

3253

TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS LIMITED



TECHNICAL CONDITIONS OF CONTRACT (TCC) CONTENTS

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Chapter - I : PROJECT INFORMATION

1.0	Project Information
	<p>1) Purchaser : M/s.NSPCL Bhilai</p> <p>1) Project Title : Capital Overhauling of 14MW Turbine & Generator of PP2 NSPCL Bhilai (One Unit).</p> <p>2) Railway Station : Bhilai/Durg</p> <p>3) Nearest airport : Raipur</p>

The Bidder shall visit site and get acquainted himself with the conditions prevailing at site before submission of the bid. The information given here in under are for general guidance and shall not be contractually binding on BHEL/ Owner. All relevant site data/information as may be necessary shall have to be obtained /collected by the Bidder.

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Chapter – II: SCOPE OF WORK

The work under the scope of these specifications is broadly as follows.

PRE SHUTDOWN WORK

1. Mobilization of site.
2. The Contractor has to make his own arrangement for transportation & accommodation for his workmen, engaged for this job.
3. Arranging Gate pass, insurance & Accommodations to the contract personnel.
4. Shifting of material store and T&Ps.
5. Shifting of special T&Ps to turbine floor.
6. Removal of Enclosures Cover if required and erect back after OH if available.

SCHEDULE– 01: COH OF TURBINE & GEAR BOX 14 MW

01 TURBINE

- a. Remove insulation from Turbine casing and valves. Dispose all removed insulation from Turbine floor and surrounding area to the location as decided by E-i/c.
- b. Remove HP & LP servo motor linkages, oil piping. Remove Turbine both side bearings top covers.
- c. Remove HP & LP control valve assembly.
- d. Decouple turbine and gear box and record the initial alignment reading; remove coupling bolt of low speed coupling and recording of initial alignment reading and other critical readings.
- e. Disconnection & Stripping of Turbine ESV, Control valves chest etc and loosening of turbine parting plane bolts.
- f. Removal of Bearing top covers after recording initial clearances.
- g. Checking seal bore centering reference and related measurements.
- h. Record turbine parting plane gaps before removal of Turbine casing top cover. Remove turbine casing top cover.
- i. Take flow path reading and other critical measurements.
- j. Removal of existing Turbine rotor.
- k. Checking of front, rear intermediate and balance piston labyrinth gland. Replacement if required.
- l. Cleaning of all components by Alumina grit blasting/ mechanical rubbing etc.
- m. Inspection of turbine rotor and blades.
- n. Check blue matching of Turbine casing parting plane and do necessary correction. Check Turbine rotor free run out.
- o. Repair/ replacement of seals according to control dimensions if required. Repair / replacement of Bearings, blue matching as per control dimensions.
- p. Placing Turbine rotor. Checking / recording of clearances, flow path reading, rotor run out, coupling run out etc. In case of generator rotor is replaced with a new one, coupling hub will have to be transferred from old to new generator rotor, prior to checking coupled run out etc
- q. Checking tightness of foundation bolts.
- r. Put turbine top casing in position and do tightening of parting plane bolts as per recommendations. Check centering reading and adjust as per control limit.

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- s. Assembly of Bearings and boxing up of bearing housings. Put pedestal oil guard in position and check the oil guard clearance.
- t. Servicing of Barring Gear system. Replacement of spares/ components if required.
- u. Bump check and Adjustments of axial float.
- v. Replacement of couplings, between TG & gear box.
- w. Alignment of turbine and gear box with generator.

Note: Replacement of any one journal bearing in turbine or gear box is included in the scope of work.

02 GEAR BOX (Turbine to Generator)

- a. Removal of top cover of gear box.
- b. Removal of top half of all the bearing and measurement of clearances.
- c. Removal of both gears from position and physical examination of gear teeth and wear pattern and do DP test of gear teeth. Revisioning of bearings.
- d. Checking various measurements viz. back lash, gear shafts float etc.
- e. Servicing of barring gear
- f. Boxing up of bearing and placement of top cover.

03 FRONT PEDESTAL / GOVERNING SYSTEM

- a) Removal of all linkages of Governing System.
- b) Servicing of Governing System including I/H convertors, replacement of Duplex filter cartridges.
- c) Checking of main oil pump, checking of backlash of gears. Replace / repair worn out components.
- d) Servicing of other components/parts of Governing system including HP and LP servomotors servicing and replacement of spares/components if required.
- e) Checking of healthiness of all bearings of Governing system, Main oil pump. Cleaning and replacement if required.
- f) Cleaning of all linkages. Replacement of bushes / components / spares if required.
- g) Dismantle, clean the over speed trip device. Replace / repair as required.
- h) Assembly of all components / piping / linkages after servicing.
- i) Adjustment/ record of Governing Characteristics as per OEM recommendations.
- j) Servicing of 18 ata NRV hydraulic actuator.

04 ESV AND TURBINE CONTROL VALVES.

- a) Overhauling of steam and oil sides of ESV. Inspection and replacement of worn out components as per requirement.
- b) Servicing of other components / parts of Governing system including HP and LP servomotors servicing and replacement of spares / components if required.
- c) Servicing of trip circuit devices viz. damping device, solenoid trip device, low lube oil trip, 18 & 8 ata high pressure trip etc
- d) Dismantle of all valves. Inspection. DP Test. Repair / Replacement of valve spindles or any related component, valve cones etc. if required.

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Note: - Valve seat repair/ replacement shall be carried out on extra cost & time.

- e) Dismantling of HP, LP control valves and their lapping with blue checking. Removal of damaged studs if any and replacement with new ones. (HP/LP control valves parting plane).
- f) Boxing up of valves and check for smooth functioning.
- g) Leakage checking of control valves.

05. COMMISSIONING OF TG SET

- a. Governing system characteristic checking & setting for HP / LP servomotor for HP/LP CV.
- b. Do oil flushing and attend defects. Clean MOT strainer during oil flushing.
- c. Do painting of gear box, coupling covers, bearing pedestals generator & exciter and associated pipings.
- d. Witness turbine rolling, synchronization, & achieving full load. Attend defects, if any during re-commissioning of turbine.
- e. Rectification of any defects noticed after synchronizing of the machine.

Note: -

- 1. Bidder has to arrange Hydraulic Torque Wrench along with operator for decoupling & coupling of coupling bolts in consultation with BHEL site In-charge.
- 2. Bidder shall arrange skilled and experienced EOT Crane Operators for round the clock working.
- 3. Bidder has to depute Reputed Testing Agency along with Test kit & accessories to carry out DP/UT test in consultation with BHEL Site-In-Charge.

SCHEDULE-02: - ARRANGEMENT OF TG EXPERTS: -

- 1. Two (02) Nos Experts of TG & associated areas are to be deployed by the contractor as per site requirement in consultation with BHEL Site-In-Charge.

SCHEDULE-03: - ARRANGEMENT OF SAFETY ENGINEERS ALONG WITH COMPLIANCE OF ALL HSE REQUIREMENTS: -

- 2. Two (2) Nos Safety Engineers are to be deployed by the contractor for complete duration of Overhaul in consultation with BHEL Site-In-Charge. Safety Engineer should be qualified from approved institute.
- 3. Bidder has to fulfil all HSE related requirement at site.

SCHEDULE- 04: REPLACEMENT OF OLD TURBINE ROTOR WITH NEW/REFURBISHED ONE & ITS COMMISSIONING (OPTIONAL):

- a) Placing of new 14 MW refurbished Turbine rotor
- b) Matching of coupling with Gear-box and reaming, honing if required.
- c) Measurement of TOC/SOC of front and rear bearing w.r.t. new turbine rotor and do correction if required.
- d) Checking / recording of clearances, flow path reading, rotor run out, coupling run out etc.
- e) Attend defect or abnormality after synchronizing of the machine with new turbine rotor and achieve full load.

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SCHEDULE – 05: REPLACEMENT OF JOURNAL BEARING OF TURBINE GENERATOR OR GEAR BOX (OPTIONAL):

- a) Check bearing interference, TOC, SOC etc. Damaged bearings if any are to be replaced. For fitting of new bearings, all jobs are to be done.
- b) Remove old bearing from position.
- c) Do the DP test and UT of TG Journal Bearings, Thrust pads, etc. and replace them as per requirement.
- d) Replacement of additional journal bearing other than one.
- e) Unpack & clean, housing internals, new bearing & check all dimensions viz. SOC, TOC etc.
- f) Place in position & check blue contact with housing & improve it if required.
- g) Now check clearances with journal (turbine rotor or GB gear/pinion journal).
- h) Check interference with bracket/housing top cover.
- i) Final Box up.

Note: One number bearing replacement is to be done free of cost upon observation of any deviation beyond permissible limit in the bearing clearances/defect observed during visual inspection/DP/UT. This schedule-6 will be executed only if more than one number bearing needs replacement. Quantity variation is -100 to +100 %.

SCHEDULE – 06: REMOVAL OF OLD DEFUNCT ASKANIYA GOVERNING SYSTEM:

- a) Removal of old defunct Askaniya Governing System & Putting the existing system to its normal working condition.
- b) Bidder shall provide necessary manpower assistance to BHEL experts/team during execution of the job.

SCHEDULE: - 07: - CAPITAL OH OF THE GENERATOR, REPLACEMENT OF EXISTING ROTOR WITH NEW SPARE ROTOR, REPLACEMENT OF GENERATOR BEARINGS IF REQUIRED, ELECTRICAL TESTING: -

1. Dismantling connection of cables at brush gear.
2. Dismantling of brush gear, shaft earthing brush.
3. Dismantling of Generator end cover & taking reading/measurement of all clearances air gap, rotor axial position etc. before removal of bearings.
4. Measurement of bearing clearances and dismantling of Generator bearings.
5. Removal of coupling Bolts between Turbine & Generator rotor
6. Threading out of rotor with the help of Hanger, Sliding Plate, Bush etc. & placing on stand.
7. Dismantling stator winding connections at the bottom of the stator.
8. IR & PI measurement of generator stator with 2.5 KV meggar.
9. Cleaning of stator.
10. Cleaning of space below stator frame.

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11. Measuring IR valve of rotor before cleaning.
12. Visual inspection of Stator core & winding portion
13. Cleaning of rotor by air with periodic heating of the same by suitable high wattage lamp for dislodging of dust particles & repeated air blowing through ventilation ducts.
14. Replacement of generator rotor with new spare rotor (shorter length). Arrangement for removal & fixing of couplings for new spare rotor to make the new rotor (shorter length) suitable for use with existing generator. Any modification work/arrangement related for proper usage of rotor shall be in the scope of bidder.
15. Preparation for insertion of generator rotor.
16. NDT on Generator Rotor and Bearings 3&4.
 - i. Dye Penetration Test on Journal Bearings 3&4.
 - ii. Ultrasonic Test on Journal Bearings 3&4.
 - iii. Dye Penetration Test on front and rear fan Blades.
 - iv. Dye Penetration Test on front and rear Retaining Rings.
 - v. Ultrasonic Test on Retaining Rings.
 - vi. Dye Penetration & Ultrasonic Test on Rotor Shaft Journals as per requirement.
17. Replacement of Generator Bearings, if required with all associated jobs for replacement.
18. Supply & Varnishing of stator Core & rotor.
19. Insertion of rotor after proper cleaning, drying & testing. Checking of magnetic center and air gap of rotor & adjustment as per norms.
20. Checking of all the required clearances of rotor parts with stationary parts and adjustment as required. Replacement of shaft oil seals and other worn out parts if required.
21. Meggering of Generator outboard bearing pedestal with rotor lifted from bearing and replacing insulation if required.
22. Coupling & alignment of rotor with turbine. Rimming & Honing of coupling to be done if needed. Necessary correction, if required, for Matching/Alignment of rotor with turbine.
23. Box up of all bearings top covers after clearance of EIC. Flushing of oil line till desired level of oil cleanliness achieved. During flushing oil basket strainers has to be cleaned as per requirement.
24. Assembly of slip ring connection.
25. Assembly of brush gear and cable connections.
26. Supply & Painting of stator frame & bearing pedestals.

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27. Put the machine on barring gear. Further rectification of defects (if any) while rolling of turbine, and synchronizing.
28. Rectification of any defects noticed after synchronizing of the machine.

SCHEDULE: -9: ELECTRICAL TESTING ON ROTOR & STATOR:

1. C & Tan delta of stator.
2. Partial Discharge measurement of stator winding.
3. IR & PI measurement of generator stator with 2.5 KV meggar.
4. Measurement of winding resistance, inductance, IR value of stator & rotor (old rotor & new rotor).
5. RSO of Rotor (new & old rotor)

Note: - Bidder has to depute Reputed Testing Agency along with Test kit & accessories to carry out DP/UT test and electrical test in consultation with BHEL Site-In-Charge.

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Chapter –III: SPECIAL TERMS AND CONDITIONS

3.1 **SPECIAL TERMS AND CONDITIONS:**

1. **Bidder to strictly follow all the necessary guidelines issued by Customer, District Magistrate, State Government and Central government to control Covid-19 outbreak.**
2. The bidder shall submit following documents to the BHEL Engineer in charge before starting of the work at site: -
 - a) Valid labour license of total Nos. of labours.
 - b) Valid labour Insurance policy to cover all the workers.
 - The Contractor shall necessarily take Workmen Compensation Policy and if required Third Party Liability Policy shall be taken by bidder.
 - c) **Medical Fitness Certificate of each worker issued by registered medical practitioner**
 - d) A photocopy of employment card issued to each worker as per format prescribed in factory rules.
 - e) List of safety appliance provided by the contractor to their workers with receipt.
 - f) Valid test certificate issued by competent authority as per factory rules for the T&P (like pulling / lifting devices, slings, machines etc.) to be utilized at site.
 - g) List of personnel's and workers deputed / deployed along with their full address proof, Police verification etc., shall be get done of his workers by the contractor.
 - h) Submission of Indemnity Bond.

Subcontractor should assure that the repair of the equipment covered in the scope of this offer will be conducted with the best of skills and know how available with Subcontractor and in conformance with the clearances and adjustments set forth in manufacture's drawing instruments and other information's furnished to Subcontractor.
3. Bidder shall visit site well in advance for identification & to ensure availability of required special T&P as well as other infrastructure required.
4. During execution of site it may be required to close the site temporarily, In this case De-Mobilization & Re mobilization charges shall not be payable.
5. All consumables required for the overhauling will be bidder's scope.
6. The various setting, clearances, adjustments and benchmarks will be restored to the extent possible during rectification to the condition as per the erection and commissioning log sheets available with customer. If however we are not able to produce erection / commissioning log sheets, efforts will be made to attend the best possible parameter or the conditions as observed at the time of dismantling of the equipment in consultation with us.
7. Subcontractor must prepare PERT CHART/BAR CHART. Daily monitoring will be done jointly and log sheets of important activities should be noted down and signed jointly.
8. Daily work planning, scheduling & reviewing of work will be done by the party every morning & evening and programme must be submitted on daily basis to EIC. Party also to submit the progress exception report.
9. All the works shall be carried out as per the instructions and to the satisfaction of the Engineer In-charge.
10. The contractor will attend contributory to faulty and poor workmanship during commissioning and trial run of the equipment.

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11. Round the clock working under expert supervision shall be ensured by the contractor deploying two equal parallel strength of groups in 12 hrs. Shift with equal T&P for all the jobs so as to complete the work in stipulated period or earlier.
12. It is the responsibility of contractor to keep the plant, equipment, machinery and surrounding area clean.
13. Removal of insulation from turbine, stop and control valve, associated pipe lines and through cleaning of subjected area is in the scope of bidder.
14. The names of working persons like Site in-charge, supervisors, foreman, main fitters to be deployed during the job with full details has to be submitted stating their area of work and experience and specialization of the work to site in-charge before the start of work. BHEL may ask to change/delete the person not found suitable for the work at any point of time during execution of job. For any addition and deletion of the working person prior permission from BHEL shall be taken.
15. Subcontractor has to ensure that all the key persons must continue till completion of job i.e. machine comes on load. Subcontractor manpower (adequate) should remain at site for a period of **03 days after machine comes on full load.**
16. **Mobilization of full strength manpower and T&P shall be done within 03 days after receipt of LOI or as per Intimation from BHEL.**
17. Work distribution sheet for all the workers/supervisors deployed shall be submitted to BHEL one day in advance on daily basis.
18. Subcontractor should mobilize additional resources such as plant, equipment's, material as may be required by site in-charge to improve the progress of the work if the progress of the work is not satisfactory.
19. Subcontractor should get registered under relevant sales tax and or work contract Act (VAT) where the jobs are executed.
20. Party has to quote lump sum rate for all activities mentioned in the price bid as the actual quantities may vary during overhauling of the unit for which the contractor is not permitted to raise any dispute or claims. Items mentioned as optional will be taken up depending on condition, availability of spares and requirement.
21. Radiography and stress relieving of the joints are in the scope of the contractor.
22. Removals of insulation are in the scope of the contractor.
23. Scrap & insulation etc. is to be shifted to scrap disposal area as indicated by the Site-in-charge.
24. One administrative personnel to control the resources and attendance of the workers to be ensured.
25. Contractor shall arrange certified HP welder for welding job as required whose welding test will be conducted.
26. Free electricity shall be provided by customer but duties if any as applicable shall be paid by contractor.
27. Argon, Oxy- Acetylene gas shall be arranged by the contractor with cutting/welding set / argon welding set and other welding appliances.
28. Enerpack make close height Hydraulic jacks of 50T and 100T capacity - 4 nos. each shall be arranged by the contractor in 100 % working conditions.
29. If the duration of work continues beyond stipulated period due to any reason, no claim for compensation will be entertained.

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30. The work details are brief & for Subcontractor knowledge only. Subcontractor will have to do all the related works as per requirement.
31. The contractor will be responsible to pay the damages to the property of Board or individual caused by his worker during the course of contract. If the contractor fails to pay the same it will be recovered from his bill.
32. No compensation claimed for idle labor for any reason will be entertained by BHEL.
33. All general tools and plants for execution of the work will have to be arranged/ maintained by the contractor at his own cost & risk.
34. In normal course, the interpretation of the under signed on any matter or decision given by him on any disputable points will be final and binding on the contractor.
35. Successful bidder is to obtain labor license before the start of the work.
36. Successful bidder is to obtain necessary "No Dues" certificate before de-mobilization from site.
37. Successful bidder has to arrange Site mobile recharge till the site closing.
38. LAP-TOP with latest configuration, DVD/CD writer/pen drive, its peripherals including printer-scanner and one USB Modem for Internet connectivity to be provided for BHEL site office.
39. Barring Gear is the essence of the contract.
40. Sufficiently adequate man power T&P and other resources should be mobilized by the contractor to operate round the clock work progress with standby technicians to be deployed immediately if need arises. Offer should be submitted considering these requirements.
41. Accommodation for the sub-contractor's manpower will be provided if made available by the customer as per the applicable charges.
42. Contractor shall arrange vehicle for his manpower transportation.
43. Magnetic base drilling machine along with drill/reamer is required (Wherever Applicable) for dowelling of cylindrical support of bearing in case of their replacement.
44. Taper reamer along with drill is to be arranged for dowelling of MOP (Wherever Applicable).
45. **Scaffolding pipes, clamp, Jallies &, 40 mm thick wooden planks are to be arranged by Sub-contractor for various platforms as required for the and Safety will be taken on priority basis.**
46. Contractor reconciles the material and submits along with the bill. To credit the balance spares worn out articles/spares and scrap in the main store.
47. Contractor shall clean the surrounding working area within three days immediately after completion of work/ Machine taken onto barring.
48. Give proper assistance to maintain the readings at site for the protocol.
49. Adequate numbers of tarpaulin are to be arranged by the sub-contractor for covering of various equipment during insulation removal / application.
50. Ultrasound test kit, MPI, DP Test kit of standard makes like ITW SIGNODE / CHECK MATE / ORION 400 ml Aerosol cans and suitable colour paint to repaint the weld joint after DP test along with required accessories and consumables
51. Transportation of material and special T&P required during overhauling from central work shop/Store to site is in the scope of bidder.
52. Collection of material from central store, workshop etc. shall be done by the contractor on his own cost.
53. **EOT Crane facility, compressed air, potable drinking water, electrical supply at select locations, hydra (12T capacity) will be made available on free of cost by NSPCL.**

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54. **Hand lamps of 24/230 Volts with Cables, for proper illumination of work area. 4 MM (2, 3,4 Core) Flexible electric cable for portable hand lamps of 24/230 Volt, electrical extension boards etc.**
55. **Any special fixture, if required, shall have to be fabricated at site itself, at no extra cost. However, the required material for the same shall be provided by NSPCL.**
56. **It will be the responsibility of the contractor to handover the fabricated special fixtures etc. to Engr. I/C NSPCL without fail.**
57. The agency/sub agency shall have to take utmost care of spares parts/materials during dismantling, assembly, storage and handling of equipment's etc as applicable.
58. Preheating/post heating, stress relieving and RT will be arranged by agency.
59. Agency has to give necessary assistance for drawn of spares from stores & returning the damaged spares to store.
60. Any fixture required for the above job shall be fabricated by the agency.
61. IBR qualified welder for use in welding of high-pressure pipes etc.,as applicable.
62. Machines, T&PŞ required for reaming & honing of coupling holes, if required.
63. To & fro transportation of their entire team on their own from place of stay to airport/station, from place of stay to site and to meet other essential requirements.
64. All testing equipment required as per above scope of work shall be in the scope of agency.
65. **All Casing and Valves fasteners should be loosened / tightened by Induction Heating Method. Induction Heating Machine shall be in the scope of bidder. (If required).**
66. **Hydraulic torque wrench with operator shall be arranged by bidder for decoupling & coupling if required at site.**
67. **Sealing compound like, Birkosit, magnesite compound, silastic, anti-rust spray etc. as per recommendation of OEM.**
68. **Blast cleaning shed erection and dismantling and cleaning of scrap alumina and alumina dust around the blast shed.**
69. **Alumina blasting of Turbine casing, rotor & Valves and other associated item including arrangement of alumina.**
70. **Removal & Application of thermal insulation wherever required for working.**
71. **Reaming & honing of coupling holes shall be in scope of bidder.**
72. **Sufficient Halogen Lamps shall be in the scope of bidder.**
73. **Skilled EOT Crane operators, for round the clock working for two cranes are in bidder's scope.**
74. **Bidder has to fulfil all HSE related requirement at site.**

NOTE:

1. The specific (minor) work which is not mentioned in the scope of work but required to be carried out for completion of subject work is in the bidder's scope.
2. Decision of BHEL site in charge regarding interpretation of the scope of work shall be final.

3.2. LIAISON WITH ALL STATUTORY AUTHORITIES:

- a) Compliance of statutory provisions, whether mentioned in this contract or not shall be binding on the contractor.
- b) If there is any change in labour laws after the contract has been awarded, then the new law shall automatically be binding on the contractor.

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- c) No additional financial compensation shall be paid by BHEL to the contractor on account of increased expenditure caused by a) and b) above.
- d) Liaisoning with local commercial tax dept. to obtain Coml. Tax exemption certificate.

3.3 **PAYMENT TO WORKERS:**

- a) Payment to workers shall be done in the presence of BHEL representative or through bank account only.
- b) The contractor shall intimate the day of payment at least three days in advance in writing along with copy of the pay sheet and attendance cards.
- c) All workmen shall be covered by PF Rules irrespective of their period of employment.
- d) Payment shall be made inside the plant premises and during office hours.

3.4 **SUBMISSION OF DOCUMENTS:**

The contractor shall submit following documents at appropriate time either before or during the execution of the work and as directed by Site in-Charge.

1. Test certificates of Pulling and Lifting machines and appliances.
2. Details of workers to be deployed with name, address, category.
3. Details of supervisory staff to be deployed.
4. Authorization for receipt of materials and for signing of Measurement Books etc,
5. Labour license specific to the contract.
6. List of T&P brought into plant premises along with their serial numbers and dates/years of purchase.
7. All the Staff/Workers deputed for the Job should have Insurance Cover and document in this regard should be submitted along with 1st RA Bill.
8. List of consumables brought into plant premises along with their serial numbers and dates/years of purchase, along with test certificates wherever applicable.
9. **WC Insurance policy for the workers to be deployed in this contract.**
10. **Third Party Insurance in the joint name of NPCIL & valid up to defect liability period.**
11. **All workers should be covered under EPF.**
12. Safety undertaking.
13. Copy of ESI certificate to be furnished.
14. Proof of Payment of GST.

(Sl.No.11 to 12 are required before final bill is processed).

The contractor shall submit following documents in report form within 15 days from commissioning of unit after the overhaul/shut down work is completed:

- Details of work executed.
- Measurements against different schedules in compiled form.
- Material issue details.
- Material consumption details.
- Material returns details.
- Details of retrenchment benefits given to workmen.
- Details of issue of PF slip to workmen.

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- Details of settlement of accident benefits if any to workmen
- Copies of pay sheets to workmen.
- Details and proof of remittance of PF to workmen (before final bill).
- No dues clearance from different stores of customer
- Valid labour license

3.5 Statutory Inspection

Please refer General and Special Conditions of Contract. In addition to it the scope includes getting the approvals from the statutory authorities (like IBR, smoke nuisance inspector, anti-pollution authorities, labour officials). This includes arranging for inspection visits of such authorities periodically as per requirement, submitting documents etc. and payment of fees connected with it.

3.6 Safety:

Contractor should engage at least One Qualified Engineer in each shift during the contract period. Strict Safety measures have to be followed at Site. Contractor shall also adhere to all the safety provisions of our customer. In case violation of any provision at site fine of Rs.500/- to Rs.2000/- at the discretion of our site in-charge shall be imposed for each of such occasion and shall be recoverable from the contractor's bill.

1. The contractor should ensure the use of 24 volt hand lamps and 24 volt transformer by his workers. The all electrical gadgets shall have plug top & proper earthing.
2. All T&P like pulling and lifting machine, chain pulley blocks, slings, D-shackles should be maintained in proper working condition. Necessary test certificate has to be submitted by contractor for lifting tools & tackles.
3. The contractor shall be fully responsible for the safety of his workers.
4. The Use of ISI mark safety helmet, ISI mark safety shoes, Goggles, hand gloves, ear plugs and nose mask is a must. In addition to this, a full body (safety) harness, face shield must be provided to workers carrying out work at height & cutting/ welding/ grinding respectively. Gas cutting set with flash back arrester etc. should be provided by the contractor and should ensure the use of these safety equipment's, all PPE by his worker while working.
5. Scaffolding should be erected properly and strong enough with hand rails and it should not be used before getting it checked by Engineer-in-charge.
7. The contractor shall be solely responsible for the safety of his workers & employees. The contractor must ensure that the persons working in specialised nature jobs/ skilled jobs/ working with the welding machines, grinders, cutting set & other special T&P shall be having experience & expertise to perform that job. Contractor should engage physically and mentally fit manpower. The electrical connection / repair jobs shall be done only by the electricians.
8. The contractor shall ensure that prior to start of work all his workers shall get the safety training.
9. The contractor shall also take care for the safety of the equipments & persons working in the vicinity.
10. Customer at its own discretion may decide to recheck / retest some or all of the T&P / machines of the contractor inside the plant premises.
11. The helmets, safety shoes and safety belts issued by the contractor shall be conforming to relevant IS standards.
12. The contractor shall maintain the first aid box at site.

13. PROVISION OF PPEs

- Personnel Protective Equipment (PPEs), in adequate numbers, will be made available at site & their regular use by all concerned will be ensured
- The following matrix recommends usage of minimum PPEs against the respective job.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter –III: SPECIAL TERMS AND CONDITIONS

Sl.NO	Type of Work	PPEs
1	Concrete and asphalt mixing	Nose mask ,hand glove ,apron and gum boot
2	Welders/Grinders/Gas cutters	Welding/face screen, apron, hand gloves, nose mask and ear muffs if noise level exceeds 90dB. Helmet fitted with welding shield is preferred for welders
3	Stone /concrete breakers	Ear muffs, safety goggles, hand gloves
4	Electrical Work	Rubber hand glove, Electrical Resistance shoes
5	Insulation Work	Respiratory mask, Hand glove, safety goggles
6	Work at height	Double lanyard full body harness, fall arrestor (specific cases)
7	Grit/Sand blasting	Blast suit, blast helmet, respirator, leather gloves
8	Painting	Plastic glove, Respirators (particularly for spray painting)
9	Radiography	As per BARC guidelines

- The PPEs shall conform to the relevant standards as below and bear ISI mark.

Relevant is-codes for personal protection

IS:2925-1984	Industrial safety Helmets
IS:4770-1968	Rubber gloves for electrical purpose.
IS:6994-1973(Part-I)	Industrial safety Gloves(Leather & Cotton Gloves)
IS:1989-1986	Leather Safety boots and shoes.
IS:5557-1969	Industrial and safety rubber knee boots.
IS:6519-1971	Code of practice for selections care and repair of Safety foot wear.
IS:11226-1985	Leather Safety footwear having direct molding sole.
IS:5983-1978	Eye protectors.
IS:9167-1979	Eye protectors.
IS:1179-1967	Eye & face protection during welding
IS:3521-1983	Industrial Safety Belt and Harness
IS:8519-1977	Guide for selection of industrial Safety equipment for body protection
IS:9473-2002,14166-1994, 14746-1999	Respiratory Protective Devices

The list is not exhaustive. The safety officer may demand additional PPEs based on specific requirement.

NOTE: All employee of vendor should wear company uniform along with company logo at work place.

3.8 Important Safety Conditions:-Agency has to ensure utmost safety at all associated workplace/s. Penalty for non-compliance of safety rules each time.

- i. Non using safety shoes per person per occasion - Rs.1000
- ii. Non using safety helmet per person per occasion - Rs.1000
- iii. Non using safety belt per person per occasion - Rs.1000.

3.9 OTHER TERMS AND CONDITIONS

- 1.0 Successful bidder has to extend manpower assistance for minor cleaning/scraping, etc.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter –III: SPECIAL TERMS AND CONDITIONS

- 2.0 ~~A copy of tender document with each page duly signed and stamped shall be submitted along with your offer as a token of your unconditional acceptance to this tender condition.~~ Also any deviation to the tender conditions shall be submitted in a separate paper duly signed by the bidder, any overwriting / correction by the bidder on the tender will not be recognized and the offer may be rejected on this ground.
- 3.0 General and special conditions of contract' enclosed herewith will be fully applicable, except otherwise stated in this enquiry. In case of any conflict, the conditions specified in this enquiry letter will prevail over that of the 'General and special conditions of contract'.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – IV: T&Ps and MMEs to be deployed by Contractor

4.0 LIST OF MANPOWER REQUIRED

Sl.No	Manpower	Category	No. of Persons
1.	Site-in charge	Highly Skilled	1
2.	Foreman	Highly Skilled	3
3.	Supervisor	Skilled	4
4.	Store Keeper	Skilled	2
5.	HP Welder	Highly Skilled	As per Requirement
6.	Welder (Non IBR)	Skilled	2
7.	Gas cutter	Skilled	1
8.	Millwright Fitter	Highly Skilled	4
9.	EOT Crane Operator	Highly Skilled	3
10.	Sarang	Skilled	3
11.	Fitter	Skilled	8
12.	Electrician	Semi-Skilled	2
13.	Jr.Filter	Semi-Skilled	10
14.	Insns.Lagger / Carpenter	Semi-Skilled	1
15.	Grinder Man	Skilled	2
16.	Rigger	Semi-Skilled	4
17.	Helper	Un-Skilled	12
18.	Office Boy	Semi-Skilled	2
19.	Safety Engr	Safety officer	2
20.	Expert Manpower	TG & Associated Experts	2

This is an indicative list; the sub-contractor shall deploy adequate manpower to carry out the work round the clock and as per requirement of the site during execution of the Job.

Note: Site in-charge should be qualified Engineer, B.E. (Mechanical) and all the supervisors should have diploma in engineering.

Successful bidder has to arrange suitable mobile communication facility for BHEL site-in charge

4.1 Man power & T&P:

1. Adequate manpower along with T&P should be deployed at site. All the T&P required for the work shall be arranged by the contractor and all T&P should reach the site immediately as machine is under shutdown. All the measuring instruments shall be duly tested / calibrated and valid certificate to that effect should be submitted to our Site In-charge before start of the work.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – IV: T&Ps and MMEs to be deployed by Contractor

2. A deployment plan along with experience and name of the Site In-charge, Engineers, Supervisors, Foreman and main technicians to be submitted on per shift basis.
3. LAP-TOP with latest configuration, DVD/CD writer, its peripherals including printer-scanner and one USB Modem for Internet connectivity to be provided for BHEL site office.
4. One office boy in each shift is to be provided for BHEL site office.
5. Well experienced experts shall be arranged by bidders.

4.2 LIST OF TOOLS AND PLANTS TO BE ARRANGED BY CONTRACTOR

01. Taper gauge, slip gauge set, depth gauge and depth micrometer.
02. Feeler gauge sets, feeler strips of 0.03 to 0.10 mm size.
03. One set of 2 meter long feeler gauge strips (0.05 to 1.0 mm).
04. Dial indicators with magnetic bases (at least 2 dials of diameter 40 mm travel – 5 mm).
05. Micrometers (inside and outside up to 300 mm, 450mm, 600mm & 1000mm).
06. Telescopic gauge (2 sets). Bevel protractor and combination sets.
07. Try square.
08. Set of parallel blocks/ V blocks.
09. Vernier calipers, (150 and 300 mm), measuring steel tapes and 5 meters steel rulers.
10. Precision spirit level (with micro head).
11. 2 sets of D.E. and Ring spanners (6-36mm).
12. 2 sets of ox spanners (6 to 20mm and 22-50mm).
13. Allen keys of various sizes (from 2mm. onwards).
14. D.P. Test Kit (with consumables).
15. Crowbars tin cutters, pliers (cutting plier, nose plier grip plier circlip-outside and inside).
16. Screw drivers and sledge hammers – 10 lbs – 1 lbs.
17. Adjustable wrenches, pipe wrenches and heck saws.
18. Single ended spanners (36 Mm and above).
19. Flat, half round, triangular bearing scrappers-8", to 12".
20. Files flat round, half round and square, rough and smooth (sizes 6", 9" and 12").
21. Bench Grinders, straight grinders GQ4 and GQ6, Angle grinders.
22. Reamers upto 30 mm. Taper reamers.
23. Drilling machine with magnetic stand upto –30 mm with drill bits.
24. Flexible grinders with grinding stones and cutters of different Shapes and sizes, Angles Grinders and Sander machine.
25. Number punch, letter punch, centre punch and hole punches etc.....
26. Steel wire brushes, wire brush wheels, nylon wire brushes and Painting bushes.
27. Reamers and honing tools with proper jigs and fixtures for carrying out coupling hole Reaming /honing.
28. Lifting devices eye bolts, D-shackles, slings of various sizes Guide rods etc.....

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – IV: T&Ps and MMEs to be deployed by Contractor

29. Chain pulley blocks upto 5 tons, 2 tons pull/lift.
30. Copper/Brass rods dia. ½” to 1 ½”X450 mm.
31. Tap and die sets 6 to 36 mm.
32. Surface plate 450 X 450 mm.
33. Torch light/hand lamps with cables, 230/24 V transformer.
34. Torque wrench and torque multiplier.
35. Wooden mallet, Nylon Mallet.
36. Hand glover-asbestos, Manila rope, asbestos cloth leather and Rubber gloves.
37. Set of needle files.
38. Air blower – electric.
39. Electric drills – ¼”, ½”, and 5/8”.
40. Ball pen hammer of various sizes.
41. Gas cutting and heating set with torches regulators, hoses and cylinder minimum two sets).
42. Arc welding generator/rectifiers with regulator, cables, Electrode holders and shields, TIG welding holders.
43. Pneumatic – grinders.
44. Hose pipes for compressed air.
45. Bench vices.
46. Hydraulic jacks 5, 10, 25, 50 & 150 tons capacity and screw jacks- 5 to 10 tons.
47. Hydraulic pump for testing coolers and 500 V megger.
48. Electric switchboards and flood light arrangements with fuse boxes and isolating switches, Plugs and sockets.
49. In addition to above T and P contractor will be required to fabricate fixtures such as pullers etc. for removal of any other equipments related to the scope of work.
50. Pedestal fans/air coolers.
51. Wooden sleepers.
52. Wooden Planks.
53. Magnifying glass.
54. Plastic helmets, Fiber helmet.
55. Gas cutting/welding goggles, grinding goggles.
56. Bearing pullers.
57. Tarpaulin.
58. Insulation testers and Meggers 500 V and 1000 V at least 1 No. each.
59. Any other T and P as per requirement and as per our General and special conditions of Contracts.
60. Digital Multimeter
61. Analogue multimeter of Motwane make
62. Scaffolding materials
63. heating torch-4 nos, depth micrometre, trampoline for shot blasting chamber, Pneumatic / motorised seem cutter.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – IV: T&Ps and MMEs to be deployed by Contractor

NOTE:

1. The above list is only indicative for work in one unit; and not exhaustive. Arrangement for any other T and P required for completion of the job shall be the responsibility of the contractor and shall be arranged by him.
2. All the tools and tackles/measuring instruments shall be duly tested/calibrated and valid certificate to that effect should be submitted to our site in-charge before the start of work.

4.3 CONSUMABLES TO BE ARRANGED BY CONTRACTOR

(The list is indicative only and not exhaustive)

01. Kerosene oil.
02. Rustolene.
03. Petrol/white Petrol/Benzene/CRC/CTC.
04. Grease/Graphite Grease.
05. Hacksaw Blades.
06. Waste cloth/Cotton.
07. Marking/lint free cloth/Muslin.
08. Asbestos cloth/Asbestos cord.
09. Prussian blue.
10. Graphite (flaked) powder/Molykote/Mosil.
11. Cardiom compound.
12. Holdtite/shellac/Gasket sealing compound.
13. Lead wire 1.0 m/1.5 mm/0.5 mm.
14. Liquid soap.
15. Carborandum grinding paste coarse/fine/Diamond lapping paste.
16. Emery papers/Rolls.
17. Cutoff wheels.
18. Grinding wheels.
19. Oil stones, Mounted wheels, rotary cutters.
20. D. P. test chemicals.
21. Gas Cylinders for cutting/welding.
22. Chalk pieces, marking pens, thermo chalks upto 400c
23. Insulation tape, Johnson Tapes.
24. Sander discs and wheels.
25. Polyethylene sheets.
26. Araldite, M. Seal, Instabond, Dendrite.
27. CRC 2-26, white spirit.
28. Electric fuse wire, cables for the connections
29. 2.5 mm² Cu cable (flexible) of 200 mtr. length.
30. Ortho phosphoric acid
31. CRC Lectra-clean.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – IV: T&Ps and MMEs to be deployed by Contractor

32. plastic sheet general purpose electrodes for welding purpose, industrial oxygen, acetylene, Nitrogen gas cylinder, epoxy gel red (make Dr. beck), Dilutenet, thinner, Hardener, EH 411/Metallon, E-2082, Bectol Red, Araldite, glass tape.

NOTE:

1. The above list is only indicative for work in one unit & not exhaustive. Arrangement for any other consumables required for completion of the job shall be the responsibility of the contractor & shall be arranged by him.
2. Special Consumables like Molykote, Hylomar and steam seal jointing paste, gaskets of all kinds, paint etc. will be issued by NSPCL free of cost.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – V: Quality Requirements

QUALITY REQUIREMENT

- 1.0 Various inspection/ quality control / quality assurance procedure/ methods at various stages will be as per BHEL/ customer quality control procedure/ codes/ IBR and other statutory provisions and as per BHEL Engineer's instructions.
- 2.0 Preparation of quality assurance log sheets and protocols with customer's engineers, welding logs, other quality control and quality assurance documentation as per BHEL Engineer's instructions, is within the scope of work/ specification.
- 3.0 A daily log book should be maintained by Area In-charge of contractor on the job incorporating erection / alignment / welding clearance /radiography / progress of work etc. and the same shall be submitted to BHEL. Also, daily reports shall be submitted to BHEL.
- 4.0 All the important measurements like pre-assembly checking of alignment leveling/ centering work etc. shall be recorded in the daily log book with sketches based on BHEL drawings indicating readings/ measurements actually taken and signed by BHEL/ Customer/ Contractor representatives.
- 5.0 The inspection/measuring and testing equipments should be of brand, quality and accuracy, as specified by BHEL engineer and should have valid calibration certificates traceable to national/international standards.
- 6.0 Total quality is the watchword of the work and contractor shall strive to achieve the quality standards, procedures laid down by BHEL. He will follow the instructions as per BHEL drawings and quality standards.
- 7.0 The welder's performance will be reviewed from time to time as per the BHEL/ IBR standards and any welder not performing to the standards set by BHEL/ IBR standards will be removed from working, Contractor shall arrange for the alternate welders immediately.
- 8.0 **STAGE INSPECTION BY BHEL / CUSTOMERS ENGINEERS**

Apart from day-to-day inspection/ stage inspection of equipments by BHEL engineers, the equipments may be checked at various stages by customer's engineers and quality assurance teams. Contractor shall arrange all labour, tools/tackles etc. for such inspections free of cost.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VI: Time Schedule

6.1 TIME SCHEDULE & MOBILIZATION

6.1.1 INITIAL MOBILIZATION:

After receipt of fax LOI, Contractor shall discuss with Project Manager / Construction Manager/BHEL Site In charge regarding mobilization. A Full-fledged team with T&P shall be mobilized **within 03 days on receipt of LOI/LOA or BHEL intimation.**

Note: - Bidder has to mobilize the site & deploy manpower 03 days before start of work for medical check-up, Police Varification & necessary gate pass procedures & other statutory compliances.

6.1.2 MOBILIZATION FOR ERECTION, TESTING, ASSISTANCE FOR COMMISSIONING, OVERHAULING ETC.

The activities for Overhauling shall be started as per directions of Site In-charge of BHEL. Contractor shall mobilize further resources (in addition to those required for activities under clause no. 6.1.1) as per requirement to commence the Capital Overhauling of 14MW Turbine & Generator of PP2 NSPCL Bhilai (One Unit) and progressively augment the resources to match schedule of the project.

OVERHAULING TIME SCHEDULE IS THE ESSENCE OF THIS CONTRACT. SUBCONTRACTOR SHOULD COMPLETE ALL WORK WITHIN 28 DAYS (FROM STOPPING OF BARRING GEAR TO STARTING OF BARRING GEAR) OF TIGHT SCHEDULE.

START DATE SHALL BE CERTIFIED BY BHEL SITE-INCHARGE.

As informed by Customer M/s. NSPCL Bhilai the one Unit is schedule for shut-down w.e.f. 01.06.2026.

Contract shall be valid for 01 years from the date of order.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VII: TERMS OF PAYMENT

7.1 Payment Terms: -

- 1) 40% on completion of mobilization of site, completion of dismantling work. Documents like Insurance & Labour License to be submitted along with first bill.
- 2) 50% on completion of assembly work & machine put on barring gear.
- 3) Final 10% after commissioning & synchronization of machine and also on payment of all dues and submission of all the documents like No Dues certificate from Customer, IR/HR clearance if required, EPF challan, Insurance, Labour License, Labour Payment sheets, proof of payment of GST, Indemnity Bond to be submitted along with final bill etc.

Note :

1. **For final bill:** -If required documents are not submitted by bidder within 90 days from the date of commissioning, then Penalty of 1% per week of the total contract value will be levied & it is subject to maximum 5% of the contract value shall be deducted from contractor 's bill.
2. Penalty of 1% per day of the total contract value will be levied for improper mobilization of man power and 1% per day for T & P and consumables separately subject to maximum 5% of the contract value shall be deducted from contractor 's bill
3. While submitting the invoices, Vendor should mention their Bank Account No. on each of their invoices for the purpose of making e-payment.
4. The bill due for payment shall be submitted to the Engineer in-charge of BHEL along with documentation of Refund of Retention Money Format No. F24 (Rev 00) (revised format is attached in VOL I BCD 'forms and procedure') at site for necessary verification and processing through proper channel.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: TAXES AND DUTIES

8.0 TAXES, DUTIES, LEVIES (Rev 14 dated 09/10/2020)

- 1) All taxes excluding GST, GST Cess & BOCW Cess **but including, Royalties, fees, license, deposits, commission, any State or Central Levy and other charges whatsoever, if any, shall be borne by you and shall not be payable extra.**
- 2) Any increase of the taxes excluding GST, GST Cess & BOCW Cess, at any stage during execution including extension of the contract shall have to be borne by the contractor. Quoted/ accepted rates/ price shall be inclusive of all such requirements. Please note that since GST on output will be paid by BHEL separately as enumerated below, your quoted rates/ price should be after considering the Input Credit under GST law at your end.
- 3) **GST** :
The successful bidder shall furnish proof of GST registration. GST along with Cess (as applicable) legally leviable & payable by the successful bidder as per GST Law, shall be paid by BHEL. Hence Bidder shall not include GST along with Cess (as applicable) in their quoted price.
- 4) GST charged in the Tax Invoice/Debit note by the contractor shall be released separately to the contractor only after contractor files the outward supply details in GSTR-1 on GSTN portal and input tax credit of such invoice is matched with corresponding details of outward supply of the contractor and has paid the GST at the time of filing the monthly return
- 5) E-invoicing under GST has been implemented with effect from 1st October 2020 for all the taxable persons having turnover more than the threshold limit in any preceding financial year from 2017-18 onwards. Therefore, for all the taxable persons falling under the purview of E-invoice, it is mandatory to mention a valid unique Invoice Reference No. (IRN) and QR code as generated from E-Invoicing portal of the Government for the purpose of issuing a valid Tax Invoice. Only an E-invoice issued in the manner prescribed under rule 48(4) of CGST Rules shall be treated as valid invoice for reimbursement of GST amount.
If the successful Bidder is not falling under the purview of E-Invoicing then he has to submit a declaration in that respect along with relevant financial statements.
- 6) Bidder shall note that the GST Tax Invoice complying with GST Invoice Rules (Section 31 of GST Act & Rules referred there under) wherein the 'Bill To' details will as below:
BHEL GSTN – As per **Annexure -1**
NAME -- Bharat Heavy Electricals Limited
ADDRESS – Site address
- 7) Bidder to immediately intimate on the day of removal of Goods (in case of any supply of goods) to BHEL along with all relevant details and a scanned copy of Tax Invoice to below email ids to enable BHEL to meet its GST related compliances :-
Email id ---- to be intimated later on.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: TAXES AND DUTIES

In case of delay in submission of the abovementioned documents on the date of dispatch, BHEL may incur penalty /interest for not adhering to Invoicing Rules under GST Law. The same will be liable to be recovered from the successful bidder, if such delay is not attributable to BHEL.

- 8) In case of raising any Supplementary Tax Invoice (Debit / Credit Note) Bidder shall issue the same containing all the details as referred to in Section 34 read with Rule 53.
- 9) Bidder shall note that in case GST credit is delayed/ denied to BHEL due to delayed / non receipt of goods and /or tax invoice 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 the vendor along with interest levied / leviable on BHEL, as the case may be.
- 10) Bidder shall upload the Invoices raised on BHEL in GSTR-1 within the prescribed time as given in the GST Act. Bidder shall note that in case of delay in declaring such invoice in your return and GST credit availed by BHEL is denied or reversed subsequently as per GST Law , GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from the bidder along with interest levied / leviable on BHEL.
- 11) Way Bill: Successful Bidder to arrange for way bill / e-waybill for any transfer of goods for the execution of the contract.

The Bidder has to make their own arrangement at their cost for completing the formalities, if required, with Issuing Authorities, for bringing materials, plants & machinery at site for execution of the works under this contract, Road Permit/ Way Bill, if required, shall be arranged by the contractor and BHEL will not supply any Road Permit/ Way Bill for this purpose.

- 12) **New taxes and duties**:-Any New taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period including extension, if the same is not attributable to you, shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties. Benefits and/or abolition of all existing taxes must be passed on to BHEL against new Taxes, if any, proposed to be introduced at a later date. In case any new tax/levy/duty etc. becomes applicable after the date of bidder's offer but before opening of the price bid, the bidder must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of the price bids. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
- 13) For transportation work, bidder shall declare in his quotation whether he is registered under GST, if yes, whether he intends to claim GST on forward charge basis. In absence of

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: TAXES AND DUTIES

this declaration, BHEL will proceed further with the assumption that bidder intends not to claim GST on forward charge basis. However, in case of GST registered transporter, the amount to the extent of goods and service tax will be retained till BHEL avails the credit of GST. Further, transporter shall issue tax invoice which inter alia includes gross weight of the consignment, name of the consigner and the consignee, registration number of vehicle in which the goods are transported, details of goods transported, details of place of origin and destination, GSTIN of the person liable for paying tax whether as consigner, consignee or goods transport agency, and also containing other information as mentioned under rule 46.

- 14) **TDS under Income Tax shall be deducted at prevailing rates on gross invoice value from the running bills unless exemption certificate from the appropriate authority/ authorities is furnished.**
- 15) **TDS under GST shall be deducted at prevailing rates on applicable value from the running bills.**
- 16) **TCS under Income Tax 1961 has been implemented with effect from 1st October 2020 for every seller having turnover more than threshold limit during financial year immediately preceding financial year in which the sale of goods is carried out, who receives any amount as consideration for sale of any goods of the value or aggregate of such value exceeding threshold limit other than export of goods or who is already covered under other provision of section 206C, collect from the buyer, TCS as per applicable rates of the sale consideration exceeding threshold limit subject to following conditions**
 - i. Buyer shall be as per clause (a) of section 206C- (1H)
 - ii. Seller shall be as per clause (b) of section 206C- (1H)
 - iii. No TCS is to be collected, if the seller is liable to collect TCS under other provision of section 206C or the buyer is liable to deduct TDS under any provision of the Act and has deducted such amount.

If Successful Bidder is falling under the purview of TCS then he has to submit a declaration in that respect along with relevant financial statements before the start of work or if bidder is falling under preview of TCS during the work in progress then bidder is compulsorily required to submit relevant financial statement in the beginning of the respective FY.

For TCS claim, vendor has to submit relevant documents required as per Income Tax Act.

- 17) Refer Annexure – 2 for BOCW Act & Cess Act.

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-VIII: TAXES AND DUTIES

ANNEXURE-1

State wise GSTIN no.s of BHEL

Sl. No	Projects under state	GSTIN
1	Andhra Pradesh	37AAACB4146P7Z8
2	Bihar	10AAACB4146P1ZU
3	Chhattisgarh	22AAACB4146P1ZP
4	Gujarat	24AAACB4146P1ZL
5	Jharkhand	20AAACB4146P5ZP
6	Madhya Pradesh	23AAACB4146P1ZN
7	Maharashtra	27AAACB4146P1ZF
8	Orissa	21AAACB4146P1ZR
9	Telangana	36AAACB4146P1ZG

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter-IX: Schedule of Rates and Quantities

Sch no.	Description of Work	UOM	QTY	Percentage w.r.t total lumpsum price quoted in the price bid
01	COH OF TURBINE & GEAR BOX 14 MW	LS	01	51.75%
02	ARRANGEMENT OF TG EXPERTS	Nos	02	3.70%
03	ARRANGEMENT OF SAFETY ENGINEERS ALONG WITH COMPLIANCE OF ALL HSE REQUIREMENTS	LS	01	1.85%
04	REPLACEMENT OF OLD TURBINE ROTOR WITH NEW/REFURBISHED ONE & ITS COMMISSIONING (OPTIONAL)	LS	01	3.25%
05	REPLACEMENT OF JOURNAL BEARING OF TURBINE GENERATOR OR GEAR BOX (OPTIONAL)	Nos.	02	2.00%
06	REMOVAL OF OLD DEFUNCT ASKANIYA GOVERNING SYSTEM	LS	01	2.85%
07	CAPITAL OH OF THE GENERATOR, REPLACEMENT OF EXISTING ROTOR WITH NEW SPARE ROTOR, REPLACEMENT OF GENERATOR BEARINGS IF REQUIRED, ELECTRICAL TESTING	LS	01	32.60%
08	ELECTRICAL TESTING ON ROTOR & STATOR	LS	01	2.00%
TOTAL Lump-sum value to be quoted by the bidder in VOL II Price Bid				100%