



भारत हेवी इलेक्ट्रिकल्स लिमिटेड, भोपाल
BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL

TRANSFORMER SERVICES DEPARTMENT

Phone: +91-755-2503195/3377 E-mail: krishnasingh@bhel.in

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

Sub.: Receipt, unloading, handling, storage, erection, commissioning and handing over of 1 No. x 200 MVA 400 KV 1- Ø Generator Transformer at M/s Chandrapur Super Thermal Power Station, MSEB Chandrapur, Maharashtra.

Dear Sir(s),

Sealed tenders are invited for carrying out the subject work. The tender submission and opening details are as follows:

- **DATE & TIME OF RECEIPT OF THE TENDER:** 12/06/2023 Till 11.00 Hrs.
- **DATE & TIME OF TENDER OPENING:** 12/06/2023 after 14.00 Hrs.
- **PLACE OF TENDER SUBMISSION:** "GREEN COLOURED WORKS CONTRACT TENDER BOX" placed in Tender Room, Administrative Building, Ground Floor, BHEL, Bhopal – 462 022.

The details of the work shall be as per the **Scope of Work (Clause No. 4.0)**. Prices are to be submitted as **Price-bid format (Annexure-I)**. The other conditions and details of tender are as follows:

1.0) PROJECT:

- a) Chandrapur Super Thermal Power Station (CSTPS), MSEB – Chandrapur, Maharashtra.

Note:

- 1) This is proposed project site for dispatch of Generator Transformer, however the site may vary as per Customer's actual requirement (anywhere in Maharashtra) at the time of dispatch of Generator Transformer from BHEL Bhopal Works and for E&C of Generator Transformer at new site same quoted rate by bidder in tender will be applicable.

2.0) DETAILS OF EQUIPMENTS:

1 No. x 200 MVA 400 KV 1-Ø Generator Transformer at CSTPS, MSEB – Chandrapur

3.0) APPROXIMATE SHIPPING WEIGHT & DIMENSIONS OF MAJOR PARTS:

Sl. No.	Description	200 MVA Generator Transformer
1.	Shipping Weight Transformer tank	139.00 Ton
2.	Weight of Accessories	13.00 Ton
3.	Quantity of oil	32.00 KL
4.	Dimension of Transformer tank	L-6600, B-3700, H-4200 mm
5.	400 KV, HV Bushing Dimensions & weight	L- 6200 mm, Wt. 1500 Kg

Note: Values given above are approximate values.

4.0) SCOPE OF WORK:

This project consists of Receipt, unloading, handling, storage, erection, commissioning and handing over of 1 No. x 200 MVA 400 KV 1-Ø Generator Transformer at M/s Chandrapur Super Thermal Power Station (CSTPS), MSEB – Chandrapur / site may vary as per Customer's actual requirement (anywhere in Maharashtra).

The total work content is divided in Five stages comprising some activities of erection & commissioning of Transformer. The work content to be carried out by the Contractor will broadly comprise of following:

➤ STAGE – I: STORAGE OF ACCESSORIES

4.1 ARRANGEMENT FOR STORAGE OF MATERIAL:

4.1.1 The contractor will have to arrange a temporary storage of material at site at an appropriate location to be provided by the customer. Contractor has to arrange following:

- 01 No. Container / porta-cabin (20'x 8' minimum) shall be arranged by Contractor to the site. This shall have partition for storage of material and office purpose. One portion shall be used to store delicate materials i.e. Insulation material, breathers, drying agent, set of gasket, O-ring, buchholz relay, PRV, NRV, Corona shield, copper conductor, GCD, set of valves, hardware, OLDA equipment, testing equipment etc. 2nd portion shall be used for office purpose having rack/shelf, chairs, table, light, fan for keeping site records / meeting etc.
- An open fenced area of about 300 sq-mtr shall be covered for storing large accessories suitable for outdoor storage like oil drums, bushings, conservator, pipe work etc. Contractor will have to ensure that material stored in open yard should be elevated from ground level by brick soling-pavement blocks any other means to avoid water logging. No material shall be directly placed / stored on open/ loose soil. Contractor has to cover all accessories boxes with water resistance tarpaulin.
- The contractor has to make arrangement for inspection, verification, storage, upkeep during storage & watch and ward of the equipment's/ material dispatched to site.
- Any loss damage, theft to the materials/ equipment's/ installation (if any) / in cases where storage facilities were not managed at site – in those cases of non-deployment, negligence or willful lapses damages occurred shall be totally compensated by the Contractor on as it is basis and deduction will be made on account of execution agency. Sufficient numbers of watchmen shall be deployed by the Contractor at required locations for this purpose at his cost.
- In accidental cases, it is responsibility of the contractor to file F.I.R. and provide peripheral assistance for insurance survey and claims under insurance policy and get secure their claims from the insurance agency. BHEL losses will be directly recovered from the contractor on immediate basis.

The Contractor will have to submit the actual photograph of store constructed/arranged by them at site duly certified by self & BHEL/Customer representative along with the bill to claim the charges on this account after final commissioning of Transformer (Not applicable for spare unit).

Note: After final commissioning & handing over of Transformer, porta cabin (site office) & container (covered storage) shall be taken out by contractor from site.

➤ STAGE-II: PLACEMENT OF MAIN TANK ON PLINTH

4.2 UNLOADING OF MAIN TANK & MAINTAINING ITS N₂ PRESSURE:

This activity will involve the following work:

- 4.2.1 Unloading of Equipment from road trailer, the contractor will have to organize unloading of equipment from Hydraulic Road Trailer after its receipt at project site near plinth. The distance of unloading point to the plinth can be anywhere up to a maximum distance of 100 meter ± 20 %. Payment for dragging for any variation from specified shall be paid as per actual dragging carried out at site. This unloading

has to be organized within reasonable time frame of 5 days from its receipt, any delay on the part of contractor, without any valid reason shall attract penalty, in the form of holding-up charges of trailer. These charges shall be passed on to the contractor on actual basis as levied by transporter on BHEL.

- 4.2.2 Checking of N₂ pressure in tank and maintaining it at 0.25 Kg/cm² with pure and dry Nitrogen gas of dryness not less than (-) 50 °C dew point till erection is started. Nitrogen Gas Cylinders (having 99.999% dryness) whenever required for maintaining the N₂ pressure in GT Main Tank till erection is completed shall be arranged by Contractor.

4.3 DRAGGING OF MAIN TANK UPTO THE PLINTH INCLUDING ROTATION & MAINTAINING ITS N₂ PRESSURE:

This activity will involve the following work:

- 4.3.1 After unloading, main tank required to place on final erection location by manual dragging. This distance of dragging will be limited upto 100 mtrs ± 20%. Dragging of the Transformer as per site requirement is in the scope of E&C contractor at site and payment shall be made as per actual dragging distance.
- 4.3.2 The main tank shall require for proper placement on the plinth matching with center lines as per BHEL drawing. The agency has to co-ordinate with customer to obtain inputs of transformer/reactor center lines from CIVIL layout as per BHEL drawings for final placement.
- 4.3.3 N₂ pressure in Transformer is to be maintained at 0.25 Kg/cm² continuously till erection is commenced.
- 4.3.4 The main tank may require turning by any degree during the process of dragging. The scope shall covers turning of main tank by any degree. The activity shall include jacking, dismantling and re-fixing of rollers on main tank etc.

➤ STAGE-III: ERECTION WORK

4.4 RECEIPT, UNLOADING, VERIFICATION, STORAGE, UP-KEEP AND HANDLING OF ACCESSORIES:

This activity will involve the following work:

- 4.4.1 Upon receipt of Transformer – Main tank at site, checking of N₂ pressure, measurement of dew point by vaisala kit or similar type and core insulation isolation test (CC-CL, CC-T & CL-T) has to be carried out at site on trailer before unloading of Transformer. Contractor has to arrange calibrated equipment's for above check immediately after arrival of main tank at site. Delay in providing above facilities shall be considered as delay in completion of work and shall be dealt as per contract clause -7.3. After placement of GT Main Tank over the final location – impact recorder needs to be brought back to BHEL Bhopal by E&C agencies representatives at site.
- 4.4.2 The main tank shall be checked for it proper placement on the plinth matching with center lines as per BHEL/ Customer drawing and ensure the tightness of roller bolts. Minor adjustment may be required.
- 4.4.3 Receipt, unloading and storage of all accessories including online gas monitoring system, other monitoring/control devices, oil and spares supplied against this Contract in the store at site.
- 4.4.4 Checking of N₂ pressure in main tank and maintaining it at 0.25-0.35 Kg/cm² with dry Nitrogen gas of dryness not less than (-) 60 °C dew point before start of erection. The log books of N₂ pressure and dew point nitrogen filled Main tank till erection is commenced.
- 4.4.5 The contractor shall be fully responsible for all joint material verification to be carried out along with BHEL & customer representative, for checking and recording of material/ accessories received at site and to be stored under his control. The contractor will have to ensure inspection of all materials, accessories for any damage/ shortage (if any). **Records will have to be maintained for all the material received with date of receipt, material taken out for erection etc in registers and report to BHEL periodically.** The contractor will have to submit actual photographs of stored items for verification.
- 4.4.6 Dew point measurement of nitrogen filled Main tank prior to start of its erection by vaisala kit or similar type. Internal inspection of the Main tank to find out and rectify transportation damages (if any).

- 4.4.7 Shifting of all accessories conservators, radiators, coolers, pipe works, bushings etc to erection site for pre-erection test and E&C work.

4.5 PRE-ERECTION TESTS – (ALL CTs & CORE ISOLATION)

This activity will involve the following work:

- 4.5.1 Cleaning of accessories including, turrets & main tank shall be carried out at erection site before pre-erection testing is started.
- 4.5.2 Before start of erection, testing of turret mounted CT's, neutral CT's and internal CT's of Main tank etc shall be carried out to ascertain their healthiness. The tests to be carried out are as follows:
- i) Isolation test of CC, CL of Transformer at 500V.
 - ii) Continuity, Insulation Resistance, Ratio, Winding resistance and determination of knee point of all protection CTs.
 - iii) Continuity, Insulation Resistance, Ratio, Winding resistance of all metering CTs & WTI.

4.6 PRE-ERECTION TEST - (C & TAN D TEST OF BUSHINGS)

This activity will involve the following work:

- 4.6.1 Cleaning of bushings including its all petticoats shall be carried out at erection site before pre-erection testing is started.
- 4.6.2 OIP/ RIP bushings shall require to be in vertical position for minimum 4-6 hrs before testing is started.
- 4.6.3 Before start of erection, capacitance and tan delta test at variable frequency of all bushings as per BHEL norms shall be conducted. During the testing, the bushing shall be hang in vertical position isolating from earth part.

4.7 PHYSICAL INSPECTION/ PRESSURE TEST ON RADIATOR BANK

After unloading of the Radiator bank at site each individual radiator shall be physically inspected at site before erection. After physical inspection every Radiator shall be pressure tested as per BHEL standards and results shall be recorded. Any observation in physical inspection/ pressure test shall be informed to concerned BHEL Engineer at site and necessary action shall be taken to rectify the defect of weld joint noticed at site and to be recorded in standard protocol. Major rectification work shall be taken in consultation with BHEL.

4.8 RADIATOR / CLEANING / FLUSHING OF RADIATOR /COOLER BANK

The E&C contractor shall ensure to deploy the Filter M/c and Storage Tank at the start of E&C activities at site. The cleaning/ Flushing of Radiator/ Cooler Bank and associated pipe works shall be carried out well in advance before the start of Erection of Cooler Banks at site. The Cleaning / Flushing of cooler Bank shall be executed in 2 stages followed by its pressure testing at site.

Stage –I

In this stage all the Radiator/ Cooler banks and associated pipe work, after unloading shall be shifted to Erection location. At Erection location the thoroughly cleaned by compressed air at site.

Stage –II

After thorough cleaning of each individual Radiator of Radiator / Cooler Bank and pipe work shall be flushed with the oil through Filter M/c. The E&C contractor shall arrange the filter M/c well in advance to carry out cleaning of Radiator bank in advance.

4.9 ERECTION OF MAIN TANK ACCESSORIES, COOLER BANK & CABLING WORK

This activity will involve the following work:

- 4.9.1 Before erection is started, cleaning/testing of all accessories including, conservators, radiators, coolers, pipe works, turrets, bushings etc., bidder needs to arrange vacuum cleaner of proper capacity, ladder, torch and necessary arrangement for flushing of Transformer accessories from Transformer oil.
- 4.9.2 Erection of 400 kV Bushings shall be done by using mobile crane only. The mobile crane must be operated on outriggers for greater stability while lifting 400 kV Bushings for erection. Erection work through Hydra-tyre

mounted shall not be allowed for HV Bushing Erection at site. In the event of crane is not used by contractor for bushing erection, the recovery as per rate in optional activities will be made.

- 4.9.3 Assembly of Transformer accessories, cooling pipework, pumps, fans, radiators/coolers, Buchholz's pipe work, marshalling box, PRVs, OTI, WTI, RTD sensors, online DGA equipment and thermosyphon etc. Any adjustment, overhauling of oil pumps, repair work i.e. oil leakage, alignment etc. will have to attend by contractor.
- 4.9.4 Dry air of Dew point better than -60 from portable unit or pressurized cylinder shall be pumped in Transformer tank throughout erection/ exposure during erection period. Contractor will have to ensure that their workmen take utmost care during erection to safeguard and avoid ingress of dust, dirt or any foreign material in the Transformer. Contractor will also have to make arrangement for the dry air unit / pressurized cylinders of dry air at site for the purpose.
- 4.9.5 During erection it is mandatory to use water resistance tarpaulin or protective covering so as to negate chances of any ingress of moisture, dust, dirt or any foreign material in the Transformer.
- 4.9.6 Installation of on-line gas monitoring system, digital RTCC panel and other instruments and laying of cable between Unit and RTCC panel (if included in supplies) shall also be included in contractor's scope of work.
- 4.9.7 Carrying out pressure testing on completely assembled Transformer by filling N₂ up to pressure of 0.25 -0.35 Kg/cm² and arresting leakages (if any) to ensure leakage free assembly.
- 4.9.8 Carry out touch up painting on Generator Transformer and cooling system. Arranging of polyurethane paint of specified shade & quality shall also be in the scope of Contractor. Application of zinc rich paint over weld joints of galvanized surfaces and earthing of GT Tank to nearest earth pit if any is included in scope of work.
- 4.9.9 All cabling, cable termination and tagging, FO cable laying in conduit and its splicing, connection of Transformer, neutral formation, NCT & earthing of various equipment / accessories with earth-grid is in contractor's scope of work.
- 4.9.10 Locking of Generator Main tank by welding on embedded plates of foundation shall be done by contractor as per BHEL drawing. The welding machine & welding electrode / brazing arrangement along with qualified welder is to be arranged by contractor.
- 4.9.11 For cooler bank foundation / equipment foundation - drilling, cleaning of each hole & fixing of anchor fastener with adhesive/filler for all foundation bolts etc. shall be done by contractor as per BHEL drawing. The drilling machine & gun for adhesive/filler along with skilled manpower is to be arranged by contractor. Anchor fastener & adhesive/filler materials shall be supplied by BHEL.

➤ **STAGE-IV: DRYOUT & OIL CIRCULATION**

4.10 N2 DRYOUT CYCLES

This activity will involve the following work:

- 4.10.1 After Erection of all accessories, successful leakage testing and ratio & resistance shall be done as per clause 4.16, the job shall be subjected to dry out cycles (minimum 2 Nos) or till achieving the standard Dry out values of dew point -32°C to -36 °C or as per customer requirement.
- 4.10.2 In 1st dryout cycle, vacuum pulling and maintaining a vacuum of less than 1.0 Torr for a minimum period of 72 Hrs. After completion of vacuum cycle of 72 hrs, the vacuum break is to be achieved by using Nitrogen gas purging till the pressure of 0.25 -0.35 Kg/cm² is achieved and maintaining minimum period of 24 Hrs. After completion of 24 Hrs with nitrogen gas pressure, the dew point of gas filled in the tank is measured and noted for record.
- 4.10.3 In 2nd dryout cycle, the vacuum for 48 hrs and nitrogen gas pressure for 24 hrs shall be carried out. Dew point measured after 2nd dryout cycle shall be informed and BHEL clearance shall be obtained for further activities.

In the above dryout cycles, nitrogen gas cylinder of UHP grade (- 60°C dew point or better, purity 99.999% or better) shall be required.

4.11 OIL PREPARATION, OIL FILLING, HOT OIL CIRCULATION:

This activity will involve the following work:

- 4.11.1 Sample testing of oil from drums (randomly selected of oil drums from the supplied lot as per customer sampling plan / IS:2500-part-1) shall be required to be carried out as per customer requirement before pouring into storage tank at site.
- 4.11.2 The Contractor has to arrange total quantity of oil storage tank as per capacity of main tank to ensure oil filling in the main tank in one go without interruption. Oil filling in the main tank shall not be permitted without preparation and testing of complete oil. In the event of single storage tank of the required capacity is not available then complete oil should preferably be contained in storage Tanks of capacity not lesser than 20 KL. The contractor needs to arranged the storage Tank as per Main Tank capacity and kept the filtered oil ready & tested as per BHEL standard from CPRI, customer specified NABL lab, so that oil filling will be executed in one go at site. Oil filling in multiple go is not allowed, execution of activity in this way shall not be considered as the completion of Erection activity for payment.
- 4.11.3 After filling of oil in the storage tank and completion of oil filtration, oil testing for BDV, moisture content, tan delta & IFT shall be required to be carried out before filling in main tank as per Clause 4.12.
- 4.11.4 Filling of Transformer main tank, its cooler bank and complete assembly with prepared and tested oil under vacuum up to desired level. The required oil tanks, filter machine of capacity not lesser than 10KL & filter machine should be IS-6034 latest amended (Ultra High Vacuum type oil treatment plant preferably 10 KL per hour or more) and other accessories shall be arranged contractor.
- 4.11.5 Hot Oil Circulation of main tank with high vacuum filter machine and maintaining temperature in tank up to 60°C for 72 hrs to achieved desired insulation parameters of oil and PI values of winding while doing HOC oil temperature should not increase upto 65°C. IR values has to be recorded regularly at an interval of 4 hrs during the complete Hot oil circulation process. In the format provided by BHEL. The process shall be continued till clearance from BHEL is provided to end the process.

4.12 OIL TESTING - OF STORAGE TANKS

- 4.12.1 After filling of oil in the storage tank and completion of oil filtration, oil testing for BDV, moisture content, tan delta and IFT shall be required to be carried out before filling in main tank at a reputed NABL accredited lab acceptable to BHEL/customer.

4.13 OIL TESTING – BDV, MOISTURE CONTENT, IFT, TAN DELTA & RESISTIVITY OF MAIN TANK & OLTC – BDV & MOISTURE CONTENT

- 4.13.1 After completion of hot oil circulation, the testing of oil samples for BDV, Moisture Content, Tan-delta & Resistivity at 90°C and IFT of processed oil Main Tank & OLTC of each phase for BDV & Moisture Content before final charging of equipment shall be under scope of contractor. Testing shall be carried out from NABL accredited lab acceptable to BHEL/customer. **Acceptance norms for BDV of equipment is 70 KV or above and moisture content of less than 05 PPM.**

4.14 FINE FILTRATION & PARTICLE COUNTING

- 4.14.1 After HOC, E&C contractor has to maintain the filtration level of oil in Transformer, so as to achieve the desired value of particle count as per Table-I. If required E&C contractor may use the additional ultra-fine filtration machine to achieve the particle count as per BHEL standards. E&C contractor also required to arrange the equipment to measure the particle count of oil of Transformer after filtration from configurable kit which gives ISO counts alongwith cumulative and differential particle count in printable report immediately after measurement. The measuring equipment must have a valid calibration certificate at the time of measurement.

Table I Particle Count

If measured with particle counter which works on ISO 11171 and ISO 4406:1999 (cumulative count)	≥ 4 micron cumulative count should have a ISO count of 10 ,as per BHEL standard
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4.15 OIL TESTING – DGA BEFORE CHARGING

- 4.15.1 After obtaining desired parameters of oil testing as per Clause 4.13 & 4.14, Oil sample DGA of Main Tank before charging needs to be carried out from NABL accredited / BHEL /lab acceptable to customer / BHEL.

➤ **STAGE –V: TESTING & COMMISSIONING**

4.16 PRE-COMMISSIONING TESTS – LOW VOLTAGE TESTS

This activity will involve the following work:

4.16.1 After desired oil parameters are achieved and completion of settling time, the pre-commissioning tests shall be conducted on Generator Transformer. The list of tests to be carried out are as under:

- i) *Isolation test for CC, CL and tank*
- ii) *Measurement of Magnetization Current,*
- iii) *Contact Resistance measurement of joints of HV/IV/LV/Neutral etc.*
- iv) *Measurement of Turn Ratio at all tap positions before & after oil filling in GT.*
- v) *Measurement of Winding Resistance at all tap positions before and after oil filling in GT.*
- vi) *Measurement of Insulation Resistance and determination of PI (10/1 min value)*
- vii) *Measurement of particle count by particle count meter and carry out filtration for attaining the values as per BHEL standards.*
- viii) *Functional tests of all Accessories/ Marshalling box.*

The list of test and above scope of work is indicative and it may vary marginally as per BHEL norms/ customer requirements. All the tests shall be carried out by using calibrated instruments. Arranging all the test instruments shall also be in the Contractor's scope. However, any other jobs not mentioned above but required for successful completion of work is to be done by contractor at their cost. Contractor needs to arrange all required tools /special tools/ Insulation tester, Dew point meter, Multimeter etc and other consumables such as CRC, Cloth, Teflon tapes etc and expert Manpower for complete execution of work at site.

4.17 PRE-COMMISSIONING TEST - CAPACITANCE & TAN DELTA TEST OF BUSHING AND/OR WINDING

4.17.1 Following test shall be carried out under the scope of work:

- i) *Measurement of Capacitance and Tan delta of Bushings and Windings*

4.18 PRE-COMMISSIONING TEST – SFRA TEST

4.18.1 Sweep Frequency Response Analysis (SFRA) as per factory test combinations for all windings shall be carried out for Transformer. The signature of the test shall be submitted in hard copy as well as program file of the software which easily downloadable and readable in PC/laptop.

4.19 FINAL COMMISSIONING & HANDING OVER:

This activity will involve the following work:

4.19.1 Final connection with system providing assistance of Electrician / Manpower for pre charging checks and thorough checking of compatibility and functionality of Transformer protection with customer protection system, readiness for charging of the Generator Transformer, commissioning and handing over. Oil test / electrical testing whichever is required during different stages of E&C work lies in scope of contractor. DGA after 24 hrs charging of Generator Transformer needs to be carried out by contractor from NABL accredited / customer lab acceptable to customer / BHEL.

4.19.2 Handing over of all spares and accessories including oil to customer and obtaining completion certificate for different activities. Any minor details leftover should not be treated as waiver, the related items not mentioned in the scope of work (leftover) but found necessary will have to be carried out during the whole period of the contract.

4.20 PREPARATION AND SUBMISSION OF CHECK LIST/ TEST RESULTS AFTER COMPLETION OF WORK AT EACH STAGE

4.20.1 Submission of all the low voltage electrical test results in BHEL format signed by Contractor & BHEL/customer representative and submission of oil test report of NABL laboratory immediately after completion of test.

- 4.20.2 Submission of all records of various stages of pre-erection, erection in the prescribed BHEL format signed by Contractor and BHEL/Customer representative in the form of bound booklet & scanned copy. (Erection checklist shall be provided at time of award of contract). After completion of final commissioning and handing over equipment has and closure of all punch point, then contractor can take their porta cabin.

5.0 FACILITIES AND OTHER REQUIREMENTS AT SITE:

The facilities available at site and other requirements to be adhered at site while executing the work shall be as follows:

- 5.1 Contractor shall appoint minimum 7 nos. of Fitter, rigger, Electrician well-qualified, knowledgeable and having proven experience in E&C activities at site along and 1 Supervisor to lead/guide for execution/monitoring activities at site. Contractor needs to provide Manpower attendance on daily basis throughout while execution of works at site. While day to day management of the site and supervision of the works shall be the responsibility of Contractor's Engineer-In-charge/authorized representative, he will report to BHEL executive to assist him to discharge the overall responsibility of the execution of the project. He will have to regularly interact with BHEL and customer officials and appraise them on all aspects/developments at site.
- 5.2 The contractor will have to appraise BHEL officials on the progress of activities on site on daily basis and shall send the written progress report by email/fax to BHEL on weekly basis or as required by them.
- 5.3 Contractor is responsible to employ required number of skilled/semi-skilled and unskilled workmen as per site requirements to complete the entire project as per schedule. In order to expedite the work at site as per customer schedule – contractor is required to augment the Manpower and complete the work on priority basis is in the scope of work.
- 5.4 Contractor will have to ensure that the Health, Safety and Environment (HSE) requirements are clearly understood and faithfully implemented at all levels at site. They will have to ensure adequate safety precautions at site as per the various statutes and shall be entirely responsible for the complete safety of their workmen/employees & deploy qualified safety person to monitor entire E&C activities at site. Necessary Personal Protection Equipment's (PPE's) (such as Helmets, Goggles, safety Belts, Gloves, First aid box etc.) shall be provided to the worker/staff as per requirement during erection work.**

*** While execution of work all COVID / pandemic related guideline as issued by local administration / central government need to be followed at site.**

- 5.5 On award of contract, site documents as mentioned below shall be collected compiled, arranged by contractor from customer.
- i) Particulars of each employee employed by Contractor before start of work.
 - ii) Lorry receipt certificate of equipment, accessories received at site.
 - iii) Material verification and material receipt certificate.
 - iv) Site opening certificate.
 - v) Completion certificate
 - vi) Operational acceptance certificate
 - vii) Intimation of insurance claim on account of transit damage or erection damage must be obtained from site duly signed by customer & contractors on behalf of BHEL.
 - viii) Site closing certificate.

Further any other document required as per contract for installation services portion must also be obtained/ furnished to customer for fulfillment of contractual commitment.

- 5.6 All the instruments/equipment's required for erection, conducting all tests throughout E&C period shall be arranged by the contractor. All the instruments to be used shall be of reputed make and shall have valid calibration certificate.
- 5.7 Construction supply at one point will be provided by BHEL/Customer on free of cost basis. **However, the Contractor will have to arrange for Energy meter and required cable to tap the power supply from the point/distribution board provided at site by customer. All further distribution point of utilization as required shall also be contractor's responsibility.**
- 5.8 In the event of halt in work for whatsoever reason, if the BHEL requires for demobilization of the T&P from the site and re-deployment as per requirement then Contractor has to do so after receipt of such information

from BHEL in writing and hence, Contractor shall keep the provision for 1 (one) time mobilization and re-deployment in their scope for such contingencies

- 5.9 The Contractor will have to adhere and follow all the local rules and statutory requirements and as given in Annexure-IV, V, VI.

6.0 TERMS OF PAYMENT:

The payment shall be made to the contractor in parts after successful completion of activities as per the Scope of Work (Clause 4.0) mentioned above. The total quoted price is divided (in percentage terms) into 05 (five) stages containing group of activities as per price schedule (Annexure-I). The party can claim payment after successful completion of respective stage of work as per scope of work under Clause 4.0. An activity completion certificate stage wise endorsed by BHEL person shall be required to be attached with every bill to be raised.

Payment stage per Transformer is as under:

SI.No	Details of activities as per Scope of Work	Break-up of Price (in %)
1.0	Stage-I: Storage of Accessories (for detail refer Annexure-I)	5.0
2.0	Stage-II: Unloading and Placement of Main Tank on plinth (for detail refer Annexure-I)	22.0
3.0	Stage-III: Erection work (for detail refer Annexure-I)	27.5
4.0	Stage-IV: Dry out & oil circulation (for detail refer Annexure-I)	33.0
5.0	Stage-V: Testing & Commissioning (for detail refer Annexure-I)	12.5
	Total	100.0

The breakup of above stages / activities and percentage payment admissible against each activity as per scope of work is mentioned in price schedule (Annexure-I). The party can claim payment of Stage-I activity after final commissioning of Transformer. (Not applicable for spare unit).

Payment shall be released normally, within 60days after submission of the bills, with meeting all formalities in advance. All payment shall be release through electronic pay mode only. Party has to submit its bill within 30 days of the completion of service.

- 6.1 The Contractor has to submit the following documents with every bill:

- i) Wage sheet of manpower deployed.
- ii) Workmen insurance policy for workers at deployed at site.
- iii) PF deposit challan.
- iv) Stage of Activity completion certificate endorsed by BHEL representative & duly filled checklist of each stage of activity. (Checklist will be issued along with work order)
- v) Log sheet record of N2 pressure of main tank & cylinders endorsed by BHEL/Customer for with the bill against Stage-II (Annexure-I).

All the payment shall be made as per BHEL norms and is subject to deduction of **Security Deposit, Income Tax** at source as per the applicable rules and TDS will also be deducted under Income tax act. **Security Deposit recovered shall only be refunded after completion of defect liability period (as mentioned in clause 7.5 below).**

- 6.2 HSN code /SAC, rate of tax under GST and Applicable GST (IGST, CGST/SGST/UT/GST) and GSTIN shall be clearly mentioned by the bidder on invoice.

- 6.3 Bidder has to give his undertaking that GST portion of the **invoice shall be released only upon:**

- a) All invoices raised by contractors /vendors must be GST complaint Tax invoices as per GST invoices rules.

- b) Contractor declaring such invoices in his GSTR-1 or any modified return as notified by government. Also a declaration is to be given that the GSTR 3B has been filed / to be filed in month, year as per provision of GST Act.
- c) Receipt of good /services and tax invoices by BHEL and
- d) Confirmation of payment of GST thereon by contractor on GSTN portal.
- e) Contractor has to give an undertaking to BHEL that they have declared invoice in his return and paying GST within timeline prescribed for availing ITC by BHEL.

Payment to Contractor for GST portion will be released only after completion of above activity and on availment of ITC by BHEL.

6.4 In case GST credit is delayed/denied to BHEL due to **non/delayed receipt of services /goods and /or tax invoices** or expiry of the timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from contractor along with interest levied /leviable on BHEL.

6.5 **Reverse Charge under GST**

6.5.1 In respect of services, reverse charge liability shall arise at the earliest of date of payment to service provider or 60 days from the date of issue of invoice by service provider. Contractor has to submit bill for payment within 30 days from the date of invoice. Any interest or penalty implications attributable to the contractor shall be recovered from them.

6.5.2 Any GST liability arising on BHEL under reverse charge before actual receipt of goods 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 condition specified in GST Law.

6.6 **Penalty**

6.6.1 Penalty if chargeable from suppliers/ contractors as per NIT.

6.7 **Tax Deduction at sources**

6.7.1 TDS as per extent provisions of the GST Law shall be deducted from supplier/contractor bill.

7.0 **SCHEDULE OF WORK (COMPLETION PERIOD):**

7.1 The completion time for Generator Transformer shall be 2 months after getting written intimation from BHEL for commencement of work or from receipt of the last consignment for Generator Transformer (Main Unit & accessories) at site or readiness of plinth from customer side, whichever is later. The start date shall be arrived after considering as stated above.

7.2 The bidder will have to ensure before submission of his bids, that adequate manpower and resources are available at his disposal to be deployed at site in the above given time frame. Contractor has to mobilize man power and T&P within 7days, after receiving communication from BHEL TXX, Bhopal. If site conditions required augmentation of Man power same shall be arranged by Contractor in order to complete the work in work in scheduled time frame.

7.3 **PENALTY:** Penalty for intentional delay in work due to non-deployment of Manpower – T&P for start of E&C works / Stopping E&C works during execution / insufficient manpower during execution of work as per clause 5.1 / non-following of BHEL instruction's wrt of execution Engineer / Delay in deployment of testing agency at site shall be liable for penalty of 10%. In case of delay in work on account of non-arrangement of Nitrogen gas / delay in arrangement of oil testing / electrical testing which affects the completion of work will result in imposition of penalty @ 0.5% per week subject to maximum of 10% of the contract price shall be levied for the delay in completion of E&C work within contract period as stipulated period mentioned in clause 7.1.

7.4 **Defect liability period** will be applicable for a period of 12 months from the date of commissioning of the equipment. During the Defects Liability Period, the contractor shall at his own cost and initiative, correct, repair and/or rectify all defects of the work that may arise due to poor/ defective workmanship. Mobilization of T & P including crane, filter m/c etc., for attending erection deficiencies, will be contractor's responsibility. In event of failure to do so, BHEL may proceed to have such rectifications made by the others at the contractor's risk and cost.

- 7.5 BHEL reserve right to execute all activities mentioned in contract in **risk and cost** of contractor in case of non-mobilization of T&P and other required facilities during execution of E&C work at site. If the work is not executed or partly executed in absence of required facilities within the agreed time schedule/ as per customer required time schedule, in that case work shall be executed from alternate source available at site at the Risk and Cost of the Contractor along with overheads of BHEL. BHEL reserves the right to cancel the Work order and get the work executed from the alternate source(s) at Risk and Cost of the Contractor if there are instances in which Contractor stops the works without any reason or delaying the execution of work than penalty for delayed time period shall be as per clause 7.3 along with BHEL overheads. In such an event, it shall be obligatory on the part of contractor to make good any loss suffered by BHEL.

8.0 EXTRA WORK / ACTIVITIES:

The total work content envisaged in the tender and as mentioned in the scope of work (Clause 4.0) is to be undertaken on lumpsum basis and accordingly the contract price of work order only will be admissible. However, under exigencies which may arise due to unforeseen problems during erection, failure of equipment's or any other reasons, extra work/activities may be required to be undertaken, which is not covered in the scope of work. BHEL will then ask the contractor to carry out such extra work/activities, a prior consent will be required from BHEL authorized official before undertaking any such extra work activities.

The applicable rates for extra work/ activities have been fixed by BHEL as a percentage of awarded Unit Price of that particular Transformer in question as per Annexure-II (Sr.no: 1 to 8). The bidders are required to quote for their Unit Price (in Rs) for undertaking E&C of Transformer in price schedule (Annexure-I) only. After finalization of tender, the awarded Unit Price of Transformer shall be multiplied with respective percentages of extra work/ activity as given in Annexure-II (Sl.no: 1 to 8) to derive price in Rupees of that activity.

The extra work may also arise from the main scope of work and if any activity from (Annexure-I/S.No.1/1.1 to 1.20) is required to be repeated due to above unforeseen problems or any other reasons which is not attributable to the Contractor. The awarded Unit price of Transformer shall be multiplied with respective percentages of activity (as per Annexure-I/S.No.1/1.1 to 1.20) to derive price in Rupees of that activity.

9.0 MANDATORY REQUIREMENT FOR CONSIDERING THE OFFER:

The tender shall be governed by following mandatory requirements for considering the offer:

- 9.1 **QUALIFYING CRITERIA:** Only those parties who fulfill the following eligibility criteria shall be considered for participating in the tender:
- 9.1.1 Average Annual financial turnover of the firm for last 3 Financial years upto 31st March'2022, should be at least Rs 3.10 Lakhs.
Following documentary proof must be submitted as proof of Average Annual Turnover:
- a. Audited Profit & Loss Account and Balance Sheet must be submitted as proof of Average Annual Turnover. The financial statements must be signed by the owner and the auditor. Auditors seal, name, fire name, Membership No., FRN No., UDIN and the capacity in which he is signing (Proprietor/ Partner), must be mentioned on the Profit & Loss A/c and Balance Sheet.
 - b. In case of proprietorship and partnership where Audited Profit and Loss A/c and Balance Sheet is not available, CA certificate certifying turnover for the required financial years must be submitted, which must be on his letter head mentioning his and his firm name, membership number, FRN no, UDIN, capacity in which he is signing (Proprietor / Partner), date and place of signing.
- 9.1.2 Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:
- a. One similar completed work costing not less than the amount equal to Rs 8.27 Lakhs.
OR
 - b. Two similar completed each works costing not less than the amount Rs 5.17 Lakhs.
OR
 - c. Three similar completed each works costing not less than the amount equal Rs 4.14 Lakhs.

Similar works means erection, testing & commissioning of 400kV or higher class Transformers / Reactors The parties will have to furnish following documents in support of their firm meeting anyone of the above criteria:

- i) Complete copy of letter of award (LOA)/ work order.
- ii) Work completion certificate / MOM of respective LOA / work order.

Note: Bidders may note that only the cases in which the work has been awarded directly by manufacturer/utility/Importer of transformer/reactor shall be considered and all other works, which has been sub-let by another contractor, will not be accepted for qualifying in the tender.

- 9.2 Permanent Income tax account number (PAN) and Goods & Services Tax Identification Number (GSTIN).
- 9.3 Copy of Permanent Provident Account Number.
- 9.4 The contractor shall possess valid Electrical License.
- 9.5 All the workmen deployed at site shall be covered under workmen compensation insurance. The insurance policy will have to be taken after award of work its copy shall be submitted on award of contract. An undertaking in this regards will have to be given along with the offer.
- 9.6 Tender cost of Rs. 500/- in favor of BHEL Bhopal as per Annexure-III/Clause 2.9. GST shall be extra.
- 9.7 Earnest Money Deposit as per Annexure-III/Clause 3.0
- 9.8 A "No Deviation Certificate" in the prescribed format as per Annexure-VII will have to be compulsorily attached with the offer.

The price schedule format, rates of optional activities, Terms and Conditions stipulating tendering procedure, EMD, Security Deposit, General Conditions of Contract, Special Conditions of Contract, Instructions to Contractor Code for Safety Management at Sites, Statutory Liabilities of the Contractor, No deviation format, Organizational information and format for related party undertaking are enclosed in Annexure-I to IX. The tenderer is advised to study these annexures and put up signature with seal as acceptance of various clauses.

For and on behalf of BHEL Bhopal,



श्री श्री श्री कृष्ण चंद्रा सिंघ
ऑफिस / Manager
आ. प्रकल्प, डी.पी. / Purchase Services Division
आ. प्रकल्प, डी.पी. - भवन, पंजाब, भोपाल

Krishna Chandra Singh
(Manager/TXX)

Enclosures: Annexure-I to Annexure-IX, as above

PRICE SCHEDULE

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

Sub.: Receipt, unloading, handling, storage, erection, commissioning and handing over of 1 No. x 200 MVA 400 KV 1- Ø Generator Transformer at M/s Chandrapur Super Thermal Power Station, MSEB Chandrapur, Maharashtra.

1. Break-up of Unit Price (in %)

Sl. No.	Details of activities as per Scope of Work	Unit	% of total price quoted per unit	Qty	Total activity price quoted
A	B	C	D	E	F = D x E
STAGE – I: STORAGE OF ACCESSORIES					
1.1	Arrangement for storage of material	% Lumpsum	5.00	Lumpsum	5.00
STAGE – II: PLACEMENT OF MAIN TANK ON PLINTH					
1.2	Unloading/ Loading of main tank from road trailer	% Lumpsum	12.00	Lumpsum	12.00
1.3	Dragging of main tank upto the plinth including rotation	% Per Meter	0.10	100	10.00
STAGE – III: ERECTION WORK					
1.4	Receipt, unloading, verification, storage, up-keep and handling of accessories	% Lumpsum	10.0	Lumpsum	10.0
1.5	Pre-erection test (all CTs & Core Isolation)	% Lumpsum	2.50	Lumpsum	2.50
1.6	Pre-erection test - (Capacitance & Tan delta test of bushings)	% Lumpsum	2.50	Lumpsum	2.50
1.7	Physical inspection / Pressure Test on Individual Radiator of Radiator Bank before Erection	% Lumpsum	2.50	Lumpsum	2.50
1.8	Cleaning of Radiator/Cooler Bank & Associated pipe works –with compressed air followed by Flushing with Transformer oil.	% Lumpsum	2.50	Lumpsum	2.50
1.9	Erection of main tank accessories, Cooler bank and Cabling work	% Lumpsum	7.50	Lumpsum	7.50
STAGE – IV: DRYOUT & OIL CIRCULATION					
1.10	Required N2 dryout Cycle	% Lumpsum	10.00	Lumpsum	10.00
1.11	Oil preparation, Oil filling and Hot Oil Circulation	% Lumpsum	8.00	Lumpsum	8.00
1.12	Oil testing - BDV, Moisture, Tan δ & IFT of storage tanks	% Per Sample	0.50	04	2.00
1.13	Oil testing - BDV, Moisture, IFT, Tan δ & Resistivity of main tank & OLTC –BDV & PPM	% Lumpsum	2.00	Lumpsum	2.00
1.14	Oil testing – Particle count of main tank	% Lumpsum	10.00	Lumpsum	10.00
1.15	Oil testing - DGA before charging	% Lumpsum	1.00	Lumpsum	1.00
STAGE – V: TESTING & COMMISSIONING					
1.16	Pre-commissioning test - Low Voltage test	% Lumpsum	2.50	Lumpsum	2.50
1.17	Pre-commissioning test - Capacitance & Tan delta test of bushing and/or winding	% Lumpsum	2.50	Lumpsum	2.50
1.18	Pre-commissioning test - SFRA Test	% Lumpsum	2.50	Lumpsum	2.50
1.19	Final commissioning & handing over	% Lumpsum	2.50	Lumpsum	2.50

1.20	Preparation and submission of the Check list/ test results after completion of each stage of activity	% Lumpsum	2.50	Lumpsum	2.50
2.0	Total Price (%)				100

2. Price to be quoted bidder's (in Rs)

Sl. No.	DETAILS OF WORK	UNIT PRICE (exclusive of taxes and duties) (In Rs.)	Qty. (In Nos.)	TOTAL PRICE (exclusive of taxes and duties) (In Rs.)
A	B	C	D	E=CxD
2.1	Price for Receipt, unloading, handling, storage, erection, commissioning and handing over of 200 MVA 400 KV 1-Ø Generator Transformer at M/s. CSTPS, MSEB – Chandrapur as per entire scope of work clause 4.0 of tender.	UNIT PRICE IN WORDS :	1 (One)	TOTAL PRICE IN WORDS :

Note:

- 1) **Applicable GST shall be paid extra.** Any loss of tax credit due to the reason attributable to contractor shall be recovered from them along with interest.
- 2) **The offers will be evaluated on the basis of total lump sum price quoted above in Row "2.1".** The quoted rate shall remain firm throughout the contract period and no variation/escalation what so ever during the contract period shall be allowed and also **in case of change in Maharashtra.**
- 3) The unpriced Price Bid mentioning "Quoted" against above rates shall be submitted in the offer along with the signed copy of the NIT with all the Annexures.
- 4) If, in the price structure quoted for the required services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the **BHEL** there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- 5) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected: and
- 6) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (4) & (5) above.
- 7) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the **BHEL**, the bid is liable to be ignored.
- 8) Bid should be free from correction, overwriting, using corrective fluid etc. any interlineation, cutting or overwriting shall be valid only if they are attested under full signature (s) of person (s) signing the bid, else bid shall be liable for rejection.
- 9) All overwriting/ cutting etc. will be numbered by bid opening officials and announced during Bid opening. In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders (party has to be submit revised discounted price bid in tender room box). In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s). Ranking will be done accordingly. **BHEL's** decision in such situations shall be final and binding.

(Signature & seal of Bidder)

RATES OF EXTRA WORK / ACTIVITIES

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

Sub.: Receipt, unloading, handling, storage, erection, commissioning and handing over of 1 No. x 200 MVA 400 KV 1- Ø Generator Transformer at M/s Chandrapur Super Thermal Power Station, MSEB Chandrapur, Maharashtra.

Sl. No.	DETAILS OF ACTIVITY	UNIT	% of total price quoted per unit as per Annexure-I
1	To carry out complete oil draining from Transformer, isolating the cooler bank, dismantling/ packing of turrets, bushing, pipe work, Instruments, Wiring etc.	% Lumpsum	15.00
2	Long Boom Crane suitable for Bushing Erection	% Per Hour	0.30
3	High Vacuum Filter Machine of capacity 6000 LPH or more	% Per Day	0.50
4	Oil Storage tank of capacity 20 KL or more	% Per Day	0.30
5	Supply of heaters for heating the Transformer upto 60°C under N2 filled condition and enclosure for controlling the heat loss	% Lumpsum	4.00
6	Supply of Labour for repair/ rectification/ modification, additional work	% Per Manday	0.05
7	Supply of N2 Cylinders	% Per Cylinder	0.10
8	Dragging of main tank upto the plinth including rotation	% Per Meter	0.10

(Signature & seal of Bidder)

TERMS AND CONDITIONS

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

1.0 DEFINITIONS:

The following terms and expressions shall have the meaning hereby assigned to them, except where the context otherwise requires:

- 1.1 'BHEL' shall mean Bharat Heavy Electricals Limited, a Company registered under the Indian Companies Act, 1956 with its Registered Office at BHEL House, Siri Fort, New Delhi, Pin-110049 through its office at Piplani, Bhopal – 462022 or its authorized Officers or its Engineers or other employees authorized to deal with any matters with which these persons are concerned on its behalf.
- 1.2 'CONTRACTOR' or 'FIRM' shall mean the individual, firm or Company providing the services and shall include their executors, administrators, successors and permitted assigns.
- 1.3 'CONTRACT' or 'CONTRACT DOCUMENT' shall mean and include guidelines and declarations of the registration, the General Terms & Conditions and Statutory Compliances, schedules of quantities, accepted appendices of rates, if any, technical specifications, special specifications, if any, Letter of Intent, agreement & the work order, issued by BHEL.

Any conditions or terms stipulated by the bidder in the tender documents or subsequent letters shall not form part of the Contract unless specifically accepted in writing by BHEL and incorporated in the work order.

- 1.4 'TENDER DOCUMENTS' shall mean Instruction to Tenderers, General Terms & Conditions, Special Conditions, Tender Specifications including drawings and any other documents issued to the bidder against invitation of bid.
- 1.5 'LETTER OF INTENT' shall mean the intimation by a letter / email / fax to the bidder that the tender has been accepted in accordance with provision contained in that letter. The responsibility of the Contractor commences from the date of issue of this letter and all the terms and conditions of Contract are applicable from this date.
- 1.6 'APPROVED, DIRECTED or INSTRUCTED' shall mean approved, directed or instructed by BHEL concerned authorities.
- 1.7 'WORK' or 'CONTRACT WORK' shall mean and include the work to be done in relevant work category by the firm or as specified in the Tender documents.

2.0 TENDERING PROCEDURE :

The tender shall be accepted and processed as follows:

The Tender shall be submitted in **TWO PARTS**, as described below:

2.1 PART-I: (TECHNO-COMMERCIAL BID) : This part shall consist of the following

- i) EMD of amount, equivalent to value as per Annexure-III/Clause No. 3.0 below, drawn in favor of "**Bharat Heavy Electricals Limited**" payable at **Bhopal** shall be enclosed. In the absence of submission of EMD, the offer will be summarily rejected.
- ii) Tender Fees of **Rs. 500/-** in favor of "**Bharat Heavy Electricals Limited**" shall be accepted through electronic-Mode only in favor of BHEL as detailed in Annexure-III/Clause 2.9 –below. In the absence of submission of same, the offer will be rejected. GST shall be extra.
- iii) Techno-commercial offer comprising of:
 - a) Confirmation of Scope of Work, Supporting documents for qualification criteria and other clauses as applicable etc.
 - b) Un-priced copy of PRICE FORMAT. *The un-priced copy of the Price bid format shall be the same as the Price bid but without the Prices. All the quoted Prices/Rates etc. shall be replaced with the word 'QUOTED' or 'Q', in the un-priced copy.*

2.2 PART-II: (PRICE BID)

- i) Format containing **PRICES** only (**to be furnished in the enclosed Price Schedule format only**). Prices shall be quoted in Indian Rupees only. Price Bid should not contain any technical details and/or Commercial Terms & Conditions as the same are supposed to be contained in PART-I only so that the same can be evaluated before opening of Price Bid(s).
- ii) Price bids of only techno-commercially short listed vendors will be opened.
- iii) The above two bids (**Part-I and Part-II**) shall be enclosed in a sealed envelope and shall have tenderer's distinctive seal and shall be super-scribed with the **TENDER REF. NO and DUE DATE**.

2.3 The Tender shall be addressed to the following:

To,

**THE TENDER ROOM ('GREEN COLOURED WORKS CONTRACT TENDER BOX')
ADMINISTRATIVE BUILDING, GROUND FLOOR,
BHARAT HEAVY ELECTRICALS LTD,
P.O. PIPLANI, BHOPAL (M.P.) Pin-462022.**

- 2.4 The tender shall be dropped in the above stipulated tender box positively **before 11.00 hrs on the due date (as mentioned above)**. It will be bidder's responsibility to ensure submission of tender in the designated "**Green Coloured Works Contract Tender Box**" before expiry of due date and time. Any tender which is received after **11.00 Hrs on the due date and subsequently** shall not be considered and will be returned to the sender. No explanation/ reasoning for late submission/receipt of tender will be entertained.
- 2.5 In case, Bidders wants to deputing their representative at BHEL Bhopal for dropping their offer in the tender box then bidder has to obtain security gate pass for reaching at tender box. In such case, bidders shall have to send personal details to BHEL at least one day in advance for obtaining security gate pass.
- 2.6 Bidders may note that the PART-I: (TECHNO-COMMERCIAL BID) of the tender shall be opened in tender room of BHEL Bhopal on tender due date after 14.00 hrs in presence of those tenderer's who choose to be present. PART-II (PRICE BID) of only those bidders whose offers will be techno-commercially short listed after scrutiny will be opened later.
- 2.7 The tenderer is advised to satisfy themselves for work environments & be acquainted with the actual working and other prevalent conditions regarding organizing resources to various sites across the country prior to submission of tender. No claim will be entertained later on grounds of lack of knowledge.
- 2.8 In case of any query/doubt on the tender specifications, bidder can contact the concerned authority for clarification before tender submission. No modification/ deviation w.r.t. any clause, terms & conditions etc shall be acceptable after opening of tender.
- 2.9 **Cost of the Tender documents is Rs. 500/- (Rupees Five Hundred only) & GST rate as applicable shall be extra**, shall be accepted through electronic-Mode only in favor of BHEL (NEFT/RTGS/Net Banking/POS/SB Collect etc.). The procedure of tender fee deposit is given in Clause 5.0 below. Tender received without remittance of tender cost will not be considered & will be rejected.

3.0 EARNEST MONEY DEPOSIT (EMD) :

Earnest Money Deposit will be as per the tender documents. EMD is to be paid by each tenderer for securing fulfillment of any obligation in terms of NIT.

3.1 Rates of EMD shall be as under:

3.1.1 For works / services: **Rs 20,685/-**

The bidder can also opt for submission of one time EMD of Rs. 5 Lakhs which will qualify him to participate in all other tenders.

3.2 MODES OF DEPOSIT:

EMD shall be accepted through Electronic-Mode only in favor of BHEL (NEFT/RTGS/Net Banking/POS/SB Collect etc.). The procedure of EMD deposit is given in **Clause 5.0 below**.

EMD can also be accepted in the form of FDR issued by Schedule Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).

In case total EMD amount is more than to Rs. 2 Lakhs, the amount in excess of Rs. 2.0 Lakhs may also be accepted in the form of Bank Guarantee from scheduled bank. The Bank Guarantee in such cases shall be valid for at least six months.

3.3 FORFEITURE OF EMD:

EMD of the Tenderer shall be forfeited as per NIT conditions, if:

- i) After opening of the tender and within the offer validity period, the Tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.
- ii) The contractor fails to deposit the required Security Deposit or commence the work within the period as per LOI / Contract.

EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with Suppliers / contractors" and forfeited / released based on the action as determined under these guidelines.

3.4 EMD given by all unsuccessful tenderer shall be refunded.

3.5 EMD shall not carry any interest.

3.6 EMD of the successful Bidder shall be converted and adjusted against the security deposit and shall be refunded after the expiry of the warranty period / defects liability period as applicable.

4.0 SECURITY DEPOSIT (SD) :

The Security Deposit means the security provided by the Contractor towards fulfillment of any obligations in terms of the provisions of the contract.

- 4.1 The total amount of Security Deposit will be **3%** of the contract value. EMD of the successful Bidder shall be converted and adjusted towards the required Security Deposit.
- 4.2 Bidder has to submit performance security (SD) required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6 %) for the delayed period shall be submitted by bidder. Further, if performance security is not submitted till such time the first bill become due, the amount of performance security shall be recovered from the bills along with due interest.

4.3 **MODES OF DEPOSIT:**

The balance amount to make up the required Security Deposit (SD) of **3%** of the contract value may be accepted in the following forms:

- i) SD shall be accepted through electronic-Mode only in favor of BHEL (NEFT/RTGS/Net Banking/POS/SB Collect etc.). The procedure of SD deposit is given in Clause 5.0 below.
- ii) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee Format should have the approval of BHEL
- iii) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the contractor, A/c BHEL).
- iv) Securities available from Indian Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of the Contractor furnishing the security and duly endorsed / hypothecated / pledged, as applicable in favour of BHEL).

Note: Acceptance of Security Deposit against Sl. no. (iii) and (iv) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

4.4 COLLECTION OF SECURITY:

- i) At least 50% of the required Security Deposit, including the EMD, should be collected before start of the work. Balance of the Security Deposit can be collected by deducting 10% of the gross amount progressively from each of the running bills of the Contractor till the total amount of the required Security Deposit is collected.
- ii) If the value of work order at any time exceeds the contract value, the amount of Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall be immediately deposited by the contractor or recovered from payment/s due to the contractor.
- iii) The recoveries made from running bills (cash deductions towards SD amount) can be released against submission of equivalent Bank Guarantee in acceptable form, but only once, before completion of work.
- iv) EMD of the successful tenderer shall be converted and adjusted against the security Deposit
- v) Security Deposit shall be released to the contractor upon fulfillment of contractual obligations as per the terms of contract.
- vi) The Security deposit shall not carry any interest.

5.0 PROCEDURE OF DEPOSITING EMD/SD/TENDER FEE

EMD/SD/ Tender Fee will be accepted only in electronic Mode, which can be deposited on line through following link as mentioned below: <https://www.bhelbpl.co.in/qcins/iccs.htm>.

The procedure of depositing EMD/SD/Tender Fee is below:

- a. For depositing amount online, depositor has to open SB- collect through Online E-Payment option available on Internet (www.bhelbpl.co.in under caption new link).
- b. After reading the instruction for depositing the amount; EMD & Tender Fee amount shall be deposited. EMD and Tender Fee may please be deposit together under EMD module where the EMD & Tender Fee both are applicable.
- c. After the successful payment DU No. shall be generated from the banking system.
- d. After depositing the amount, Depositor has to fill Deposit slip available on Internet (www.bhelbpl.co.in under caption new link) by selecting required Enquiry number. Tender Fee and EMD may please be enter separately.
- e. As and when credit received in BHEL account, automatic mail sent to the depositor.

Note: - After submitting the Deposit Slip a control number will be generated through system which can be used for getting print out from the system, Bidder's has to submit this printout of deposit slip along with their offer.

6.0 GENERAL CONDITIONS OF CONTRACT

- 6.1 The agencies which are currently under hold/ban/suspension of business dealing with BHEL and communicated thereof shall not be considered in this tender.
- 6.2 The tenderer has to confirm all clauses of as mentioned above, Deviations, if any, have to be recorded clearly, against the respective serial number. All the documents of the tender shall be signed by tenderer on every page and sent with the offer.
- 6.3 **Offers will be evaluated on the basis of total lump sum price at each site as per schedule of prices.** The break up of price (in percentage as mentioned in "Terms of payment") is for the purpose of payment after successful completion of each activity by the contractor.
- 6.4 For the **Extra Work / Activities**, the applicable rates are mentioned in Annexure-II-Rates of Extra Work/ Activities. These rates are mentioned against each activity as a percentage of total Contract price of one Transformer / Reactor mentioned in price schedule (Annexure-I)

- 6.5 All the quoted prices shall be **exclusive of GST**.
- 6.6 The offer should be valid for minimum of 90 days from the date of opening the bid.
- 6.7 The bidders shall be required to submit furnish their organizational information in the format attached herewith as Annexure-VIII.
- 6.8 Over run charges shall not be applicable.
- 6.9 If the tenderer attaches any other conditions in the offer, than due to its implications prices may be loaded to the quoted price during evaluation.
- 6.10 All tender papers dully filled in and signed by the tenderer must be returned with the offer as proof of the acceptance of the conditions of the Contract.
- 6.11 Official Secret Act: The firm shall give an undertaking under the official secret Act for maintaining secrecy of the drawings, documents or other records connected with the work given to them. The firm shall return all the drawings/documents given to them.
- 6.12 Mode of Communications: Generally, all communications, references etc. shall be delivered through email, fax or given to the authorized supervisor. It will be undertaken that the firm has read and understood the message, within 3 days of the delivery, even if they have not received / not opened/ having any problems on their side. Firm shall communicate their change of authorized supervisor, email address in advance.
- 6.13 All communications shall be made by/addressed to on behalf of BHEL by following officer or his authorized representatives. Any change will be informed time to time.
Addl. General Manager, Transformer Service Department, Bharat Heavy Electricals Ltd, P.O. Piplani, Bhopal (M.P.) Pin-462022, Tel./Fax : 0755-2502539/2500485, Email : txx.bpl@bhel.in.

7.0 SPECIAL CONDITIONS OF CONTRACT:

The tender shall be governed by general conditions which are as follows:

- 7.1 BHEL does not bind themselves to award the work to lowest tenderer or any other bidder. It will be it sole discretion to process or cancel the tender and no reason/explanation shall be given for their decision.
- 7.2 The tenderer should engage only those workers for the works, which are covered under their P.F. & E.S.I. Registration, Payment of premium for P.F., PAN No. & E.S.I. of engaged workers shall be the responsibility of the contractor and they should submit documentary proof of the same to BHEL.
- 7.3 The prices shall be firm and final and shall be quoted strictly in the price-bid format provided in the Annexure-I. Applicable GST shall be paid extra against proof of their deposition in the accounts of government.
- 7.4 The Contractor shall follow all the statutory compliances and all the prevailing Industrial / Labour laws/ Govt. laws, statutory safety clauses as amended from time to time including as per Annexure-IV to VI.
- 7.5 In order to expedite the work required additional Manpower and T&P needs to be arranged by Contractor without any extra charges. failure in doing so, BHEL reserve the right to expedite the work at risk and cost of Contractor (in that respect whereof the decision of the BHEL shall be final and binding) becomes necessary, the Contractor shall execute the same as may be directed.
- 7.6 The firm shall ensure that no damage is caused to any person/any existing work/property of BHEL/other parties working inside the customer premises. If any such damage is caused, it shall be the responsibility of the firm to make good the losses and compensate the affected parties at his own cost.
- 7.7 The Contractor shall not sublet, transfer or assign the whole or any part of the work under the Contract.
- 7.8 The decision of BHEL regarding interpretation of any terms and conditions set forth in the Agreement shall be final and binding on the Contractor. In case the Contractor does not carry out the Contractual/statutory obligations or the services rendered by him are found to be unsatisfactory, it will be brought to HIS notice first to rectify the deficiency/ anomaly within (15) days failing which BHEL reserves the right to impose the penalty

maximum 10% of the Contract price in the and/or terminate the Contract without assigning any reason whatsoever. In such an event, no damages will be payable for short closure of the Contract.

- 7.9 Without prejudice to the aforesaid clause, BHEL reserves its right to terminate the Contract without assigning any reason thereof by giving 30 days' notice in writing to the Contractor. For execution of E&C works at site, construction power supply will be provided at site, available power supply at Power station shall be availed by E&C contractor and the required length of cable shall be arranged by Contractor.
- 7.10 Contractor's and its operator needs to follow all COVID related guidelines of particular region as issued from time to time by local authorities/ Central Government. Necessary required testing as per COVID protocol for DG set operator/ E&C team at needs to be arranged by Bidder at site. Contractor shall appoint a well-qualified, knowledgeable and experienced Operator's staff to operate the DG set round the clock / as per site requirements to complete the entire work at site. Charges on arrangement of Operator shall be in scope of work and included in contractor's bid against the Tender.
- 7.11 The cancellation of Contract may be either for whole or part of the Contract at BHEL's option. In the event of termination of Contract in whole or part BHEL may procure upon such terms and in such manner as deemed appropriate, supplies or services similar to those so terminated and the Contractor shall be liable to BHEL for any excess costs for such similar supplies or services provided that the Contractor shall continue the performance of this Contract to the extent not terminated under the provisions of this clause.
- 7.12 All disputes arising in connection with the Contract shall be settled by mutual consultation. If no agreement is reached the dispute shall be settled in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the rules made there under. The dispute shall be referred for arbitration to any arbitrator to be appointed by the Head of the Unit. The award of the arbitrator shall be final and binding on both the Parties. The venue of the Arbitration shall be Bhopal in India. The Award to be given by the Arbitration shall be a speaking award. All questions, disputes, differences arising under, out of or in connection with this Contract shall be to the exclusive jurisdiction of Hon'ble Court of Madhya Pradesh.
- 7.13 The firm will be required to sign a Contract with BHEL on a proper Non-judicial stamp paper of Madhya Pradesh, in a prescribed format before start of work. The cost towards agreement shall be borne by the firm.
- 7.14 The bidder will have to ensure before submission of his bids, that adequate manpower and resources are available at his disposable to be deployed at site in the above given time frame. The final work schedule may vary depending on the prevalent site conditions and customer requirements and may be revised for early completion of respective activities/readiness of charging during the course of execution. These revised targets shall be informed to Contractor by BHEL time to time. Accordingly, Contractor has to meet such targets set out by the customer/BHEL by augmenting their resources. The Contractor shall have to work in parallel at more than one Transformer / Reactor as may be required during execution of work to meet the targets for readiness of charging set out by the customer and informed by BHEL to Contractor time to time.
- 7.15 In the event of schedule is delayed for the reason beyond Contactor's control, the Contractor shall keep the provision for continuing the work upto one year beyond above completion period if so considered by BHEL for time extension of Contract Agreement. In such case, the rates as quoted in Price Schedule will be applicable for the extended period.
- 7.16 BHEL may also increase/decrease the quantity of equipment's/items included in the work content. Pro-rata rates shall be paid to the Contractor for the same.
- 7.17 RIGHTS OF BHEL:

BHEL reserves to itself, the following rights without entitling the Contractor to any compensation: -
Resorting to any, some, all of the actions like Contract termination, recovering the dues/ losses from the Security Deposit and the Contract amount, forfeiting the Security Deposit, getting the work done through other agencies at the cost of the Contractor, cancellation of registration, banning the business with BHEL etc., in any event of the followings:

- a) Contractor's repeated poor performance, withdrawal from or abandonment of the work, except in force majeure conditions.
- b) Serious lapse in performance, Persistence disregard of the BHEL instructions.
- c) Insolvency of the Contractor.
- d) Assignment, transfer, subletting of the Contract work without BHEL's written permission.

e) Non-fulfillment of any Contractual obligations or obligations under the law.

7.18 FORCE MAJEURE:

The following shall amount to force majeure conditions: Acts of God, act of any Government, War, sabotage, riots, civil commotion, police action, flood, fire, cyclone, earthquake, epidemic and other similar causes over which, no Contractor has any control. In such cases, firm shall resume their operations after reasonable and mutually agreed time.

Notwithstanding anything contained in the contract, neither BHEL nor the Contractor shall be held responsible for total or partial non-execution of any of the contractual obligations, should the obligation become unreasonably onerous or impossible due to occurrence of a 'Force Majeure' which directly affects the obligations to be performed by the BHEL or the contractor; Such events include war, military operations of any nature, blockages, revolutions, insurrections, riots, civil commotions, insurgency, sabotage, acts of public enemy, fires, explosion, epidemics, quarantine restrictions, floods, earthquake, or acts of God, restrictions by Govt. authorities; over which the BHEL or the contractor has no control.

The party claiming to be affected by force majeure shall notify the other party in writing without delay, within two weeks from the occurrence of such situation and on the cessation thereof. Extension of time sought by the contractor along with supporting evidence and so granted by BHEL for the work affected, if any, shall not be construed as waiver in respect of remaining execution. Rescheduling of execution on account of force majeure conditions, if so agreed by BHEL, will not entail the contractor to claim any increase in the price on whatsoever account.

Notwithstanding above provisions, BHEL shall reserve the right to cancel the Contract, wholly or party, in order to meet the overall project schedule and make alternative arrangements. If deemed necessary, BHEL may takeover partly processed work at a mutually agreed price

INSTRUCTIONS TO CONTRACTOR

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

1. BHEL shall have the privity of the Contract with the Contractor only and will give instructions to the Contractor or his authorized representative. BHEL will have nothing to do or be concerned with the employment of employees working for the Contractor. The relationship between BHEL and the Contractor will be that of independent entities and nothing herein contained will amount to joint venture, partnership or an employer-employee relationship.
2. The Contractor shall maintain regular contact with the designated employee(s) of BHEL and will interact on matters relating to the work awarded under this Contract.
3. Contractor will ensure that the job is executed through his employees on his rolls and under no circumstances the Contractor will deploy any casual employee to carry out the job nor shall sub-Contract the job without prior written permission.
4. Contractor shall observe Provisions of the relevant labour law in respect of working hours, holidays, rest intervals, leave and overtime to his employee. .
5. Contractor shall obtain Police Verification of all his workers.
6. Contractor shall submit following Certificate for each Contract separately.

"It is certified that PF challans of the amount ----- pertains to my workers whose names are appearing in the wage sheet of the month ----- and these workers are engaged in ----- (type of work) against work order no. ----- in ----- (name of department).

Signature of Contractor

PAYMENT OF WAGES

- i) Contractor shall be responsible for making payment of wages through Bank/Cheque before expiry of 7 days from the last day of wage period and to ensure disbursement of wages and shall record under his signature at the end of entries in the Register of wages in the following form. This will not be related with payment by BHEL to contractor.

"Certified that the amount shown in column no. has been paid to the workers concerned in my presence on date at time....."
- ii) In case Contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities, the security deposit /other dues under the Contract can be utilized by BHEL to discharge the liability of the Contractor.

SAFETY AND DISCIPLINARY ACTION

1. Contractor shall ensure that his employee do not indulge in any unsafe or hazardous practices. They use safety equipment such as safety belts, safety shoes, goggles, helmet and masks where use of such equipment is required in day-to-day operations. All such safety gadgets will be provided by the Contractor failing which BHEL will provide safety equipment to such Contractor employees and cost of which including overheads as deemed fit shall be recovered from Contractor bills/dues. Contractor shall fully indemnify BHEL against any claim for damages for injury to person or property resulting from such accidents.
2. Contractor to ensure that employee deployed in the premises is physically and mentally fit and do not have any criminal record.
3. Contractor will be responsible for good conduct of his employees. In case of misconduct, Contractor shall take prompt disciplinary action as per "Model Standing Orders" on the advise of Contracting officer.
4. The Contractor has to provide a distinct uniform different from BHEL employees. The Uniform should have logo of the Contractors firm / company. The uniform shall be kept in neat, tidy and wearable condition. Wherever necessary, the Cap shall be integral part of the uniform.

5. BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below.
 - a) Victim: Any person who suffers permanent disablement or dies in an accident as defined below.
 - b) Accident: Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing/ operation and works incidental thereto at BHEL factories/ offices and precincts thereof, project execution, erection and commissioning, services, repairs and maintenance, trouble shooting, serving, overhaul, renovation and retrofitting, trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ Project Sites.
 - c) Compensation in respect of each of the victims:
 - (i) In the event of death or permanent disability resulting from Loss of both limbs: Rs. 10,00,000/- (Rs. Ten Lakh)
 - (ii) In the event of other permanent disability: Rs. 7,00,000/- (Rs. Seven Lakh)
 - d) Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to Section 2 (I) of the Employee's Compensation Act, 1923."
6. Contract awarded is liable for termination for any contravention of statutory provisions or any other reasons without assigning any explanation or notice to the Contractor.
7. Contractor shall fully comply provisions of various applicable labour laws.

RECORDS & INFORMATION TO BE FURNISHED BY CONTRACTOR

1. Contractor shall maintain neatly, completely and legibly registers, records, reports and returns for inspection by various authorities at short notice.
2. Contractor shall submit the details of work awarded to him by other departments indicating work order No., nature of work and maximum number of workers employed etc.
3. Contractor shall provide information as required in respect of all his employees employed by him to enable the Contract operating division to monitor compliance of P.F./ESI and also to enable him to furnish information to Ministry and Labour deptt. as may be required.
4. Contractor shall provide full particulars of each employee employed by him before start of the work and from time to time. He will also endorse a copy of returns furnished by him to the Labour Department under the Contract Labour (Regulation and Abolition) Act 1970.

COMPLIANCE OF STATUTORY PROVISIONS

Contractor shall fully comply various labour laws and other enactments as applicable for such Contracts.

- .. Contract Labour (R&A) Act 1970 and rules 1971.
- .. Payment of Wages Act.
- .. Minimum Wages act 1948, M.P. Rules 1958
- .. Employees State Insurance Act 1948, Rules and regulations 1950
- .. Employees Provident Fund Act 1952 and Pension Scheme 1995
- .. Workmen's Compensation Act 1923
- .. Maternity Benefit Act 1961
- .. Equal Emolument Act 1976
- .. Payment of Bonus Act 1963: Price shall be quoted by bidders excluding Bonus. Bonus shall be payable as per Payment of Bonous Act 1965, on actual basis for the contract period on submission of proof of payment with the last bill of the contract and shall be restricted to the amount of Rs...../per hr/ per day as applicable. Instant arrangement nowhere intends to affix responsibility of payment of bonus on BHEL.
- .. Inter State Migrant Act.

STATUTORY INSTRUCTIONS TO CONTRACTOR

STATUTORY REGISTRATIONS AND CLEARANCES

Contractor shall commence the work only after obtaining:

1. Labour License (If applicable)
2. Provident fund code no.
3. ESI code no
4. Registration no.
5. Notice of commencement in Form 6-A & Maintain Register of workers Form 13.

CONTRACTOR SHALL ENSURE FOLLOWING WHILE EXECUTING CONTRACT

1. Employment card as per rule no 76 of Contract labour (Regulation & Abolition) MP rules, 1973
2. Appointment letter to his employees.
3. Annual leave with wages including EL, CL, National Holiday & Festival holiday.
4. Leave record register.
5. Shall engage only adult workers who have attained the age of 18.
7. Obtain insurance cover for his employees/ equipment's, tools etc & third party insurance coverage at his own cost.
8. Remit Provident fund contributions in prescribed 3A & 6A forms
9. ESI contributions in Form 6
10. Submit challans of PF & ESI contributions every month.
11. Provide Personal protective equipment's for his employees
12. Distribute wage slip each month to his employees,
13. Ensure payment as per minimum wages act, 1948,.
14. Preferably Uniform to labours different from BHEL employees
15. Submit employee and employer contribution as per Shram Kalyan Nidhi Adhiniyam 1982.

ON COMPLETION OF WORK: Submission of PF & inspection report

CONCILIATION PROCEEDINGS UNDER THE BHEL CONCILIATION SCHEME, 2018

The Parties agree that if at any time (whether before, during or after the arbitral or judicial proceedings), any Disputes (which term shall mean and include any dispute, difference, question or disagreement arising in connection with construction, meaning, operation, effect, interpretation or breach of the agreement, contract or the Memorandum of Understanding (delete whichever is inapplicable), which the Parties are unable to settle mutually), arise inter-se the Parties, the same may, be referred by either party to Conciliation to be conducted through Independent Experts Committee to be appointed by competent authority of BHEL from the BHEL Panel of Conciliators.

Notes:

1. No serving or a retired employee of BHEL/Administrative Ministry of BHEL shall be included in the BHEL Panel of Conciliators.
2. Any other person(s) can be appointed as Conciliator(s) who is/are mutually agreeable to both the parties from outside the BHEL Panel of Conciliators.

The proceedings of Conciliation shall broadly be governed by 7.11 of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in Annexure to this SCC.

(The Conciliation Proceedings hereunder, supersede the relevant terms & conditions given in "Special Terms & Conditions and Statutory Compliances" or any other Tender document, where ever applicable).

CODE FOR SAFETY MANAGEMENT AT SITES

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

It may please be noted that the following practices are to be observed during execution the work:

GUIDELINES FOR SAFE WORK PRACTICES

- Personal Protective Equipment: Provision & use of personal protective equipment conforming to Indian or equivalent standards to all employees of BHEL & its sub-contractors working at sites shall be ensured as specified below:
- Safety Helmets Conforming to IS: 2925 shall be worn by all at sites where there is any possibility of any object falling from overhead.
- Safety Belts (Type 2) Conforming to IS: 3521 shall be used with the life line properly tied, by any person who is required to work at an elevated location from where there is possibility of fall of the person by more than two meters.
- Person who might be exposed to any hazards to his eyes & face during the course of his work shall use 2.1.3 Eye & Face Protection Device Conforming to IS: 8940 or 8520.
- Ear protection Device Conforming to IS: 6229 shall be used by any person exposed to excessive noise in his work.
- Hand & Body Protection Devices IS: 2573 or 6994 or 8519 or 8807 as applicable shall be used by a person who might be exposed to the possibility of Injury to his hand or body while executing a particular task.
- Foot Protection Devices: Safety shoes or good quality covered shoes, depending on the degree of hazard one is likely to be exposed to, shall be worn by persons engaged at servicing sites.

HOUSE KEEPING

- Materials, equipment's etc. shall not be placed or left work area so as to obstruct safe movement of people or cause any other mishap.
- Work places & passageways that are slippery due to oil, water etc. shall be cleaned up or strewn with sand/ similar substance.
- Action shall be taken to discourage the practice of throwing materials/ equipment's for elevated locations to lower levels.

ILLUMINATION

- Adequate & suitable artificial lighting shall be provided at all work places and their approaches.
- Lamps shall be protected by suitable guards where necessary to prevent danger, if the lamp breaks.
- Hand-held lamps shall be powered by either 24V supply or dry cells.
- Emergency lighting provisions for night work shall be made to minimize danger in case of power failure.
- Insertion of electrical wires directly into socket holes without proper plug top for drawing power shall not be allowed.
- Proper earthing & insulation of all temporary electrical lines laid for servicing jobs shall be ensured.

FIRE HAZARDS/ ACCIDENTS AND THEIR CONTROL

- BHEL employees should ensure that first aid fire- fighting equipment, arranged by customer, is available in the vicinity of work place.
- Arrangements shall be made to contain sparks generated during welding, cutting or other operations and sparks shall not be allowed to fall down on combustible materials, if any, kept below.
- Every scaffold shall be of safe design for the purpose for which it is to be used and shall be of safe and sound constructions and maintained in good conditions.
- Switching off of power supply to welding machines etc. shall be ensured during non-working period.
- Rolling & dragging gas cylinder shall be allowed but suitably designed cage system shall be used for lifting of gas cylinders to elevated work locations and also for lowering them.

FIRST AID

- BHEL/ sub-contractor shall be required to maintain a first aid box with essential items. The box shall be available for use at all hours of work.

STATUTORY LIABILITIES OF THE CONTRACTOR**TENDER NOTICE NO. TXX/TN/2023-24/03****DATED: 20/05/2023**

- All statutory requirement under Minimum Wages Act 1948, Payment of Wages Act 1936, Workmen Compensation Act 1923, EPF & MP Act 1952, Payment of Gratuity Act 1972, ESI Act 1948, Contract Labour (R&A) Act 1970, Payment of Bonus Act 1965, Income Tax Act, Service Tax Act and all other applicable Act etc shall be complied by the Contractor
- Contractor shall comply with all statutory requirement, rules, regulations & notification etc in relation to employees issued from time to time by the concerned authorities
- Contractor shall ensure payment of statutory prescribed minimum wages as applicable from time to time in the presence of authorized representative of BHEL and maintain proper records of their timely disbursement. These records need to be preserved for a minimum period of at least 3 years and should be made available even after the contract is over for any verification by statutory / BHEL authority
- Contractor to provide PF Pass Book to his employees ensure payment of PF, EDLI, pension dues under EPF and MP Act 1952 to the RPF
- Contractor shall ensure payment of ESI contributions under ESI Act 1948, and provide ESI membership no. of each employee
- Contractor shall produce proof of deductions as well as remittance of PF, EDLI, Pension, ESI contribution, administrative charges etc where ever applicable and shall maintain proper records
- Contractor shall furnish proper returns to the concerned statutory authorities
- Contractor shall be solely responsible for non-payment, delayed payment of wages, contribution under EPF & MP Act, ESI Act etc.
- In case the Contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities, the security deposit / other dues under the contract can be utilized by BHEL to discharge the liability of the contractor
- Payment of bonus under Bonus Act, payment of gratuity under Gratuity Act and retrenchment compensation under Act will be sole responsibility of the Contractor
- Over & above the daily wage rate, payment shall be made for leave with wages
- Contractor shall observe provisions of the Factories Act in respect of working hours, holidays, rest intervals, leave & overtime to his employees. No work shall be done on second / third shift, overtime, Sundays or on other declared holidays without written permission
- In case a contractor employs women as employee, he will discharge his obligation under law in respect of such women workers such as prohibition of engaging them during night hours, prohibition of employing them for more than 9 hours per day, provision of crèche facility, grant of maternity leave as per rules etc
- Contractor shall be responsible for making payment of wages before expiry of 7 days from the last day of wage period and to ensure disbursement of wages in the presence of the authorized representative of the contract operating division & HR representative who shall record under his signature to the end of entries in the register of wages and give certificate to this effect which shall be enclosed with the bill for claiming payment
- In case the Contractor fails to make payment to his employees within the stipulated date / time, security deposit can be utilized for payment of wages etc. In case of such an eventuality the Contractor shall replenish such an amount immediately
- Contractor shall indemnify BHEL against all claims and losses under various statues or any civil or criminal law in connection with the employees deployed by him
- The contractor shall issue all the necessary Personal Protective Equipment's (PPEs) to all his workmen involved in the job. The liability for any compensation on account of any injury sustained by an employee of the contractor shall be exclusively of the Contractor
- Contractor to obtain insurance cover for his employees / equipment, tools & tackles etc and take third party risk insurance coverage at his own cost. BHEL shall not be responsible for any loss, damage, pilferage of his property under employees
- Contractor should have independent code numbers under EPF & MP Act 1952 and ESI Act 1948 Service Tax and shall cover his employees under the said codes
- Contractor to obtain license under CL(R&A) Act 1970
- Adherence to all local, state and central legislation on safety measures as applicable to the work at site shall be ensured.
- This document may be treated as a part of the NITs and your acceptance of these requirements will be essential for qualifying to work as our sub-contractor.

**FORMAT FOR
"NO DEVIATION CERTIFICATE"**

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

NO DEVIATION CERTIFICATE

This is to certify that our offer is exactly in line with your Tender Enquiry No. _____ . This is to expressly certify that we have read all the clauses of tender and our offer contains **no deviation** either Technical or Commercial in either direct or indirect form.

Signed By :

Name : _____

Designation : _____

Organization : _____

Date & Place : _____

Phone/Fax/Email : _____

Stamp & Seal : _____

(Signature & seal of Bidder)

ORGANIZATIONAL INFORMATION**TENDER NOTICE NO. TXX/TN/2023-24/03****DATED: 20/05/2023**

Sl.	Description	Bidder's Information
1	Bidder's Name, Full Address / Pin Code	
2	Name(s) of Contact Person(s) Mobile No(s). of authorized signatory of bid document	
3	Tel. No. / Fax No./ e-mail	
4	Bid Ref. No. & Date	
5	Type of Company (Limited Company / Private Company / Co-Operative Society / Partnership Firm / Proprietorship)	
6	Year of establishment, Company Registration No. & date	
7	Director / Partner / Owner/ Proprietor Information	
8	Approved as erection Contractor for any other reputed Transformer Manufacturers in ABB / Siemens / Alstom / CGL / BHEL / NTPC / POWERGRID / Central / State Govt. Agency/PSU	
9	Income Tax PAN	
10	GSTIN Tax Registration No.	
11	Service Tax Registration No.	
12	PF Registration No.	
13	Electrical Contractor License No. & Validity	

Attach list the T&Ps and testing instruments owned by the bidder along with copy of PO.

Value addition for services

Sr No	Description	Remark
1	Percentage of Value addition in India.	
2	Place of Value addition in India.	

(Signature & seal of Bidder)

Format for Related party undertaking

TENDER NOTICE NO. TXX/TN/2023-24/03

DATED: 20/05/2023

DECLARATION BY THE CONTRACTOR

I, Sri _____, owner of M/S _____, hereby declare that I do not have any relations, as specified below, in the **TRANSFORMER SERVICES DEPARTMENT (TXX-986)** group, of BHEL, Bhopal.

I hereby authorize BHEL to cancel my tender, if my this statement is found wrong, i.e. if it is found that any of my relatives, as defined below is found to be working in any of the divisions under **TRANSFORMER SERVICES DEPARTMENT (TXX-986)** group:

1. Husband/ Wife
2. Father
3. Mother (including step-mother)
4. Son (including step-son)
5. Son's wife
6. Daughter (including step-daughter)
7. Father's father
8. Father's mother
9. Mother's mother
10. Mother's father
11. Son's Son
12. Son's son's wife
13. Son's daughter
14. Son's daughter's husband
15. Daughter's husband
16. Daughter's son
17. Daughter's son's wife
18. Daughter's daughter
19. Daughter's daughter's husband
20. Brother (including step-brother)
21. Brother's wife
22. Sister (including step-sister)
23. Sister's husband

I also understand that in such case, following action may be taken against my company: -

1. Termination of contract
2. Disqualification/debarring from all future contracts

I also, promise neither try to influence, chase or interfere into the working of BHEL officials nor engage BHEL employee or any other third person for the same. In case such incident does occur, it may lead to my disqualification/debarring from the contract.

(Signature & seal of Bidder)