



SECTION – V

SPECIAL CONDITIONS OF CONTRACT [SCC] & SCOPE OF WORK [SOW]



ब्रह्मपुत्र क्रेकर और पालीमेर लिमिटेड
BRAHMAPUTRA CRACKER AND POLYMER LIMITED
(भारत सरकार का उपक्रम)/ (A Government of India Enterprise)

SPECIAL CONDITIONS OF CONTRACT

1. Name of Job:

Repairing, installation & commissioning of 1 number of 1.6 MVA (TR-31), 6.6kV/ 0.415 V installed at BCPL Lakwa Plant

2. Site Location:

The plant is located at a distance of approximately 35 km from Sivasagar town. The address is:

**Brahmaputra Cracker and Polymer Ltd,
C2+Recovery Unit, Charaideo,
Sivasagar Assam
P.O.: Lakwa, PIN-785688**

The normal working hours at BCPL Lakwa plant is 08:30 hrs to 17:00 hrs with lunch break for half an hour. The service personnel of bidder/vendor shall have to report at site at 08:30hrs the day work starts with prior information to & consent of EIC. It is understood that before quoting the rates, the bidder has visited the work site at his own cost and has acquainted himself fully with the nature and quantum of job to be carried out by him in case of award. The company shall not accept any claim whatsoever arising out of the difficult site/terrain/local conditions etc., The contractor will be responsible to complete the entire job in all respects.

3. Period of Contract:

The service contract shall be valid for a period of six months from the date of issue of LOI/work order.

4. Compliance with Labour & Industrial Laws:

- a) Bidder has to comply with all industrial, labor and other statutory laws for the manpower deployed inside BCPL premises.
- b) Bidder shall indemnify the company against all losses or damages, if any caused to it on account of acts of the personnel deployed by the bidder

5. Safety & Equipments

Contractor shall be liable to perform the work inside BCPL plant premises as per Industrial safety rules. All safety PPE (Personal Protective Equipments) should be provided by Contractor (example: safety gloves, safety shoes, helmets etc.). No technician, helper will be allowed on duty without wearing the uniform and necessary safety wears.

6. Tools & Tackles/Equipments':

- a) The contractor shall keep the equipments in working conditions at site and will ensure that they remain available at site. Calibration certificate of the entire measuring instrument shall be submitted by the contractor along with the instruments. All the measuring instruments should be adequately calibrated with frequency of one year from the date of last test certificate issued.
- b) The entire contractor's materials, tools and tackles should be marked with the name of the contractor. All such materials will be shown at the factory main gate for entry and certified copy of the material taken inside the plant premises will be submitted to the Engineer-in-charge at least within one week's time.



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- c) The measuring instruments, tools & tackles brought inside the plant premises shall be the sole responsibility of the contractor. BCPL shall not be responsible for any loss or damage caused to the measuring instruments, tools & tackles by the contractor for this contract. No claim shall be imposed on BCPL; due the damages/losses

7. Terms of Payment:

- a) Contractor shall submit the final bill after completion of the job in all aspects in triplicate as per schedule of rates and actual measurement in prescribed format with the full details of work for the period of billing to the Engineer-In-Charge for certification along with duly signed relevant documents such as measurement sheets in support of the claims.
- b) The contractor have to carry out operation and maintenance jobs as per BCPL's requirements on all the days including Sundays and gazetted holidays and the contractor has to take this aspect into consideration while quoting his rates. No extra claim/overtime whatsoever will be paid on this account.

8. Bidder's/Vendors' Scope:

- a) The unit rates quoted shall be kept firm and valid during the period of contract and no escalation shall be permitted for any reason whatsoever after the award of contract.
- b) Dismantling, loading/unloading, shifting, ,overhauling, testing, installation & commissioning of transformers as per the scope of work shall be in the vendor's/bidder's scope and bidder shall deploy adequate service personnel having electrical license issued by government/statutory agency for supervision and smooth execution of the aforementioned jobs. The supervisor should at least be an ITI holder in electrical discipline with experience in transformer overhauling, installation and commissioning job. Bidder must submit relevant documents of such supervisor during bid submission
- c) All equipments' required for carrying out the tests as mentioned in the scope of work shall be in bidder's scope. Bidder must have valid test certificates of the equipments' issued by Govt. lab/NABL/ILAC accredited laboratory for these equipments. Bidder must submit the list of such equipments along with their valid calibration certificate during testing job at site.
- d) The test engineer deputed at site must be at least a diploma holder in electrical discipline . The engineer should have prior experience in carrying out the tests mentioned in the SOW. Bidder must submit education and experience certificate of such testing engineer during bid submission.
- e) The Contractor shall not sublet, transfer; assign Work or any part thereof without the written permission of the Company.
- f) BCPL shall not be responsible for any loss or damage caused to the persons deputed by the contractor for this contract. No claim shall be imposed on BCPL; due the damages/losses.



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- g) Contractor shall be responsible for safe custody of any equipment handed over to him. In case of loss/ theft, the purchase cost or market rate of the equipment plus 25% departmental charges shall be recovered from the contractor. BCPL's decision in this regard shall be final, binding and conclusive.
- h) Any person found unsuitable for the job, will have to be replaced immediately by engaging some other suitable person or within a stipulated time period as notified by EIC.
- i) Contractor shall be responsible for all acts of their workers. Any loss or damage caused to BCPL's property or to any third party in any form shall be chargeable to the contractor's account. If any liability is thrust upon BCPL which is attributable to contractor's staff it will be charged to contractor's account or recovered from contractor's bills.
- j) In case of any accident, injuries, death caused to the any employee of contractor while executing the work under the contract inside BCPL premises, the contractor shall solely be responsible to pay the adequate compensation, insurance money etc. to the next kith & kin of injured/deceased contractor labour/ employees. The contractor undertakes and indemnifies BCPL from such liabilities.
- k) The contractor must ensure the discipline of its labour/employees during the contract. Any nuisance of its labours/employees shall not be tolerated and in such circumstances, the consequence of the same shall be at the cost of the contractor.
- l) The contractor shall not engage or deploy any person having a criminal record. If at any stage found such person executing the work, the BCPL will terminate the contract or advice the contractor to change that labour.
- m) The Bidder shall not deploy the manpower below the age of 18 years and above 60 years inside BCPL Plant premises
- n) In case expiry of validity of contract license during the contract, contractor shall submit the proof of application for license renewal to EIC and submit the renewed license within 2 months from the date of expiry.
- o) Fooding, lodging & transportation of the deployed manpower shall be in the scope of the bidder/vendor.

9. BCPL Scope:

- a) Necessary work permits to execute the jobs at site.
- b) Supply of utility power as per job requirement.
- c) Arrangement of empty barrels for oil storage.
- d) Support of unskilled manpower as per job requirement.

10. Engineer –In-Charge:

- a) The Engineer-In-Charge will be authorized to issue guideline to the contractor for the execution of the work wherever such stoppage may be necessary to ensure proper execution of the contract. He shall also have authority to reject all works which do not



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conform to the specification, the Engineer In-Charge reserves the right to suspend the work or part thereof at any time and no claim whatsoever on this account will be entertained. In case of any dispute, the contractor may appeal to the Engineer-In-Charge whose decision shall be final and binding.

- b) The contractual firm shall supervise the work and execution part under his guidance. The contractor shall ensure the proper supervision of work and on his personnel activities within the premises.

11. Utility Supply by BCPL (Power, Water) etc.

- a) Utility supplies such as power, water in plant shall be supplied free of cost as per requirement.
- b) BCPL will provide a dedicated space for keeping tools & spare at site.

12. Defect Liability Period:

The defect liability period for the work will be six months from the date of completion of job. The DLP will be applicable to the work done only.

13. /Warranty:

Bidder shall have to provide a warranty of 24 months against the transformer rectification job from the date of despatch from bidder's/vendor's works.

SCOPE OF WORK

The scope of work defined herein shall cover all but not limited to the following:

- 1. Transportation of damage/faulty transformer to bidder/vendor works/premises & vice-versa.** Lifting and transportation of the transformer from BCPL Lakwa plant to bidder/vendor yard/premises and vice versa shall be in the scope of the contractor. Arrangement of all material handling equipments' and tools such as hydra, chain-pulley blocks etc shall be in the scope of the vendor. Vendor shall arrange for all the documents and licenses required for the safe exit/entry of the equipments' and tools inside the company premises for the dismantling and installation job
- 2. Jobs to be performed at bidders/vendors works/premises**
 - a) Dismantling of transformer top cover, radiator, conservator, explosion vent pipe etc and store properly. They are needed to be refitted with proper sealing afterwards.
 - b) Un-tanking of core winding and dismantling of core-coil assembly. Cleaning of all parts of transformer including core, radiator tube, conservator tank
 - c) All windings shall be manufactured from new copper conductor and new insulating materials. The size & type of new copper conductor should be as per original windings .The dimensions (ID , OD , Height , number of turns etc) of the new copper windings should be as per original windings . A sketch indicating details of outer and inner diameter, size and type of conductor, type of windings, thickness & size of core laminations with limbs and window dimensions shall be made by the Bidder during repairing job. Bidder has to take the photographs of above destroyed scrap windings & should be handed over to the engineer in charge. Removal of old wiring of transformer and making of new HV & LV leg coils with varnishing and insulation of



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all the phases. Documents such as procurement copy of new copper conductor used in transformer wiring and copper purity certificate of the winding used should be available with the bidder/vendor and should be able to produce during job execution. After removal of old transformer winding, measurement of winding /scrap generated should be carried out and kept in a secure place so that the same could be transported back to BCPL Lakwa. BCPL representative shall be available at bidders/vendors premises during the measurement period.

- d) Supply/Filling up of transformer oil as per IS: 335 (latest), Silica gel breather with fresh silica gel, supply of gaskets (Rubberized cork sheet), supply of all nut-bolts, plugs, caps, screws, washer, insulation materials and all such materials which may be required during job execution.
- e) Repairing of minor dents and others issues as observed during job execution.
- f) Painting of all transformer body including conservator, radiator etc.
- g) After completion of all jobs in the transformer, box-up of transformer shall be carried out and requisite tests on the transformer as per IS-1180 (Latest) & IS 2026 (Latest) shall be carried out.
- h) Inspection call to be raised to witness FAT (Factory Acceptance Test) at bidder/vendor works/premises.
- i) After successful completion of FAT & acceptance thereof, transformer shall be transported back to BCPL Lakwa.
- j) Following minimum tests shall be carried out during FAT:
 - 1. Insulation Resistance/Polarization Index Test
 - 2. Winding Resistance Test.
 - 3. Ratio Test
 - 4. Vector Group Test
 - 5. No-Load Magnetising Test
 - 6. Magnetic Balance Test
 - 7. Oil Test (BDV Test & ppm/moisture in oil test).
 - 8. Tan Delta Test.
 - 9. Short Circuit Test
- k) Submission of drawings, test reports, commissioning reports to the EIC after completion of all jobs.

3. Jobs to be performed at BCPL Lakwa by the bidder/vendor

- a) Transportation of the repaired transformer along with the scrap winding removed from transformer.
- b) Installation of the transformer in the existing foundation and making all necessary changes for connecting the transformer to the existing bus-duct system.
- c) Physical inspection and site tests on the transformer.
- d) Making all the necessary arrangement for charging of transformer and handing over the same to BCPL after successful commissioning.