type 2.	As per applicable BHEL RULES and guidelines.

32. Material issued to Contractor

S.No.	Particulars	Rate at which material will		Quantity	Place of issue
		Unit			
1.	Cement Bags (50 KG)	Bag	Free of cost	As per requirement	Factory Civil store

33. All rates as mentioned in price bid are excluded of cement cost.

34. The quantity of individual item mentioned in BOQ may vary up to any extent as per requirement with restriction of awarded value of work of BHEL and the contractor shall not be liable for any claim of compensation on this account

Annexure'F'

Technical Bid Qualifying criteria & check list

S. No	Particulars Details	Pease tick (v)	Number / Details of enclosures
01	Name of the Firm (Document as per Sr. No. 2 of Qualifying Requirements)		
02	Name of the Proprietor/Partners		
03	Address and Contact Numbers		
04	Firm Registration Number if applicable (Copy of Certificate)		
05	Labour license Number (Copy of Certificate)		
06	ESI Code Number (Copy of Certificate)		
07	PF Code Number (Copy of certificate)		
08	PAN/TAN Number (Copy of PAN/TAN)		
09	GSTIN (PAN BASED) (Copy of certificate)		
10	Self-Declaration as per Annexure-V		
11	Balance Sheet along with Copy of Audited Financial annual statement by CA for last three financial years ending 31.03.19 as per tender		
12	Experience Certificate (Along with necessary enclosures as per tender to be submitted)		
13	No of Workers including supervisors on the rolls of the firm		
14	Committed Capacity against our tendered quantity in %		
15	Earnest Money Deposit a) DD No/MR No. & Date b) Drawn On (Bank)		
16	Any Other relevant Information		
17	Validity of Offer (At least 120 Days from the date of tender opening)		
18	Blank Price Bid Format		
19	E-Mail and Mobile Numbers		

Bharat Heavy Electricals Limited, Jhansi

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Signature with Name
& Office Seal

Annexure -G

BLANK PRICE BID (JS 472)

a. Name of the firm : _____

S.NO	DSR 2016 Ref	Description	Unit	Quantity	Rate without cement DSR 2016	Amount (Rs.) without cement
1	1.1.1/68	Carriage of building rubbish	Cum	30.00	78.68	2360.40
2	5.1.3/97	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..... 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	15.00	3526.24	52893.60
3	5.3/97	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand	Cum	25.00	46.10.4	115260.00
4	5.22.6/100	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	200.00	49.62	9924.00
5	11.3.1/191	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat	Sqm	50.00	244.5	12225.00

		cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 11.3.1 40 mm thick with 20 150.00mm nominal size stone aggregate				
6	12.21.1/211	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : 12.21.1 In 75x75 mm deep chase	Mtr	150.00	128.80	19320.00
7	15.26/255	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	240.00	45.70	10968.00
8	15.27/255	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	Cum	20.00	373.95	7479.00
9	15.56/258	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	150.00	22.40	3360.00
10	22.10/383	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade I (fibre base self finished bitumen felt) six and final courses of stone grit 6 mm and down size or pea sized gravel spread at 6cu.dm per sqm including preparation of surface, excluding grading, compete.(3 mm thick)	Sqm	100.00	491.58	49158.00

11	22.14.1/384	Grading roof for water proofing treatment with.....Cement concrete 1:2:4 (1 cement : 2 coarse sand :4 graded stone aggregate 20 mm nominal size)	Cum	22.00	3366.95	74072.90
12	22.14.2/384	Grading roof for water proofing treatment with.....Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	15.00	5778.54	86678.10
13	22.20.1/386	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM,	Sqm	100.00	367.78	36778.00
14	22.21/386	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per	Sqm	36.00	68.24	2456.64

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		manufactures recommendation.				
15	4.12/90	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Per bag of 50 kg cement used	360.00	41.73	15022.80
16	Any or all item not covered above	Basic value	10000.00	1.00	10000.00
Section Total A						507956.44
Section Weightage percentage						100.00%
Quoted Section amount Sec A (derived) from the Quoted Total Price Bid value						0.00
Section Multiplying Factor						0.0000000000
Total Amount To be quoted by Contractor (in figure)						XXXXXXXXXX

Amount in Words:-XXXXXXXXXXXXX.....

GST EXTRA AS APPLICABLE

NOTE – Contractor must not quote Amounts in this Blank Price Bid. This document must be submitted along with Techno-commercial bid.

Explanatory Note for calculating Quoted Rates of individual items of each section and billing method

1. For each section the weightage percentage has been specified as per above.
2. Contractor only has to quote the total price bid value for the contract
3. The amount quoted by the contractor will be distributed in the 1 sections as per the weightage of that Section. The amount allocated to each section will be called as **Quoted Sectional Amount**

4. The sectional multiplying factors for each section will then be calculated as follows:

Sectional Multiplying Factor = (Quoted Sectional Amount)



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Sectional Total of that Section as mentioned in Price Bid

5. The rates of the individual items in any section will be determined by the following formula-

$$\text{Actual Item rate} = (\text{Sectional Multiplying Factor}) \times (\text{Item rate})$$

6. To eliminate possibility of rounding off errors in **Actual item rates**, the billing shall be done by first calculating the amount derived by obtaining the quantity executed with the Item Rates and then the **total amount of each section will be multiplied** with the **Sectional Multiplying Factor**.

Annexures (I-IX)

UPLOADED IN SPERATE FILE -PAGE NO 01 TO 14

(To be signed by contractor and submitted along with bid.)



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Format JS 146 - Price Bid Sheet (in a separate envelope)

UPLOADED IN SPERATE FILE (1 Page)