



SCHEDULE-A

BHARAT HEAVY ELECTRICALS LIMITED

HPEP, RAMACHANDRAPURAM, HYDERABAD-502032
FACTORY CIVIL & PROJECTS DEPARTMENT

PRICE BID

Ref No: Tender Notice No: **HY / FCD / OT-04 / 2022-23, date: 15.06.2022**

Bill of Quantities

Name of the work : "Civil works for Laying of additional single slot clamping bars in Stator Winding Hall of EM Shop in 02 Block".

S.No	Description	Unit	Quantities	Unit Rate	Amount
1	Dismantling reinforced cement concrete / plain cement concrete and disposing of debris upto to a lead of 2 km including loading, unloading and spreading as directed by Engineer-in-charge etc., complete. All necessary precautions to be taken to prevent spread / fly of dust at no additional cost to BHEL.	m3	9.00	Rs. 1,054.10	Rs. 9,486.90
2	Earth work in excavation in all soils by mechanical means (Hydraulic Excavators) / manual means in foundations trenches or drains (not exceeding 1.5 m in width or 10 Sq.m 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. All necessary precautions to be taken to prevent spread / fly of dust at no additional cost to BHEL.	m3	11.00	Rs. 130.80	Rs. 1,438.80
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering including consolidation by vibrations for all works up to plinth level with 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate of 20 mm nominal size). Only Cement will be issued by BHEL free of cost at their stores.	m3	2.00	Rs. 2,606.00	Rs. 5,212.00
4a	Providing and laying in position specified grade of Reinforced cement concrete excluding the cost of centering ,shuttering, finishing and reinforcement ,including consolidation by vibrations for all works up to plinth level with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate of 20 mm nominal size). Only Cement will be issued by BHEL free of cost at their stores.	m3	11.50	Rs. 2,772.00	Rs. 31,878.00
4b	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work , using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. (Cement content considered as 330 kg/cum. Excess / less cement used as per design mix is payable / recoverable separately). All works upto Plinth level.	m3	6.00	Rs. 5,590.60	Rs. 33,543.60

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5	Centering and shuttering including strutting, propping etc.; and removal of form work, for foundations, footings, bases of columns etc. for mass concrete- up to plinth level. - for clamping bars.	m ²	7.00	Rs. 166.90	Rs. 1,168.30
6	Grouting with cement mortar 1:1 including cost of all materials, labour, curing, for all leads and lifts etc.; complete. Only cement will be issued by BHEL free of cost at their store. All necessary precautions to be taken to prevent spread / fly of dust at no additional cost to BHEL.	m ³	0.50	Rs. 1,556.42	Rs. 778.21
7	Reinforcement for RCC. work including straightening, cutting, bending, placing in position and binding grills with binding wire all complete by cold twisted bars. Reinforcement will be issued by BHEL free of cost at their stores.	MT	3.00	Rs. 7,369.00	Rs. 22,107.00
8a	Shifting, erection, alignment & levelling of clamping bars including fixing / erection of foundation bolts, taper wedges at approved location in 02 shop as required upto a minimum levelling accuracy of 0.1 mm/m accuracy all as directed by the Engineer-In-Charge. Weight details of clamping bars, foundation bolts, taper wedges & packing plates shall be as below: (i) 1.475 m long clamping bars for Pits No: 1, 2, 3 = 2 x 3 = 6 Nos weight = 6 x 383.50 kg = 2301.00 kg (ii) 2.08 m long clamping bars for Pit No: 4 = 2 x 1 = 2 Nos weight = 2 x 540.8 kg = 1081.60 kg (iii) 45 mm dia & 630 mm long Foundation bolts = 3 Nos per bar weight = 4 x 3 x 2 x 8 kg/bolt = 192 kg (iv) Packing plates - 1 No per clamping bar weight = 8 x 108 kg/plate = 864.00 kg (v) Taper wedges = 12 Nos per clamping bar weight = 4 x 12 x 0.6 kg/wedge = 28.8 kg (vi) Miscellaneous = 100 kg Total = 4567.4 kg = 4.6 MT The clamping bars and MS plates for cutting of Packing plates will be provided as free issue from BHEL stores. Required fabrication works to be done as directed by the Engineer-In-Charge.	MT	4.50	Rs. 830.28	Rs. 3,736.26
8b	Supply of MS Foundation bolts of size M42 x 45 mm x 630 mm long with Hex nut and washers	Nos	24	Rs. 763.78	Rs. 18,330.72
8c	Supply of Taper wedges of size: Length: 150 mm, Width: 40 mm, Thickness: Max Th. = 12 mm; Min. Th. = 3 mm	Nos	48	Rs. 73.73	Rs. 3,539.04
8d	Shifting of MS scrap plate from scrap yard or from any other block to work site. The MS scrap should be made to size of 150 mm x 150 mm or any other size from 5 mm to 60 mm thick plates with gas cutting and all including chipping edges and grinding with hand drilling machine and shifting of plates to site / stores as directed by the Engineer-In-Charge. Only Acetylene gas, Oxygen and MS scrap plates shall be of BHEL free issue.	MT	0.50	Rs. 680.34	Rs. 340.17
	Total Cost excluding GST				Rs. 1,31,559.00



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Notes:	
1	Risk Purchase : In case the contractor fails to execute the work within the scheduled time or due to any other reasons, BHEL reserves the right to get the same completed through some other party at the risk & cost of the contractor and any additional expenditure incurred due to the same shall be charged to the contractor.
2	The rates are excluding GST.
3	The maintenance period is 12 (TWELVE) months. The security deposit will be released after satisfactory completion of the work including Maintenance Period and after getting I.R clearance and payment of final bill.
4	Penalty terms: Refer Clause 2.1.3 of NIT The following Penalties are envisaged in the contract and shall be assessed and recovered independently: (a) DELAY IN COMPLETION OF WORK: In the event of delay in supply of goods or services or works beyond contractual delivery date, a penalty of 0.5% per week or part thereof shall be levied on the gross value of work done subject to a maximum of 10% of the gross value of the total work executed. Penalty amount so determined along with GST if applicable thereon shall be recovered. (b) DELAY IN DEPOSITION OF SECURITY DEPOSIT: (i) If the Contractor fails to deposit the required Security Deposit as mentioned in LoI, within ONE week period from the date of issue of LoI, a penalty of 5% per week delay or part thereof of total Security Deposit amount for the contract, subject to a maximum of 30% shall be levied as penalty and recovered from his bills along with GST. (ii) If the Contractor fails to deposit the required Security Deposit within TWO weeks period from the date of issue of LoI [or] on / before respective date as per LoI, whichever is earlier, EMD shall be forfeited and the Contractor / Tenderer will automatically be suspended from being eligible for bidding in any contract with BHEL for a period of TWO years from the date of notification. (c) DELAY IN COMMENCEMENT OF WORK: If the Contractor fails to commence the work within the FIFTEEN (15) days period from the date of issue of LoI or respective date as per LoI / Work Order or as requested by BHEL, whichever is earlier, a penalty of 0.5% per week delay or part thereof or EMD whichever is higher, shall be recovered. Penalty amount so determined along with GST, if applicable thereon shall be recovered. (d) USAGE OF CRUSHED STONE SAND: Coarse and Fine Aggregates shall be conforming to IS 383. However, if Crushed stone sand is used in masonry / concrete / plastering or any other cement related work(s), Amount payable for such item shall be reduced by 20% (TWENTY PERCENT) to the extent of quantity executed using crushed stone sand (also locally called as robo sand etc.)
5	Taxes: Bidders shall quote their Basic price exclusive of taxes. The applicable taxes on supply of material or services, as the case may be viz.GST shall be quoted separately, clearly showing the Service Code/Tariff Head, Rate of Tax and Amount of Tax in the Bid. The reimbursement of taxes to the contractor is contingent upon fulfilment by the contractor of all statutory provisions as stipulated in the relevant taxation statute enabling BHEL to avail the eligible input tax credits. TDS at the rates prescribed under Income Tax Act shall be deducted from the payments due to Contractor and BHEL shall issue the necessary TDS Certificates for such deductions made.
6	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than GST as applicable from time to time.



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7	All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
8	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
9	The agency has to pay the minimum wages to workers with statutory payments like ESI, PF etc., is as per BHEL notification and as per NIT. For USW= ₹ 550.38, SSW= ₹ 587.73, SW = ₹ 623.54 + ESI + PF + PPE's and other statutory if any increase in future DA is to be borne by the agency.
10	The agency has to bring police clearance certificate for the work force.
11	All the terms and conditions of the contact with respect to taxes & duties are subject to the new taxation laws introduced from time to time (e.g. GST). The terms and conditions will be modified in accordance with the provisions of new laws (e.g. GST).
12	Payment shall be made stage wise on approval from engineer in charge
13	Vendor shall raise GST invoice on BHEL Hyd GSTIN.
14	If BHEL is unable to avail the input tax credit, the same amount shall be recovered from the vendor bills.
15	Use of crushed stone dust is not permitted in any civil works.
GST CLAUSES	
Following points to be complied with :	
1	In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.
2	In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied / leviable on BHEL.
3	The bidder shall arrange to send to BHEL, Hyderabad along with all the required documents as in Purchase Order, Tax Invoice (Original for Recipient) along with his bills.
4	Vendor to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter /Intra state movement Supply of goods and services or both.
5	Taxes and duties prevalent on the contractual delivery date or the actual delivery date (in case of delay) whichever is lower shall be applicable paid. Composition Scheme to be addressed.
6	Vendor shall note that the Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services or both wherever applicable.
7	Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.
8	In case of any short supply of goods or service Vendor has to raise a credit note for short supplied quantity as per GST provisions.
9	Any GST liability arising on BHEL under reverse charge before actual receipt of goods and or services and/or invoice thereof would be subject to recovery of interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of invoices and other conditions specified in GST law, as applicable.



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10	Supplier shall mention their GST registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.
11	A declaration to the effect that all tax liability as per GST rules and regulations shall be discharged.

Tender %	In Figures	In Words
Excess		
Less		
At par with Estimated value		

Note :	<p>1) The bidders are required to quote the tender value on percentage (%) basis at excess or less or at par with estimated value in figures and words. Bidders are requested to fill only one row.</p> <p>2) The rates are excluding GST.</p>
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