



**BHARAT HEAVY ELECTRICALS LIMITED
TRANSFORMER PLANT, JHANSI
TOWNSHIP CIVIL DEPARTMENT**

Tender Enquiry No: TCX/TW/23/03 Date: - 07/07/2023

TD: 2023-24, Rev- 00



TENDER DOCUMENT for Works Contract

For Tender Enquiry No.: TCX/TW/23/03

For

“Miscellaneous Routine Repair and Maintenance works in the Township Premises of BHEL TP Jhansi”

Contact Person:

Name : Ms Monika

Manager (CCC)

Email : monikav@bhel.in

PH : 0510 – 2770001(Extn 2414)

Tender Due Date : 18/ 07 /2023 at 13 :15 Hrs

Tender Opening Date : 18 /07/2023 at 14 :00 Hrs



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**Material Management Department
BHEL, PO : BHEL, Jhansi 284120 (UP)**

Detail of Bidder and Documents to be submitted along with Technical Bid

Please number your documents in continuation with tender documents at bottom (footer) of page.

S.No.	Particular	Detail	
1.	Name of the firm		
2.	Name of the Proprietor/Partners		
3.	Address		
4.	Mobile No.		
5.	E-mail ID		
Essential Documents			
	Particular	Detail	Page No
6.	Acceptance of Terms & conditions Signature on all pages without conditions of contractor	Submitted/ Not submitted	
7.	Copy of PAN card	PAN No-	
8.	Copy of GST registration	GST No-	
9.	Self declaration as per as per annexure V of GTC .	Submitted/ Not submitted	
10.	Copy of ESI Registration	ESI No-	
11.	Blank price bid format duly signed by the contractor.	Submitted/ Not submitted	
12.	Work Experience i. Work Order ii. Completion Certificate iii. Bill of Quantity Relevant TDS/TRACES Certificate must be attached as evidence.	Submitted/ Not submitted	



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	In case experience is submitted for work done in BHEL Jhansi, TDS/Tax invoice is not required.		
13.	Copy of turn over and income tax return for last three year i. 2020-21 ii. 2021-22 iii. 2022-23	Submitted/ Not submitted	
14.	Reciept of EMD deposition	Amount:	
15.	Copy of ownership of firm	Submitted/ Not submitted	
16.	Self-declaration to avoid cartel formation on their letter head as per the Format enclosed in Annexure A.	Submitted/ Not submitted	
17.	Reciept of tender fees deposition	Amount	
18.	Copy of PF registration	PF No-	

We will fulfill all the obligations of the contract and abide by the terms & Conditions mentioned in the enquiry.

Date : -

Signature With Name & Seal



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PART II: PRICE BID

(Separate envelope)

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NOTICE INVITING TENDER





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NOTICE INVITING TENDER

S. No.	Particulars	Details
1.	Name of work	Miscellaneous Routine Repair and Maintenance works in the Township Premises of BHEL TP Jhansi
2.	Tender Evaluation Criteria	As per GTC issued by "Central Contracting Cell" and Tender Documents.
3.	Duration of the Contract	03 months from the date of issue of Work Order
4.	Last date of receipt of the Tender	(As on page # 1)
5.	Date of opening Tender	(As on page # 1)
6.	Address for submitting the tender	(As on page # 7)
7.	Earnest Money Deposit (EMD)	Rs. 7010 /-
8.	Cost of tender (Non refundable)	Rs. Nil
9.	Validity of Offer	120 days from the date of Techno- commercial (Part-I) bid opening date
10.	Defect liability period	01 years from the date of actual completion of work.
11.	Reverse Auction	RA will not be conducted for this tender

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

(ii) At BHEL cash office through POS machine **No Demand Drafts shall be accepted.**

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"

Note: BHEL takes no responsibility for any delay / loss of documents or correspondence sent by courier or post. Late tenders shall be rejected outright.

The techno-commercial bid comprising (i) all its sections, (ii) all enclosures in support of various clauses and requirements and (iii) EMD, shall be duly signed and placed in a sealed envelope boldly super-scribing "Miscellaneous Routine Repair and Maintenance works in the Township Premises of BHEL TP Jhansi".



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Similarly, the Price-bid must be duly signed and placed in a sealed envelope boldly super-scribing **"PART-II PRICE BID FOR "Miscellaneous Routine Repair and Maintenance works in the Township Premises of BHEL TP Jhansi "**.

Both these envelopes shall be placed inside 3rd sealed envelope duly signed super-scribing boldly **"Miscellaneous Routine Repair and Maintenance works in the Township Premises of BHEL TP Jhansi "and** sent in a sealed envelope.

The tender shall be addressed to as follows:

Ms Monika
Manager (CMM)
Email : monikav@bhel.in
PH : 0510 – 2770001 (Extn 2414)
Sealed Tenders can be submitted (i) personally, (ii) by Courier, or (iii) by post.

If submitted personally

Tender Box
Security Control Room/Office
Administrative Building
Bharat Heavy Electricals Limited
Jhansi-284120 (U P)

Or if sent through Courier / Post

Office of
Ms Monika
Manager (CMM)
Material Management Department
Email : monikav@bhel.in
BHEL, JHANSI - 284120
PH : 0510 – 2770001 (Extn 2414)

Part-I Techno Commercial bid:

Part I of the sealed tenders alone will be opened by BHEL in the presence of tenderers who are present at the time & place of opening. A signed blank price-bid copy should be enclosed with this bid. The spaces for prices should be crossed (x)

Part-II Price bid:

The price bid should contain prices only. Price bid will be opened only for the parties who qualify in techno commercial bid.

TO BE SIGNED BY THE TENDERER

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We hereby accepted above (signature & seal of bidder)

Seal & Signature of BHEL contracting authority



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Certified that all Sections of the Tender have been read / complied & agreed to, and each page of the tender offer has been signed & stamped.

(Signature of Authorized person(s))



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BRIEF DESCRIPTION OF WORK / SCOPE OF WORK

The work to be carried out has been divided in 04 different items of work and has been scheduled in the BOQ as below:

S.NO	Description	Unit	Quantity	%Allocation
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains, All kinds of soil (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	cum	13.00	0.3827130000%
2	Excavation work by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains, Ordinary rock (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.	cum	8.00	0.3904190000%
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	cum	5.00	0.1112360000%
4	Surface dressing of the ground including removing vegetation and in -equalities not exceeding 15 cm deep and disposal of rubbish lead unto 50 m and lift upto 1.5 m for all kinds of soil.	100sqm	14.00	0.0345490000%
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : "1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	cum	10.00	5.7242750000%
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum	9.00	5.1605520000%



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7	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing : 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	1.00	0.7670380000%
8	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	1.00	0.7723960000%
9	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 (zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	2.00	1.6313090000%
10	Centering and shuttering including strutting, propping etc. and removal of form for all heights :Foundations, footings, bases of columns, etc. for mass concrete.	sqm	15.00	0.4893930000%
11	Centering and shuttering including strutting, propping etc. and removal of form for all heights :Suspended floors, roofs, landings, balconies and access platform	sqm	17.00	1.2556150000%
12	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	4.00	0.2358120000%
13	Brick work with FPS bricks of (II nd class kanpur brick) upto plinth 1:6 (1 cement: 6 fine sand)	cum	10.00	6.9302110000%



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14	Brick work with FPS bricks of (II nd class kanpur brick) in Super structure 1:6 (1 cement : 6 fine sand) upto floor five level	cum	6.00	5.0404380000%
15	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	10.00	1.0001260000%
16	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5.00	2.9497940000%
17	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.40 mm thick with 20 mm nominal size stone aggregate	sqm	252.00	10.9005690000%
18	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	10.00	1.1243990000%
19	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete.	sqm	22.00	2.3956000000%



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20	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	sqm	37.00	6.0542120000%
21	Plaster -12 mm thick in 1:6 (1 cement : 6 fine sand)	sqm	48.00	1.1507150000%
22	Plaster -15 mm thick in 1:6 (1 cement : 6 fine sand)	sqm	48.00	1.3205220000%
23	Demolishing cement concrete including disposal of material within 50 meter lead (1:3:6)	cum	2.00	0.3527880000%
24	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	cum	3.00	0.4472920000%
25	Supplying at site :R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	cum	3.00	8.5138850000%
26	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. With G.I. barbed wire	meter	1210.00	1.5948490000%



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27	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mmthick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	315.00	30.6160630000%
28	All items of DSR 2016 but not covered above.	basic value	15000.00	2.6532310000%
Total				100.00000000%

The above scope of work is indicative and not exhaustive and will include any other activity apart from above necessary for completing the subject work and shall be covered under SI No 28.

Note :- It is also advised that the bidder shall visit the location of work and see the work area/areas in order to have visualization of the work content involved for the above work.



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QUALIFYING REQUIREMENTS

Sl No	Description of Requirement
1	Copy of PAN Card to be submitted.
2	Copy of GST Registration to be submitted.
3	Self-Declaration undertaking duly signed with stamp of the bidder on letter Pad of contractor to be submitted.
4	Copy of independent ESI Registration.
5	Signed copy of Blank Price Bid.
6	<p>Work Experience:</p> <p>Bidder should have experience of executed similar work during last 7 years ending the month previous to the month of issuing tender enquiry either of the following: -</p> <p>a. Three similar works each valuing not less than the amount equal to Rs. 1,40,206/- or</p> <p>b. Two similar works each valuing not less than the amount equal to Rs. 1,75,258/- or</p> <p>c. One similar works each valuing not less than the amount equal to Rs. 2,80,413/-</p> <p>Executed Similar Work means all type Civil construction/Maintenance /Renovation works of requisite value in any PSU / CPSU / State govt. / Central Govt./ Private sector.</p> <p>Documentary proof (Completion Certificate and WO/PO / LOI) for the experience performance report issued by Customer for successful execution of the requisite value to be submitted. In addition to above, relevant TDS Certificate must be attached as evidence.</p> <p>In case experience is submitted for work done in BHEL Jhansi, TDS/Tax invoice is not required.</p>
7	<p>Turnover criteria:</p> <p>Average Annual financial turnover during the last 3 years ending 31st March 2023, should be at least Rs. 1,05,155/- approx. (Bidder to attach audited balance sheet and Profit & Loss Account of last three financial years, ending 31st March 2023, or Certificate of CA as proof of financial T/o for respective years). If T/o details of 3 years are not available, then available years T/o shall be evaluated by dividing it by 3.</p> <p>Note-1: Benefits under MSMED Act: Being a work contract involving usage of incidental material, benefits under MSMED act will not be applicable under this contract.</p>



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	Note-2: Benefits under Start Up Scheme: Considering critical quality aspects and technical specification implications for the work, no relaxation shall be given to Start-up bidders on account of turnover criteria & prior experience.
8	Documentary proof in support of above eligibility criteria along with EMD shall be submitted along with Techno Commercial Bid. (EMD Rs. 7010/-)
9	<p>The documents required for legal entities under whose name and style contractor has participated in the tender are as follows:</p> <p>(i) Partnership Firm: Partnership Deed & registration certificate issued by office of registrar of Firms.</p> <p>(ii) Company: Certified copy Memorandum of Association, Article of Association and Incorporation Certificate.</p> <p>(iii) Society: Registration certificate issued by Registrar of societies.</p> <p>(iv) Sole Proprietor-ship: 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 (_____)</p>
10	Bidders are required to submit a self-declaration to avoid cartel formation on their letter head as per the Format enclosed in Annexure A .



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GENERAL TERMS AND CONDITIONS OF ENQUIRY (JHS 2055C R02)

UPLOADED IN SPERATE FILE -PAGE NO 01 TO 14

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



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SPECIAL TERMS AND CONDITIONS OF CONTRACT

1. **Taxes & Duties-** As per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell”
2. **Payment Terms-** As per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell”
3. **Bonus Clause-** As per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell”
4. **PVC-** Not Applicable
5. **ORC-** Not Applicable
6. **LD/ Penalty-** The LD/Penalty shall be as per GTC for Work Contracts (JHS2055C R02) issued by “Central Contracting Cell.
7. The total price of the package is to be quoted by the bidders. The total quoted amount by the L1 bidder for the package shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at Price Schedule.
8. The maintenance period for the above work shall be 01 years from the date of actual completion of work.
9. The quantity of items in the BOQ are only tentative and approximate and are liable for variation up to any extent provided the total value of the Contract does not vary by more than 30% (Thirty percent).
10. The Completion period shall be 03 months from the date of issue of work order.



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TECHNICAL TERMS AND CONDITIONS OF CONTRACT

1. The works shall be executed with the directions, instructions, which shall be given to the contractor by BHEL from time to time and as per technical specifications in price schedule and drawings available in the office to give a general idea of the work to be executed and is liable for modifications during the actual execution based on the designs prepared and approved by the Competent authority.
2. If the specifications found wanting relevant technical specifications along with the tender shall be followed. Further missing details relevant CPWD and IS specifications shall be followed. Wherever, there is difference in between CPWD and IS specifications latter shall prevail.
3. For execution of all scheduled items CPWD specifications and relevant IS codes are to be followed. For execution of non-scheduled items specifications enclosed with this tender are to be followed.
4. Specialized works are to be executed by specialized agency with the approval of BHEL.
7. The materials in the scope of contractor shall have to be got approved by the contractor from the Engineer-in-charge before supplying inside the factory area. Testing of these materials (If required) shall be carried out at any BHEL or Govt approved/NABL approved lab whose cost will be borne by the contractor.
8. Contractor shall ensure that quality is maintained in all works connected with this contract all stages as per requirement of BHEL. Contractor shall ensure all inspection, measuring and testing equipment are calibrated by authorized agency/BHEL and valid calibration must be available with them for verification by BHEL.
9. The contractor shall be fully and finally responsible for correctness and quality of his work to the entire satisfaction of the BHEL/Customer.
10. If in the opinion of the contractor any work is insufficiently specified or required modifications, the contractor shall refer the same in writing to the Engineer and obtain his instruction/approval in writing before proceeding with the work. If contractor fails to refer such instance, any excuse for faulty erection, for poor workmanship or delay in completion shall not be entertained.



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11. Material reconciliation statement has to be submitted by the contractor as & when required by BHEL.
12. The BHEL reserves the right to deviate either by additions or by deductions from the schedule of items of work given in the tender document after awarding work.
13. In case of any difference between agreement, wording and detailed drawings the interpretation of the BHEL shall be final and binding on the contractor.
14. The final acceptance of work in all items are subject to proper performance regardless of whether the items are paid for or not.
15. If discrepancy in specifications observed between schedule of quantities and general / technical conditions, the specifications in schedule of quantities will have precedence over the general / technical conditions.
16. The contractor will be fully responsible for the preparation of bill and submission to Engineer-in-charge.
17. Water will be supplied at one point by BHEL. Water charges @ 1 % of gross bill amount shall be recovered.
18. Quantity records shall be prepared, maintained and submitted by contractor on regular basis during the course of execution. Test records shall be prepared, maintained and submitted by contractor during the course of execution and as demanded by Engineer-In-Charge. Contractor shall strictly adhere to quality requirements and shall follow the norms mentioned in Field Quality Plan (if applicable).
19. In case of defective work BHEL will have full right to reject the work or part thereof. Such defective work if any, will have to be rectified by the contractor at his own cost. The opinion of Engineer in charge shall be final in this matter. If the defective work is allowed to stand BHEL shall have the absolute right to reduce the rates for such items and the contractor shall have no claims over such defective work allowed on reduced rates.
20. The empty cement bags (if any) shall be stocked at one place and at least 90% of them shall be returned to BHEL at BHEL stores in good condition without any additional payment. Therefore, 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.



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21. For all-natural minerals used in the work like sand, aggregate etc. royalty certificate (MM-11) must be submitted along with bills. If royalty certificate is not submitted the cost of royalty shall be deducted from contractors bill as per prevailing Govt. order including penalty as applicable.
22. Any electric power required for contractors' lighting/machinery for the purpose of work including fabrication work shall be supplied FREE OF COST at one point by the company on the written request of the contractor, subject to the observance of rules and regulations of Electric board / company. 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.
23. 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.
24. 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. The contractor will follow all safety rules required in connection with execution of such type of works. 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.
25. 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 and shall make good all such damage at his own risk and cost. The decision of Engineer in charge in such case shall be final and binding on contractor.
26. The workers should be trained enough for the work. No minor worker will be allowed to work.
27. The contractor shall be wholly responsible for the behavior of his workmen with the official staff.



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28. All tools & tackles, ladder & machinery required for the work execution shall be arranged by contractor on his cost. The rate quoted by the contractor shall include all such incidental charges.

29. The contractor will be fully responsible to follow the instruction related to works on daily/ requirement basis.

30. RECOVERY FOR LAND & BUILDING RENT (PER MONTH) ISSUED TO CONTRACTOR ON DEMAND & AVAILABILITY.

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.

31. ACCOUNTING

a. Proper method of accounting (if any) of steel, TOR steel, cement & scrap material shall be followed. The books of such accounting be offered for auditing by BHEL at pre-decided regular interval.

b. All debris and surplus materials shall be cleared from the site as and when directed by the Engineer-in-charge. Any temporary structure / stores made by the contractor for the work shall be demolished and site cleared before payment of final bill.

c. Structural steel (if any) wastage /scrap shall be permissible upto 2% of total quantity of issued quantity. The wastage /scrap steel must be return by contract for reconciliation of steel. Wastage scrap beyond 2% will deducted @ Rs.75 per kg.

32. METHODS OF MEASUREMENTS

Except where any general or detailed description of the work in quantities expressly shows the contrary, schedule of quantities shall be deemed to have been prepared and measurements shall be taken in accordance with the procedure set forth in the schedule of rates – specification notwithstanding any provision in the relevant standard method of measurement or any general or local custom. In the case of items which are not covered by the CPWD schedule of rates – specification, measurement shall be taken in accordance with the relevant standard method of measurement issued by the Indian standards institution.



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FREE ISSUE MATERIAL TO THE CONTRACTOR

S No.	Particulars	Rs.	Quantity
1	PPC Cement	Free of Cost	As per requirement

Note: If Tools and Plants (if available) are issued to the contractor on chargeable basis than the amount shall be deducted as per rates decided by BHEL prior to issue.



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BLANK PRICE BID (JS 472)

S.NO	Description	Unit	Quantity	%Allocation	Rate (Rs.)	Amount (Rs.)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains, All kinds of soil (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	cum	13.00	0.3827130000%	XXXX.XX	XXXX.XX
2	Excavation work by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains, Ordinary rock (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m.	cum	8.00	0.3904190000%	XXXX.XX	XXXX.XX
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	cum	5.00	0.1112360000%	XXXX.XX	XXXX.XX
4	Surface dressing of the ground including removing vegetation and in -equalities not exceeding 15 cm deep and disposal of rubbish lead unto 50 m and lift upto 1.5 m for all kinds of soil.	100sqm	14.00	0.0345490000%	XXXX.XX	XXXX.XX
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : "1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	cum	10.00	5.7242750000%	XXXX.XX	XXXX.XX



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6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum	9.00	5.1605520000%	XXXX.XX	XXXX.XX
7	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing : 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	1.00	0.7670380000%	XXXX.XX	XXXX.XX
8	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	1.00	0.7723960000%	XXXX.XX	XXXX.XX
9	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 (zone-III) : 3 graded stone aggregate 20 mm nominal size).	cum	2.00	1.6313090000%	XXXX.XX	XXXX.XX



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10	Centering and shuttering including strutting, propping etc. and removal of form for all heights :Foundations, footings, bases of columns, etc. for mass concrete.	sqm	15.00	0.4893930000%	XXXX.XX	XXXX.XX
11	Centering and shuttering including strutting, propping etc. and removal of form for all heights :Suspended floors, roofs, landings, balconies and access platform	sqm	17.00	1.2556150000%	XXXX.XX	XXXX.XX
12	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	4.00	0.2358120000%	XXXX.XX	XXXX.XX
13	Brick work with FPS bricks of (II nd class kanpur brick) upto plinth 1:6 (1 cement: 6 fine sand)	cum	10.00	6.9302110000%	XXXX.XX	XXXX.XX
14	Brick work with FPS bricks of (II nd class kanpur brick) in Super structure 1:6 (1 cement : 6 fine sand) upto floor five level	cum	6.00	5.0404380000%	XXXX.XX	XXXX.XX
15	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	10.00	1.0001260000%	XXXX.XX	XXXX.XX
16	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5.00	2.9497940000%	XXXX.XX	XXXX.XX
17	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.40 mm thick with 20 mm nominal size stone aggregate	sqm	252.00	10.9005690000%	XXXX.XX	XXXX.XX



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18	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	10.00	1.1243990000%	XXXX.XX	XXXX.XX
19	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete.	sqm	22.00	2.3956000000%	XXXX.XX	XXXX.XX
20	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	sqm	37.00	6.0542120000%	XXXX.XX	XXXX.XX



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21	Plaster -12 mm thick in 1:6 (1 cement : 6 fine sand)	sqm	48.00	1.1507150000%	XXXX.XX	XXXX.XX
22	Plaster -15 mm thick in 1:6 (1 cement : 6 fine sand)	sqm	48.00	1.3205220000%	XXXX.XX	XXXX.XX
23	Demolishing cement concrete including disposal of material within 50 meter lead (1:3:6)	cum	2.00	0.3527880000%	XXXX.XX	XXXX.XX
24	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.In cement mortar	cum	3.00	0.4472920000%	XXXX.XX	XXXX.XX
25	Supplying at site :R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-incharge (cost of earth works in excavation, concrete works in foundation to be paid separately).	cum	3.00	8.5138850000%	XXXX.XX	XXXX.XX
26	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.With G.I. barbed wire	meter	1210.00	1.5948490000%	XXXX.XX	XXXX.XX



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27	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mmthick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	315.00	30.6160630000%	XXXX.XX	XXXX.XX
28	All items of DSR 2016 but not covered above.	basic value	15000.00	2.6532310000%	XXXX.XX	XXXX.XX
Total				100.00000000%		

GST EXTRA AS APPLICABLE

NOTE – Contractor must not quote Rates/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

The total price of the package is to be quoted by the bidders. The total quoted amount by the L1 bidder for the package shall be used for deriving Individual item rate by BHEL based on % (percentage) weightage specified at Price Schedule.



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Annexure A

DECLARATION BY BIDDER (on letter pad)

TENDER ENQUIRY NO. :-----

DATE:-

We declare that the following family firms or sister concern affiliates / subsidiary firms are participating in the tender No- -----

1.0.....

2.0.....

3.0.....

I..... , hereby declare on behalf of -
M/s..... and the family firms or sister
concern affiliates / subsidiary firms listed above that we are not indulging in cartel formation for
tender No -----

Name & signature of the bidder

(Seal)



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Annexures (I-XII)

UPLOADED IN SPERATE FILE

(To be signed by contractor and submitted along with



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SOP For Implementation of Risk and Cost

UPLOADED IN SEPARATE FILE

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



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

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