



TENDER DOCUMENT
For Works Contract

For Tender Enquiry No. : **FCX/TW/21/09**

For
“(Civil work for Oxygen Plant inside factory area)”

Contact Person:

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Tender Due Date :30.07.2021 at 13 :15 Hrs
Tender Opening Date : 30.07.2021 at 14 :00 Hrs

Rev Date:	Short details of revision (In case of revision in tender document, otherwise NA)
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Factory Civil Department
BHEL, PO: BHEL, Jhansi 284120 (UP)

DETAILS OF TENDER DOCUMENT

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BHEL JHANSI is in the process of finalizing the Works Contract for **Name of Work:- Civil work for Oxygen Plant inside factory 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. FCX/TW/21/09 DATED- 15.07.2021**" should reach us in a sealed cover on or before 30.07.2021 (**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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NOTICE FOR INVITING TENDER

S. No	Particulars	Details
1	Brief Description of work	Name of Work: - Civil work for Oxygen Plant inside factory area.
2	Tender Evaluation Criteria	(QR as per Annexure C), Awarding on overall L1 basis
3	Duration of Contract	05 month
4	Last date of Sale of the Tender	Upto 11:00 hrs on 30.07.2021
5	Last date of receipt of the Tender	Upto 13:15 hrs on 30.07.2021
6	Date of opening of Techno – Commercial Bid.	14:00 hrs on 30.07.2021
7	Address for submitting the Tender	Tender Box Administrative Building gate
8	Earnest Money Deposit * (EMD)	Rs.29420.00
9	Cost of Tender	Nil
10	Validity of Offer	120 Days
11	Security Deposit	5 % of Contract value
12	Reverse Auction	BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the technocommercially qualified bidders. Price bids of all technocommercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.

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:- SBINOOO3807

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.	DESCRIPTION OF ITEM
1	Carriage of Earth up 1 km .
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil
3	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge. 2.7.1 Ordinary rock
4	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.
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).
7	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 :1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).
8	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).
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).
10	Centering and shuttering including strutting, propping etc. and removal of form for all heights : 5.9.1 Foundations, footings, bases of columns, etc. for mass concrete
11	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.
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)
13	Brick work 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 in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)

14	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.
15	12 mm cement plaster of mix :1:6 (1 cement: 6 fine sand)
16	15 mm cement plaster on the rough side of single or half brick wall of mix :1:6 (1 cement: 6 fine sand)
17	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete
18	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : 13.41.1 New work (two or more coats) over and including water thinnable priming coat with cement primer
19	Finishing walls with water proofing cement paint of required shade : 13.44.1 New work (Two or more coats applied @ 3.84 kg/10 sqm)
20	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Anodized aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)
21	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 4.0 mm thickness
22	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).
23	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.
24	Items covered in DSR-2016 but not covered above

25	Supply and installation of coated galvalume steel sheet of approved colour (Maximum height up to 30.0 m) having maximum of pitch of 205 mm c/c and minimum 28 mm crest depth in length for roofing / side cladding as per site requirement. The supplied material is to be manufactured out of 0.50 mm TCT (Total coated thickness) and 550 MPA tensile strength, with zinc aluminium alloy of AZ-150 (As per AS-1397:1993). The sheet shall have a hot dip metallic zinc aluminium alloy coating of zinc (43%), silicon (1.5%) and aluminium (55%) with total mass coating of 150 gms/sqm considering both sides together , self drilling/self tapping screws with EPDM seal fixed to the existing MS purlins/MS runners complete as per drawing and as directed by engineer-in-charge.
26	Supply & fixing of flashings, ridges, cappings, corner pieces etc. made of 0.5mm TCT galvalume sheet in required shape and size having a yield strength of 550 Mpa (with 150gsm/sqm minimum coating mass total of both side as per AZ 150), SMP colour coating provided on exposed face with 20 microns thick finish and inner face provided with back-coat pre-coating of 5-7 microns & fixed with stitching screw complete.
27	Providing and fixing fire retardant and U.V. resistant profiled and solid transparent embossed polycarbonate sheet of minimum 3 mm thick with profile to match with that of adjacent galvalume sheets on roof with self drilling/self stitching fasteners with EPDM seal for transmission of light, fixing of the sheet to the existing support system underneath as per the standard practice complete and as directed by engineer-in-charge. The soild transparent polycarbonate sheet shall be free from scratches and other surface damage and it shall be UV treated and tested as per relevant ASTM or DIN or AS etc.as the case may be.
28	Fabrication and erection of structural steel works at all heights(Maximum height up to 30.0 m) consisting of, railing, clamps, purlins with channels & angles, M.S. flat, M.S. tubes, supports including all connections as per detailed drawings connected steel works etc. cleats, gusset plates all bolts, nuts, washers ,base plates, anchor bolts etc., as per detailed drawings cutting welding and painting 1 coats of red oxide primer before erection & 2 coats of synthetic enamel paint/Aluminium paint of approved brand & colour after erection complete. Advani made electrodes or other approved make electrodes are to be used. All bolts, nuts, washers, gas, electrodes are in contractor's scope. Fabrication to be done as per I.S. codes of latest revision. (All the materials are in contractor scope except the Structural steel. Structural steel shall be provided by BHEL free of cost.) (Make of paint and primer shall be Asian, Berger, Narolac and Shalimar)
	Only fabrication
	Only erection

QUALIFYING REQUIREMENTS

- 1) **Average Annual financial turnover** during the last 3 years, ending 31st March 2020, should be at least **Rs.4.41 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 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. 5.88 Lakhs**.
Or
 - b. Two similar completed works each costing not less than the amount equal to **Rs. 7.35 Lakhs**.
Or
 - c. One similar completed work, each costing not less than the amount equal to **Rs. 11.77 Lakhs**.

Similar work means: - :- Civil construction, renovation or modification works except laying of bitumen roads.

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 Documents-

- 3) Should have PAN/TAN number. Copy of PAN/TAN to be submitted.
- 4) GST Registration with valid documentary proof.
- 5) Should have independent ESI Code number.
- 6) Blank Price Bid (JS 472) as per annexure "G".
- 7) Undertaking duly signed, with seal and stamp of the Bidder.
- 8) EMD.
- 9) 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.

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 (____).



Bharat Heavy Electricals Limited, Jhansi

Department: Factory Civil

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Annexure -D

GENERAL TERMS AND CONDITIONS OF ENQUIRY (JHS 2055C R01)

UPLOADED IN SPERATE FILE -(PAGES 01 TO 14)

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

SPECIAL CONDITIONS OF CONTRACT FOR WORK

1. Location of Site –Inside BHEL factory.
2. Time allowed for completion of work – 5 months.
3. Defect Liability period – 1 year 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. Payment will be done as per GTC Clause (X) (6).
5. Penalty for delayed work – The contractor will have to complete work at site given to them within 5 Months 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. as per Govt. norms 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. 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. The contractor will be fully responsible for the preparation of bill and submission to Engineer-in-charge.
11. *The measurements of completed works and preparation of bill's related procedure will be governed by as per CPWD norms and guidelines. Contractor will comply with all CPWD's Norms, specifications, and guidelines related to work execution and billing.*
12. 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.
13. 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).
14. 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.
15. 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.
16. 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

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.The decision of Engineer in charge is such case shall be final and binding on contractor.

17. The contractor will follow all safety rules required in connection with execution of such type of works.
18. 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.
19. The workers should be trained enough for the work.
20. No minor worker will be allowed to work.
21. The contractor shall be wholly responsible for the behavior of his workmen with the official staff.
22. All tools & tackles, ladder & machinery required for the work execution shall be arranged by contractor on his cost.
23. 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.
24. Water will be supplied free of cost at one point for drinking and construction.
25. 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.
26. It is mandatory that consumable building material i.e. sand, stone aggregate, Tiles, paint and other required material to be used after prior approval of Engineer-in-charge.
27. Cement wastage @ 3% of total issued quantity shall be permissible. Beyond this recovery shall be made at double the issue rate for cement.
28. 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.
29. Test certificate for consumed materials to be made available by the contractor as per direction of Engineer-in –charge (As per field quality plan.)
30. The qty. of item of boq may vary and contractor will adhere to execution of item to complete the project .No claim related to qty. variation of items by contractor will be entertain.
31. For all natural minerals, if 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
32. ACCOUNTING- (If applicable)
 - a) Proper method of accounting 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 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.

33. RECOVERY FOR LAND & BUILDING RENT 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.

34. 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
2	Structural steel & Tor Steel	KG	Free of cost	As per requirement	Factory Civil store

35. Field Quality Plan-

S No.	CHARACTERISTICS / ITEM	TYPE OF CHECK	QUANTUM/ FREQUENCY OF CHECK	REFERENCE DOCUMENT/ ACCEPTANCE STANDARD	FORM AT OF RECORD	REMARKS
1.0 CAST-IN-SITU CONCRETE						
1.1	COARSE AGGREGATE (20 mm)					
1.1. 1	Moisture Content	T	Once for Each source & for every change of source	As per IS:2386 Part III IS:456, IS:383	Test Report	
1.1. 2	Specific Gravity, Bulk Density, Voids, Water absorption	T	Once for Each source & for every change of source	As per IS:2386 Part III IS:456, IS:383	Test Report	
1.1. 3	Crushing Value	T	Once per source/on every	As per IS:2386 Part II,IV,VI,IS:383	Test Report	

			change of source			
1.2	FINE AGGREGATE (10mm)					
1.2. 1	Bulkage & Moisture Content	T	Once for Each source & for every change of source	As per IS:2386 Part III ,IS:383	Test Report	
1.2. 2	Silt, Clay content, soundness.	T	Once per source & for on every change of source	As per IS:2386 Part-II, V, VI, VII IS:383	Test Report	
1.3	SAND					
1.3. 1	Silt Content	T	Once per source & for on every change of source	As per IS:2386 IS:383/	Test Report	
1.3. 2	Bulkage/Moisture Content	T	Once for Each source & for every change of source	As per IS:2386 Part III ,IS:383	Test Report	
1.4	CONCRETE					
1.4. 1	Compressive Strength(Works tests cubes)	T	Once per 50 cum or part thereof	IS:516 & IS:456, IS:10262	Test Report	
1.4. 2	Laying and Mixing of concrete	V	Random	As per site requirement	SR	
1.4. 3	Curing	V	Random	As per site requirement	SR	
2.0	BRICKS					
2.1	Water absorption	T	As per IS:3495 & IS 5454	IS 1077 , IS 3495 & IS 5454	Test Report	
2.2	Compressive Strength	T	Once for Each source & for every change of source	IS 1077 , IS 3495 & IS 5454	Test Report	
3.0	Putty					

3.1	Brand	V	Random	As per remark	SR	Make of putty shall be Birla Wall Care Cement Putty/JK Wall Putty/Asian Wall Putty/Burger Wall Putty
4.0 Oil Bound Washable Distemper						
4.1	Brand	V	Random	As per remark	SR	Make of distemper shall be Asian/Burger/Nerol ac
5.0 Water Proofing Cement Paint						
5.1	Brand	V	Random	As per remark	SR	Make of distemper shall be Asian/Burger/Nerol ac

Note:

1. The tests/procedure mentioned above are only indicative and any other test required to maintain/improve/access the quality of work shall also form part of Field Quality Plan.
2. Testing over any item/material used in any item shall only be carried out if the executed value for the said item is more than Rs. 50,000.00

Annexure'F'

Technical Bid Qualifying criteria & check list

S. No	Particulars Details	Pease tick (✓)	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 (Alongwith 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 <ul style="list-style-type: none"> 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		

Note: Technical bid and price bid should be submitted in separate sealed envelopes. In case the bids are found in one single envelope then the "bids" are liable to be rejected.

Annexure -G
BLANK PRICE BID (JS 472)

a. Name of the firm : _____							
Sl.no.	Ref.	Description of work	Unit	% Allocation (Item-wise)	Qty.	Rate	Amount (Rs.)
Section "A"							
1	1.1.2/68	Carriage of Earth up 1 km .	Cum	1.283698000%	300.00	0.000	0.00
2	2.6.1/76	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and	Cum	2.082539200%	380.00	0.000	0.00
3	2.7.1/76	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m,	Cum	0.538629300%	56.00	0.000	0.00
4	2.25/79	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	Cum	2.330928800%	426.00	0.000	0.00

		50 m and lift upto 1.5 m.					
5	4.1.3/88	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :	Cum	4.223619700%	30.00	0.000	0.00
6	4.1.6/88	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:3:6 (1 Cement : 3 coarse sand (zone-III): 6 graded stone aggregate 40 mm nominal size).	Cum	1.269228000%	9.00	0.000	0.00
7	5.1.2/97	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 :1:1.5:3 (Cum	1.942993700%	13.00	0.000	0.00
8	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	6.904556500%	45.00	0.000	0.00

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9	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 (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	2.808523400%	14.00	0.000	0.00
10	5.9.1/98	Centering and shuttering including strutting, propping etc. and removal of form for all heights : 5.9.1 Foundations, footings, bases of columns, etc. for mass concrete	Sqm	0.946894100%	118.00	0.000	0.00
11	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	2.065821800%	4320.00	0.000	0.00
12	6.1.2/111	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	4.090738500%	24.00	0.000	0.00

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13	6.4.2/111	BBrick work 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 in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	8.264575000%	40.00	0.000	0.00
14	11.4/191	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	4.931405400%	288.00	0.000	0.00
15	13.1.2/227	12 mm cement plaster of mix 1:6 (1 cement: 6 fine sand)	Sqm	1.361954800%	231.00	0.000	0.00
16	13.2.2/227	15 mm cement plaster on the rough side of single or half brick wall of mix 1:6 (1 cement: 6 fine sand)	Sqm	1.197686100%	177.00	0.000	0.00

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17	13.26/229	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	Sqm	2.078520400%	408.00	0.000	0.00
18	13.41.1/230	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : 13.41.1 New work (Sqm	0.922812300%	231.00	0.000	0.00
19	13.44.1/230	Finishing walls with water proofing cement paint of required shade : 13.44.1 New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	0.432910600%	177.00	0.000	0.00
20	21.1.2.1/374	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free,	Kg	2.752223500%	172.80	0.000	0.00

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21	21.3.1/375	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 4.0 mm thickness	Sqm	0.536834800%	18.00	0.000	0.00
22	21.17/377	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre,	Kg	0.680369500%	44.00	0.000	0.00
23	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	KG	0.610184700%	237.00	0.000	0.00
24	DSR-16	Items covered in DSR-2016 but not covered above	DSR-2016	1.305367100%	30000.00	0.000	0.00
Sectional Total A					55.563015200%		0.00
Section "B"							
Sl.no.	Ref.	Description of work	Unit	% Allocation (Item-wise)	Qty.	Rate	Amount (Rs.)
25	NS-1	Supply and installation of coated galvalume steel sheet of approved colour	Sqm	20.790536100%	597.00	0.000	0.00

		(Maximum height up to 30.0 m) having maximum of pitch of 205 mm c/c and minimum 28 mm crest depth in length for roofing / side cladding as per site requirement. The supplied material is to be manufactured out of 0.50 mm TCT (Total coated thickness) and 550 MPA tensile strength, with zinc aluminium alloy of AZ-150 (As per AS-1397:1993). directed by engineer-in-charge.					
26	NS-2	Supply & fixing of flashings, ridges, cappings, corner pieces etc. made of 0.5mm TCT galvalume sheet in required shape and size having a yield strength of 550 Mpa (with 150gsm/sqm minimum coating mass total of both side as per AZ 150), SMP colour coating provided on exposed face with 20 microns thick finish and inner face provided with back-coat pre-coating of 5-7 microns & fixed with stitching screw complete.	Metre	2.652306300%	136.00	0.000	0.00
27	NS-3	Providing and fixing fire retardant and U.V. resistant profiled and solid transparent embossed polycarbonate sheet of minimum 3 mm thick with profile to match with that of adjacent galvalume	Sqm	3.593912200%	30.00	0.000	0.00

		<p>sheets on roof with self drilling/self stitching fasteners with EPDM seal for transmission of light, fixing of the sheet to the existing support system underneath as per the standard practice complete and as directed by engineer-in-charge.</p>					
28	Ns-4	<p>Fabrication and erection of structural steel works at all heights (Maximum height up to 30.0 m) consisting of, railing, clamps, purlins with channels & angles, M.S. flat, M.S. tubes, supports including all connections as per detailed drawings connected steel works etc. cleats, gusset plates all bolts, nuts, washers, base plates, anchor bolts etc., as per detailed drawings cutting welding and painting</p>					
	(a)	Only fabrication	Kg	6.959879800%	15617.00	0.000	0.00
	(b)	Only erection	Kg	10.440350600%	15617.00	0.000	0.00
Sectional Total B				44.436985000%			0.00
Total Amount To be quoted by Contractor (in figure)							XXXXXX

Amount in Words:- XXXXXXXXXXXXXXXX

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.



Annexures (I-IX)

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



Bharat Heavy Electricals Limited, Jhansi

Department: Factory Civil

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

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