TENDER DOCUMENTS
FOR
MAJOR OVERHAUL AND INSPECTION
OF
FRAME 5 GAS TURBINES GTG-1 & GTG-3
AND
OTHER ASSOCIATED JOBS WITH
OVERHAUL & INSPECTIONS
IN CPP PLANT
AT
N.F.L., VIJAIPUR

NATIONAL FERTILIZERS LIMITED
VIJAIPUR UNIT
INTRODUCTION

National Fertilizers Limited is operating Plants at Vijaipur, Guna District, M.P., India, and producing Ammonia & urea. The Ammonia-II Plant is facilitated with the provision of Gas Turbine Generator units (17MWx3No) for power generation and one Gas Turbine (GT-3461) as Drive for Process Air Compressor.

The subject tender is for Pre-qualification of bidders for a period of three years for Major Overhauling of above Gas Turbines as well as for carrying out Major Overhauling of Gas Turbines GTG-1 & GTG-3 as per NIT.
MECHANICAL DEPARTMENT

JOB-1: MAJOR OVERHAUL AND INSPECTION OF GTG-1 FRAME 5 GAS TURBINE

This GTG-1 has operated continuously since its 2nd major overhaul held in December-2002 and will be logging 61000 hours in August 2013 and is due for “Major Overhaul” as defined in General Electric (GE) terminology

TECHNICAL DATA OF GTG-1

<table>
<thead>
<tr>
<th>Gas turbine Type/ Model</th>
<th>PG5361P / MS5001P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine No. &amp; Purchase Order</td>
<td>T-234 &amp; 53T13037TB5</td>
</tr>
<tr>
<td>JOB CODE</td>
<td>0-3500-0-6-000-NFL-CPP-P5</td>
</tr>
<tr>
<td>Make</td>
<td>Alstom, France</td>
</tr>
<tr>
<td>Gas Turbine Application</td>
<td>Power Generation</td>
</tr>
<tr>
<td>Cycle</td>
<td>Exhaust heat recovery type</td>
</tr>
<tr>
<td>Shaft Rotation</td>
<td>Clockwise (Viewed against shaft end)</td>
</tr>
<tr>
<td>Type of operation</td>
<td>Base Load</td>
</tr>
<tr>
<td>Shaft speed</td>
<td>5109 RPM</td>
</tr>
<tr>
<td>Control</td>
<td>MARK IV SPEEDTRONIC</td>
</tr>
<tr>
<td>Protection</td>
<td>Overspeed, Overtemp, Vibration and Flame Detection</td>
</tr>
<tr>
<td>Base Output (NG)</td>
<td>17.225 MW</td>
</tr>
<tr>
<td>Acc. Gear/Load Gear Sr. No.</td>
<td>2974/ 2937, Graffenstaden, France make</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.9575 Kg/cm2</td>
</tr>
<tr>
<td>Number of Turbine stages</td>
<td>2 (Single Shaft)</td>
</tr>
<tr>
<td>Casing Split</td>
<td>Horizontal</td>
</tr>
<tr>
<td>Compressor</td>
<td>17 stage, Axial flow. Heavy duty, horizontal casing split, Modulating IGV</td>
</tr>
<tr>
<td>Combustion section</td>
<td>Naphtha/NG gas fuel, 10 multiple can combustors, reverse flow design, concentrically located around the compressor 1 per chamber.</td>
</tr>
<tr>
<td>Journal Bearing</td>
<td>2 no. Journal bearings, pressure lubricated,</td>
</tr>
<tr>
<td>Thrust Bearing</td>
<td>Tilting pad Active and non-active thrust and journal, all contained in one assly.</td>
</tr>
</tbody>
</table>
This GT has operated continuously since its 1st major overhaul held in February 2006 and will be logging 59000 hours in August 2013 and is due for “Major Overhaul” as defined in General Electric (GE) terminology

**TECHNICAL DATA OF GTG-3**

<table>
<thead>
<tr>
<th>Gas turbine Type/ Model</th>
<th>PG5371(PA) / MS5001P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sr. No &amp; Model Memo Number</td>
<td>296936 &amp; RA9175</td>
</tr>
<tr>
<td>Model list number</td>
<td>7L5A1 - PP1 / 5A1PP464-1</td>
</tr>
<tr>
<td>Make</td>
<td>Thomassen International bv, Netherlands</td>
</tr>
<tr>
<td>Gas Turbine Application</td>
<td>Generator drive for Power Generation</td>
</tr>
<tr>
<td>Cycle</td>
<td>Simple, Exhaust heat recovery type</td>
</tr>
<tr>
<td>Shaft Rotation</td>
<td>Clockwise (Viewed against shaft end)</td>
</tr>
<tr>
<td>Type of operation</td>
<td>Base Load</td>
</tr>
<tr>
<td>Shaft speed</td>
<td>5114 RPM</td>
</tr>
<tr>
<td>Control</td>
<td>MARK V SPEEDTRONIC</td>
</tr>
<tr>
<td>Protection</td>
<td>Overspeed, Overtemp, Vibration and Flame Detection</td>
</tr>
<tr>
<td>Base Output (NG)</td>
<td>20.410 MW</td>
</tr>
<tr>
<td>Acc. Gear/Load Gear Sr. No.</td>
<td>2974/ 2937, Graffenstaden, France make</td>
</tr>
<tr>
<td>Pressure</td>
<td>990 mbar</td>
</tr>
<tr>
<td>Number of Turbine stages</td>
<td>2 (Single Shaft)</td>
</tr>
<tr>
<td>Casing Split</td>
<td>Horizontal</td>
</tr>
<tr>
<td>Compressor</td>
<td>17 stage, Axial flow. Heavy duty, horizontal casing split, Modulating IGV</td>
</tr>
<tr>
<td>Combustion section</td>
<td>Naphtha/NG gas Dual fuel, 10 multiple can combustors, reverse flow design, concentrically located around the compressor 1 per chamber.</td>
</tr>
<tr>
<td>Journal Bearing</td>
<td>2 no. Journal bearings, pressure lubricated,</td>
</tr>
<tr>
<td>Thrust Bearing</td>
<td>Tilting pad Active and non-active thrust and journal, all contained in one assly.</td>
</tr>
<tr>
<td>Generator</td>
<td>Air cooled, open ventilated, 30.625kVA, 1500 rpm, 11kV, 50Hz.</td>
</tr>
<tr>
<td>Reduction Gear box</td>
<td>TGS63, 5114/3000rpm, 31.5MW</td>
</tr>
</tbody>
</table>
I. SCOPE OF WORK FOR JOB-1 (GTG-1):

The scope of work of this tender is “Major Overhaul & Inspection and other related jobs associated with M.I. & high vibration analysis & rectification of Gas Turbine GTG-1 in CPP Plant of NFL Vijaipur” on turnkey basis which includes all the jobs related Major Overhaul as defined in GE recommended practice for Major overhaul and will include but not be limited to complete measurements of clearances, alignment reading both sides prior to tripping of gas turbine, stripping of gas turbine, cleaning, measurements, inspection, repair / replacement of damaged portion of Gas turbine, reassembly, noting new clearances and ensuring that they are within GE prescribed limits and making GT fit for operation, starting it up and loading to base load.

The contract is to be executed on Lump sum basis, based on details as noted below.

Any minor jobs / overhaul / inspection, as may be needed on Gas Turbine and their Auxiliaries during the overhaul will be carried out within lump sum quoted rate.

Any change, alteration or increase to this minimum scope, due to defects / repairs as needed, because of condition of Gas Turbine, will be covered in the scope of this contract and no extra will be payable on this account.

The maintenance time schedule / plan in time bar schedule and method statement, as needed for above overhaul will be prepared by tenderer and submitted along with bid.

The scope of work does not include any instrument cabling or electrical work associated with GT overhaul but will include mechanical activities as may be needed on all GT components overhaul.

The Scope of Contractor shall include but not limited to following:

A. Monitoring the vibrations for problem assessment & rectification
   1. To take the required data and Vibration analysis to diagnose the problem of heavy vibration (occurring during start-up only). This has to be recorded prior to overhauling for problem assessment and its rectifications during M.I.
   2. Analysing the problem and point out the reason/sources
   3. Line of action for rectification the reason/sources during Major Overhaul.

B. Major Overhaul of Frame 5 GE designed Gas Turbine, Flange to Flange as per recommendations of GE.

B.1. Prior to disassembly
   1. Record operating data & take shutdown of machine.
   2. Check dampers, doors, fans operation, leakages and emergency lube oil pump operation.
   3. Remove Load & accessory coupling and check & record alignment of the complete train (Between A.G.B to Turbine to R.G.B to Generator)
   4. Other jobs on Frame 5 Gas Turbine.

B.2. Disassembly
   1. Remove complete enclosure (roof, panels, doors etc), ducts and associated piping etc for access of turbine & compressor.
   2. Remove fuel nozzles, associated piping, tubing and devices e.t.c. as required.
   3. Remove com. chamber covers and com. items cross fire tube, retainers and Liners.
   4. Perform six points check of rotor (positioning).
   5. Remove cooling & sealing air piping and wheel space thermocouple.
   6. Provide Mechanical jacks under casings as recommended in manual.
7. Remove turbine & compressor upper half casings and place on wooden logs after removal of turbine eccentric pins.
8. Remove inlet elbows ducts (Inlet Plenum), transition piece, bell mouth (inlet casing) and intermediate casing.
9. Removal the Flex seals in segments from both forward & backward ends of exhaust plenum. These are fixed with turbine exhaust casing at forward end and with exit turning vane diffuser at aft end.
10. Remove combustion transition pieces.
11. Remove 1\textsuperscript{st} & 2\textsuperscript{nd} stage Nozzle
12. Remove, inspect and record clearances of bearing including DP Testing of bearing liners and active & non-active pads.
13. Remove turbine rotor and inspect.
14. Remove the covers of oil coolers and pulled the bundle for inspection.
15. Overhauling of MOP, AOP and EOP Pumps

\textbf{B.3. Repair, Inspection & Cleaning:}
1. Inspection of IGV blades, backlash & bush clearances measurement and recording the same on inspection sheet. Correction of the same by repair / replacement and redowelling, if required.
2. Carry out Zyglo check on turbine bucket
3. Observation of ovality on segment plate / ring on up-stream of exhaust casing,
4. Clean, inspect & record in standard formats all disassembled GT components as per standard practice defined by OEM.
5. Checking and replacement, if needed, of 1\textsuperscript{st} and 2\textsuperscript{nd} stage shrouds.
6. Clean Turbine blades, nozzles, liners, cross fire tubes & transition pieces and carry out the DP test for detecting the cracks.
7. Clean compressor stator and rotor blades with steam, detergent, diesel, and fine emery paper.
8. DP test of the bearing liner and check the clearances.
9. Dismantle Fuel nozzles, clean / lap the nozzle components, assemble & test on rig at Site.
10. Check & clean as needed all Liquid & purge check valves as required.
11. Opening & cleaning lube oil heat exchanger & atomizing air coolers.

\textbf{B.4. Reassembly:}
1. Drilling out broken bolts & re tapping in casings for providing Helicoil inserts (exhaust casing, compressor discharge casing and exhaust plenum and repair exhaust roof bolts) as may be needed. Other damaged and undamaged threads to be cleaned and retapped as needed.
2. Reassemble the turbine with old / new components.
3. Position the rotor.
4. Check turbine & compressor clearance and record in standard formats.
5. Assemble all casings.
6. Assemble combustion parts & casings.
7. Check & correct alignments and assemble coupling of Acc. Gear box to Rotor, Rotor to Load Gear box and Load Gear box to Generator also.
8. Remove, clean & replace all identified lube oil, hydraulic oil filters as required.
9. Reassemble lobe oil heat exchanger & atomizing air cooler.
10. Perform all start up checks and prepare the machine for startup.
B.5. **Start up:**

1. Assist & overview in running the machine to FSNL and monitor & record all operating parameter.
2. Assist & Overview in loading the machine to base load.
3. Compare the reading during start-up with the previous readings.
4. In case, any problem is encountered while loading / operating the machine at base load, attributable to the overhaul carried out, the same would be analyzed and corrected at the instant, if necessary by re opening the machine within the quoted lump sum rate.

C. **Related Jobs on Frame 5, Gas turbine during Major overhaul:**

1. Opening of exit-turning vanes bolt and sliding out turning vanes from aft end.
2. Inspection and repairing of Exhaust plenum trays / bottom panels.
3. Inspection of Auxiliary Gear box from inspection windows and further inspection if any abnormality is found. Rectification of the same.
4. Repair exhaust compartment's side & bottom panels.
5. Repairing the exhaust plenum panels by packing the rock wool.
6. Overhauling of the IGV operating jacks and inspection / repair of rack and pinion.
7. All the tool and tackles will be in the scope of the Party.

D. **Submission of Detailed Overhaul & Inspection Report**

1. Two Original Sets of reports will be submitted within 2 week of completion of overhaul. These reports will have sufficient photographs, Filled GE Standard Forms for various components inspected, detailed assessment of damages referenced to part number & repairs needed at next inspection / overhaul.
2. All the clearances as noted during dismantling, reassembly & damages as noted in the formats will have countersignature of Engineer In charge of NFL.
3. In addition, two sets of interim reports (2 to 3 Pages) listing major observation recorded during overhaul will be submitted immediately on completion of overhaul.

II. **SCOPE OF WORK FOR JOB-2 (GTG-3):**

Scope of work includes but not limited to the following:

The scope of work of this tender is “Major Overhaul & Inspection and other related jobs associated with M.I. & high vibration analysis & rectification of Gas Turbine GTG-1 in CPP Plant of NFL Vijaipur” on turnkey basis which includes all the jobs related Major Overhaul as defined in GE recommended practice for Major overhaul and will include but not be limited to complete measurements of clearances, alignment reading both sides prior to stripping of gas turbine, stripping of gas turbine, cleaning, measurements, inspection, repair / replacement of damaged portion of Gas turbine, reassembly, noting new clearances and ensuring that they are within GE prescribed limits and making GT fit for operation, starting it up and loading to base load.

The contract is to be executed on Lump sum basis, based on details as noted below.

Any minor jobs / overhaul / inspection, as may be needed on Gas Turbine and their Auxiliaries during the overhaul will be carried out within lump sum quoted rate.

Any change, alteration or increase to this minimum scope, due to defects / repairs as needed, because of condition of Gas Turbine, will be covered in the scope of this contract and no extra will be payable on this account.
The maintenance time schedule / plan in time bar schedule and method statement, as needed for above overhaul will be prepared by tenderer and submitted along with bid.

The scope of work does not include any instrument cabling or electrical work associated with GT overhaul but will include mechanical activities as may be needed on all GT components overhaul.

The Scope of Contractor shall include but not limited to following:

A. **Major Overhaul of Frame 5 GE designed Gas Turbine, Flange to Flange as per recommendations of GE.**

A.1. **Prior to disassembly**
   1. Record operating data & take shutdown of machine.
   2. Check dampers, doors, fans operation, leakages and emergency lube oil pump operation.
   3. Remove Load & accessory coupling and check & record alignment of the complete train (Between A.G.B to Turbine to R.G.B to Generator)
   4. Other jobs on Frame 5 Gas Turbine.

A.2. **Disassembly**
   1. Remove complete enclosure (roof, panels, doors etc), ducts and associated piping etc for access of turbine & compressor.
   2. Remove fuel nozzles, associated piping, tubing and devices e.t.c. as required.
   3. Remove com. chamber covers and com. items cross fire tube, retainers and Liners.
   4. Perform six points check of rotor (positioning ).
   5. Remove cooling & sealing air piping and wheel space thermocouple.
   6. Provide Mechanical jacks under casings as recommended in manual.
   7. Remove turbine & compressor upper half casings and place on wooden logs after removal of turbine eccentric pins.
   8. Remove inlet elbows ducts (Inlet Plenum), transition piece, bell mouth (inlet casing) and intermediate casing.
   9. Removal the Flex seals in segments from both forward & backward ends of exhaust plenum. These are fixed with turbine exhaust casing at forward end and with exit turning vane diffuser at aft end.
   10. Remove combustion transition pieces.
   11. Remove 1st & 2nd stage Nozzle
   12. Remove, inspect and record clearances of bearing including DP Testing of bearing liners and active & non-active pads.
   13. Remove turbine rotor and inspect.
   14. Remove the covers of oil coolers and pulled the bundle for inspection.
   15. Overhauling of MOP, AOP and EOP Pumps

A.3. **Repair, Inspection & Cleaning:**
   1. Inspection of IGV blades, backlash & bush clearances measurement and recording the same on inspection sheet. Correction of the same by repair / replacement and redwelling, if required.
   2. Carry out Zyglo check on turbine bucket
   3. Observation of ovality on segment plate / ring on up-stream of exhaust casing,
   4. Clean, inspect & record in standard formats all disassembled GT components as per standard practice defined by OEM.
   5. Checking and replacement, if needed, of 1st and 2nd stage shrouds.
6. Clean Turbine blades, nozzles, liners, cross fire tubes & transition pieces and carry out the DP test for detecting the cracks.
7. Clean compressor stator and rotor blades with steam, detergent, diesel, and fine emery paper.
8. DP test of the bearing liner and check the clearances.
9. Dismantle Fuel nozzles, clean / lap the nozzle components, assemble & test on rig at Site.
10. Check & clean as needed all Liquid & purge check valves as required.
11. Opening & cleaning lube oil heat exchanger & atomizing air coolers.

A.4. **Reassembly:**
1. Drilling out broken bolts & re tapping in casings for providing Helicoil inserts (exhaust casing, compressor discharge casing and exhaust plenum and repair exhaust roof bolts) as may be needed. Other damaged and undamaged threads to be cleaned and re-tapped as needed.
2. Reassemble the turbine with old / new components.
3. Position the rotor.
4. Check turbine & compressor clearance and record in standard formats.
5. Assemble all casings.
6. Assemble combustion parts & casings.
7. Check & correct alignments and assemble coupling of Acc. Gear box to Rotor, Rotor to Load Gear box and Load Gear box to Generator also.
8. Remove, clean & replace all identified lube oil, hydraulic oil filters as required.
9. Reassemble lube oil heat exchanger & atomizing air cooler.
10. Perform all start up checks and prepare the machine for start-up.

A.5. **Start up:**
1. Assist & overview in running the machine to FSNL and monitor & record all operating parameter.
2. Assist & Overview in loading the machine to base load.
3. Compare the reading during start-up with the previous readings.
4. In case, any problem is encountered while loading / operating the machine at base load, attributable to the overhaul carried out, the same would be analyzed and corrected at the instant, if necessary by re opening the machine within the quoted lump sum rate.

A.6. **Related Jobs on Frame 5, Gas turbine during Major overhaul:**
1. Opening of exit-turning vanes bolt and sliding out turning vanes from aft end.
2. Inspection and repairing of Exhaust plenum trays / bottom panels.
3. Inspection of Auxiliary Gear box from inspection windows and further inspection if any abnormality is found. Rectification of the same.
4. Repair exhaust compartment's side & bottom panels.
5. Repairing the exhaust plenum panels by packing the rock wool.
6. Overhauling of the IGV operating jacks and inspection / repair of rack and pinion.
7. All the tool and tackles will be in the scope of the Party.

B. **Submission of Detailed Overhaul & Inspection Report**
1. Two Original Sets of reports will be submitted within 2 week of completion of overhaul. These reports will have sufficient photographs, Filled GE Standard Forms for various
components inspected, detailed assessment of damages referenced to part number & repairs needed at next inspection / overhaul.

2. All the clearances as noted during dismantling, reassembly & damages as noted in the formats will have countersignature of Engineer In charge of NFL.

3. In addition, two sets of interim reports (2 to 3 Pages) listing major observation recorded during overhaul will be submitted immediately on completion of overhaul.

III. CONTRACTOR’S SCOPE:

1. To draw material and spares from stores / workshop and transporting it to site for use in replacement job.

2. Disassembly and assembly of parts / subassemblies, checking, cleaning & preparing and reassembling after testing the sub assemblies.

3. Contractor shall make all temporary connections for connecting utilities (air/water/power) to the point where needed on the gas turbine.

4. Continuous site housekeeping and regular maintenance utilities for this job.

5. Any deviation, alteration, omissions, modifications etc. as per site condition & / or instruction of NFL engineer in-charge shall be made by contractor within their quoted rates to complete the job.

6. To return the dismantled / excess / scrap material to NFL store & shall follow the instructions of engineer in-charge. The site shall be left clean after the completion of job.

7. The contractor shall understand that he is working in a major shutdown and shall work accordingly. The scope of work & sequence of operation given is only as guidelines of major operations involved and the contractor shall carry out any such minor jobs not detailed herein which may be needed for execution of this job.

8. Removal of all the slip plating in the flanges & lapping of gasket surfaces properly & piping with valves shall be boxed up & tightened with special tools.

9. Personal Protective Safety Equipment like Safety Helmets, Safety Goggles, Face Shields, Safety Belts, Hand Gloves etc. In case, if the contractor does not provide the Protective Equipments, then the same will be issued to them on “Non-Returning Basis”, and the equivalent cost of the same will be recovered from their payments.

10. All personnel of contractor shall move in the plant premises with Gate pass issued to them by NFL.

11. Qualified Lead engineers, Supervisors having a training / work experience with GE and working for last 2 years with the bidder or the OEM of the Gas Turbines installed at NFL Vijaipur.

12. Required Manpower like Technicians, Special Fitters, Grinder, Riggers, and Semi Skilled Workers, Welders etc. to complete the job within time schedule and as per requirement of site.

13. All Tools, Tackles, special fixtures, big & small slings, D Shackles, Welding Consumables (filler wires & electrodes) required for carrying out the job.

14. Welding Machines along with all accessories like, Welding Cable, ‘TIG’ Torch, Tungsten Electrodes, Ceramic Nozzles, Argon Regulators, Argon Hose, Argon Flow Meter, Cylinder Key, Slip-on Couplings, Current Regulator etc.

15. Gas Cutting Set consisting of Cutting Torch, Nozzles, Hoses & Regulators for Oxygen & DA, Lighter, Cylinder Key etc.


17. Measuring instruments like inside calliper, Bore Gauge, Vernier, Measuring Tape etc. for inspection.

18. Scaffolding material, manila rope, rope ladders, Tarpaulin, masali etc.
19. To arrange Police verification of their manpower for making Gate passes to enter NFL, Vijaipur factory premises, which is mandatory.

20. To make all the necessary security arrangements, at his own cost, for his office & stores, to ensure safety of all equipment / material.

21. To & fro Local Travelling, Lodging and Boarding of their staff and workers from work site to their place of stay.

IV. NFL'S SCOPE:

NFL shall provide following free of cost for carrying out the job as per scope:

1. Store cum Office space at site.
2. Workshop facilities for any repair as may be needed on dismantled components.
4. Suitable Crane, Fork Lifter, Mini Truck etc. along with operator as per requirement of job and as assessed by Engineer in Charge. However, an EOT Crane of 10 T SWL is available in the GTG shed.
5. Argon, Oxygen & DA Gas Cylinders.
6. Temporary LT Power Supply 3 phase, 50 Hz, 415 Volt with TPN switch, Flood Lights, Hand Lamps, Extension Boards etc.
7. Compressed Air at a Pressure of 6 kg/cm2 (g) (max) at one point.
8. L. P. Steam & DM water for cleaning of parts.
9. Lodging for Contractor’s staff and workmen, if required, on chargeable basis, subject to availability.
10. Medical facilities, as available in NFL Hospital, on chargeable basis subject to availability.

V. TIME SCHEDULE:

1. The tentative date of commencement of work would be September 2014 for JOB-1 and April 2015 for JOB-2. However, the same may get pre-pone or post-pone as per plant requirement. Mobilization of Men and Material shall be done within 10 (Ten) days of our intimation by Fax / Telephone / E-mail. However, the mobilization should be done as quickly as possible and the Tenderer shall mention the Minimum Time Period, required for site mobilization in the Tender. The site mobilization shall be completed within agreed Time Period.

2. Work shall be done on round-the-clock basis including on intervening Sundays, holidays etc. so as to complete JOB-1 of GTG-1 within 18 (eighteen days) and JOB-2 of GTG-3 within 15 (Fifteen) days after handing over the machine by NFL.

3. The start of job will be so planned so that it immediately commences on completion of mobilization period of 10 days.

4. In case the service provider / contractor is able to complete the job at an earlier date then the Gas turbine can be tested prior to completion of 18 days and the contractor can be released from site at an early date.

5. Time will be crucial part of this job as in no case any activity can be delayed.

6. If due to exigencies of job, the time of completion extends beyond 15 days from the time on which the site is handed over to the tenderer, during the shutdown period, attributable to NFL, then contractor has to keep his staff, for a further period of 7 days as free overrun period, for which no additional charges will be borne by NFL. The number of personnel as required will be as per mutual agreement on the basis of job.

7. Damages for delay as per contract will be applicable in case of delay in completion of this job is attributable to the contractor.
VI. SPECIAL TERMS & CONDITIONS:

1. In case of execution of Major Overhauling of the subject work through Indian representative/business associates/sub-contractors offered by the bidders, the following shall be in the scope of bidders themselves:
   
   1.1. Submission of Earnest Money Deposit and Tender Fee
   
   1.2. Submission of SD-cum PBG Performance Bank Guarantee as per Clause No. VII.10 of General Terms & condition of NIT.
   
   1.3. The supervision, governing & control of the Job at site.
   
   1.4. Deputation of bidder’s Lead engineer, Supervisor as per Eligibility Criteria clause No. 1.3 for execution of the job.
   
   1.5. The Guarantee of the executed job against clause No. VII. 14 of of General Terms & condition of NIT
   
   1.6. Submission of all technical report, certificates & other documents as per clause No. I.D & II.B of tender documents.

2. During monsoon and at other time, it shall be the responsibility of the Contractor to keep the work site & stores free from water & ingress of moisture at his own cost to avoid interruption of work. No compensation for any damage due to rain, storm etc., during execution of work, shall be made by NFL.

3. Inspection: The entire work covered under contract shall be inspected by NFL’s Engineer In-Charge from time to time as well as on its completion subject to Inspection as below. The work will have to be completed to the entire satisfaction of the Engineer In-Charge.:
   
   2.1. **Prior to job starting**: Manpower, Equipment / Machines, Tools and Tackles, Consumables, Personal Protective Equipment etc., all are as per scope mentioned above at “Contractors Scope”.
   
   2.2. **During job in progress**: As per “Scope of Work” mentioned above in **JOB-1 and JOB-2**.
   
   2.3. **After completion of job**: Returning of material and cleaning of site as per scope mentioned above at “Contractors Scope”.

4. The tenderer shall submit Guarantee Certificate as per clause no. VII. 14.
VII. GENERAL TERMS & CONDITIONS:

1. Interested Tenderer, after studying all the tender documents carefully, may also see the job physically at site and obtain necessary clarifications, if any, before submitting their tenders. The tenderer should satisfy himself with the site conditions prevailing at the place of work. **No claim on ground of want of knowledge in this respect will be entertained. No claim for extra charges consequent upon any misunderstanding or otherwise will be allowed.**

2. The company reserves the right to accept the lowest or any other tender in part or in full or award parallel contracts or reject all or any of the tenders without assigning any reasons.

3. **The following tenders will be liable to summary rejection:**
   3.1. Tenders submitted by Tenderer who resort to canvassing.
   3.2. Tenders, which do not fulfil any of the conditions, laid down in the Tender Documents or are incomplete, in any respect.
   3.3. Tenders not accompanying the required details / Tender Cost / Earnest Money etc.
   3.4. Tenders received late / delayed.
   3.5. Tenders, who contain uncalled for remarks or any alternative additional conditions.

4. The execution of the work may entail working in all the site and weather conditions and no extra rate will be considered on this account. The Contractor may have to carry out the work on round the clock basis including on intervening Sundays, holidays. Tenderer shall take this aspect into consideration for formulating his rates and quotation. No extra claim / overtime shall be paid on this account.

5. **Quantum of Job:** The estimated value of work has been given on the basis of technical assessment and indicates approximate quantities. However, the Contractor shall have to execute any or all the jobs depending upon the requirements of the Plant. The rates shall remain firm for the increased or decreased quantities. **However, NFL will not give any guarantee for minimum billing or minimum quantum of work during the contract.**

6. **Splitting of Work:** N.F.L reserves the right to split work i.e. JOB-1 to one Tenderer and JOB-2 to the other Tenderer as the same shall be carried out at different period of time.

7. **Validity of Contract:**
   7.1 The contract shall remain **valid for a period of 12 (Twelve) months** reckoned from the date of its award. The job can, therefore, be got done any time during the tenure of the contract. Normally, a Notice of 30 days would be given for starting the job but the Tenderer should be able to mobilize as quickly as possible, if the necessity so arises.

   7.2 The contract can further be **extended for a period of 3 (Three) months** at the discretion of NFL.

8. **Escalation in Rates:** The rates quoted will be firm till the currency of the contract and will not be subjected to escalation irrespective of any increase whatsoever in labour or material cost etc.

9. **Earnest Money Deposit:**
   9.1 The Tenderer shall make a deposit of Rs. 1,00,000.00 (One lac only) / US $ 1660.00 (One thousand six hundred sixty US dollar) as Earnest Money and Rs. 1000.00 (Rupees one thousand only) as Tender Fees deposit in the form of an A/c. Payee Demand Draft, payable at SBI Bavrikhed (Code No. 8455) drawn in favour of M/s. National Fertilizers Limited, Vijaipur. The Earnest Money shall not be accepted in any form other than specified above. Earnest Money should accompany the tender in a separate envelope without which tender will not be opened and it will be considered as rejected. No interest shall be payable on EMD.
9.2 The Tenderer, registered under National Small Scale Industries are exempted from submission of E.M.D., subjected to submission of relevant certificate from concerned Authority alongwith Tender Documents.

9.3 EMD of unsuccessful bidders shall be refunded after award of LOI/W.O. to successful bidder

9.4 **Forfeiture of EMD:** NFL reserves the right to forfeit the EMD in the following conditions:
   
   9.4.1 Withdrawal of bid before opening of the bid or during validity including extended period, if any.
   
   9.4.2 Any modification/amendment by the bidder after submission of the bid.
   
   9.4.3 If, after receipt of acceptance, to the bid from NFL, the bidder refuse to commence the work or to enter into contract.
   
   9.4.4 In case the bidder has any relationship whether by blood or otherwise with NFL, such relationship must be disclosed while submitting bid/Tender.

10. **Security Deposit (S.D.)** together with EMD Shall be 10% of the Work Order value which is required to be deposited within 15 days of the receipt of Work Order. Alternatively, Performance Bank Guarantee from any Nationalised / Scheduled Bank except Rural or Co-Operative Bank may be submitted for 10% of the contract value. The Performance Bank Guarantee shall be valid till the expiry of defect liability period with provision for claim period up to 6 months. The Security Deposit shall be refunded after expiry of Defect Liability / Guarantee Period and shall be claimed up to period of 6 months. No interest shall be paid on E.M.D., and S.D.

11. **Terms of Payment:** 100% payment shall be made through Electronic Mode after making necessary recoveries for Income Tax, Works Tax etc. as applicable as per Terms & Conditions of NIT, after satisfactory completion of the work as per scope and submission of bill. The following information may be furnished along with the Tender:
   
   
   11.2 The details of Tenderer Account Number, Name, Address, Branch, Branch Code, RTGS Code & MICR Number of the Tenderer Bank.
   
   11.3 Income Tax Permanent Account Number (I-Tax PAN): The Tenderer shall mention the new series Permanent Account Number allotted by the Income Tax Authorities in his Tender

12. **Liquidated Damages:** In the event of work is not completed according to the time schedule, you shall have to pay Liquidated Damages to NFL @ of 1 % of the total value of work for delay of every day or part thereof, subject to a ceiling of 10 % of the total value of the work.

13. **Tax Deduction at Source:** Statutory deduction on account of Income Tax / Works Tax & other Taxes on Works Contracts shall be made from the bill of the Tenderer at the prevailing rates, as per Income Tax Laws / Commercial Tax Laws of M.P. at the time of release of payment to the Tenderer.

14. **Period of Liability:** Tenderer will stand guarantee for the work done for trouble free operation for a period of 12 months from the date of commissioning or 18 months from the date of completion of work whichever is earlier. Any damage or defect or other faults that may arise or lie undiscovered at the time of issue of completion certificate, or appear within defect liability period after the virtual completion of the work, arising in the opinion of the owner from material or workmanship not in accordance with the contract, shall upon the directions in writing of the owner and within such reasonable period specified therein, shall be rectified by the Tenderer at his cost, most expeditiously or in case of default, NFL may cause the same to be made good by other workmen and deduct expenses from any sums that may be there or at any time thereafter become due to the Tenderer or from his security deposit. NFL shall be under no obligation to accept / entertain any claim / demand whatsoever in this behalf. The
The workmanship guarantee for rectified portion of work shall commence from the date of rectification for a subsequent period of 12 (twelve) months of the balance period as stated above, whichever is later.

The Contractor shall be responsible for the proper workmanship and shall not be relieved of his obligation in this regard just because NFL raised no objection during the progress of work. The decision of the Owner regarding bad workmanship shall be final, binding and conclusive.

Any defect noticed during the various stages of inspection during work under progress as per scope shall be made good by the Contractor to the satisfaction of NFL before proceeding further. Irrespective of the inspection, repair and approval at intermediate stages of work, the Contractor shall be responsible for making good any defect found during final inspection and guarantee period.

15. **Sub-Contracting:** Sub-Contracting of the job is will not be allowed.

16. If the Contractor fails to fulfil his obligations under the contract, NFL shall have the right to get the work done by the agency other than the Contractor, at the Risk and Cost of the Contractor, till the expiry of the period of the contract.

17. **Termination of Contract:** If the Contractor is unable to execute the work, any loss incurred by the company in this respect will be to the Contractor's account. The company may also terminate the contract after giving a 1 (One) day notice in writing, if in its opinion; the work under the contract is not being done to its satisfaction if:

17.1 At any time, the Contractor makes default in proceeding with the work / job with due diligence and continues to do so after giving in writing a notice of 1 day from the Engineer In-Charge, or

17.2 If the Contractor persistently disregards the instructions of Engineer In-Charge or fails to take steps to employ competent or additional staff required or commits default in complying with any of the terms and conditions of the contract and does not remedy it or does not take steps to remedy it within 3 days after notice in writing given to him by the Engineer In-Charge, or

17.3 If the Contractor obtains the contract with NFL as a result of ring tendering or other non-bona fide methods of competitive tendering, or

17.4 If the Contractor assigns, transfers or sublets or attempts to assign, transfer or sublet the entire work or any portion thereof without the prior written approval of the accepting authority, or

17.5 If the Contractor abandons the contract.

17.6 If the Contractor becomes bankrupt / insolvent.

NFL shall have right to get the leftover job done by alternative agencies at the Risk & Cost of the Contractor besides other legal remedies available to it.

18. **Engineer In-Charge:** The Engineer In-Charge shall have general supervision and direction of the work. He has authority to stop the work whenever such a stoppage may be necessary to ensure the proper execution of the contract. He shall also have authority to reject all work, direct the application of forces to any portion of the work as, in his judgment, is required and order force increased or diminished and to decide disputes which arise in the execution of the work. The Engineer In-Charge reserves the right to suspend the work or the 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. The decision of the Engineer In-Charge of National Fertilizers Limited shall be final in regard to all matters relating to this Tender including for determining the category of work with reference to material of an item not mentioned in the Scope of Work.
19. The Contractor may employ such employees / labourers, as he may think fit. Such employees would be employees of the Contractor for all-purpose whatsoever and shall not be deemed to be in the employment of NFL for any purpose whatsoever. The Contractor shall adhere to all the Laws, Rules and Regulations that may be in force from time to time concerning the employment or service conditions of its employees. If under any eventuality whatsoever, NFL is held liable or responsible in any manner whatsoever for the default or omission on the part of the Contractor in abiding by the aforesaid Rules, Regulations & Laws or held liable or responsible to the employees of the Contractor in respect of any matter whatsoever, and called upon to make payment on that account, the Contractor shall reimburse NFL for the same as also any other expenses, costs & charges incurred by NFL in any proceedings or litigation arising out of any claim, demand or act on the part of the Contractor. NFL shall be entitled to claim damages or compensation from the Contractor in that event. NFL shall also be entitled to recover the aforesaid amount from the money that may become due and payable to the Contractor.

20. **Contractor to Remove Unsuitable Employees:** The Contractor shall, on instruction of the Engineer In-Charge, immediately remove from the work any person employed thereon who misbehaves or causes any nuisance or otherwise in the opinion of the Engineer In-Charge is not a fit person to be retained on the work and such person shall not be again employed or allowed on the works without the prior written permission of the Engineer In-Charge.

21. The Contractor shall be liable to the company for any Omission or Commission on his part or on the part of his employees causing any loss, damages or inconvenience to the plant/company. It is understood by the Contractor that in the event of any losses/damages caused to the owner due to the reasons whatsoever within his control and the same losses/damages are proved, the Contractor shall make good all the consequential losses/damages to the owner without any protest & demur. These losses/damages shall be apart from other claims/damages to which the owner is entitled under the contract or in the course of law.

22. **Loss to Plant During Execution:** Any damage or loss caused to the plant equipment etc., during execution of this contract by the Contractor’s employees will be made good by the Contractor at his own cost and risk.

23. The Contractor shall pay the wages to the workmen directly without the intervention of any Jamadars or Thekedars and the Contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by Jamadars from the wages of workmen.

24. The Contractor shall ensure that the payment of the minimum wages to the labourers, specified by the government from time to time, has been made in accordance with the Minimum Wages Act. **Upward revision of Minimum Wages from time to time shall be deemed to be inbuilt in the quoted rates of the Contractor.** If at any time, it is noticed or it comes to the knowledge that the payment, to the labourers employed by the Contractor, is not made in accordance with the Minimum Wages Act, NFL shall reserve the right to take remedial action to regulate the payments.

25. The Contractor shall comply with the provisions of Contract Labour (Regulation & Abolition) Act 1970 and rules framed there under & amended from time to time.

26. In case of non-compliance with any of the conditions / provisions contained in E.P.F. Act 1952 as amended from time to time, NFL reserves the right to provisionally retain 24% of the Contractor's payment towards employees’ and employer's contributions, which may be released only on verification of Challan by Engineer In-Charge for deposit of PF Contribution.

27. **Provident Fund Account Number (PF A/c. No.):** The Contractor shall mention the Account Number allotted by the Provident Fund Authorities in his Tender as per statutory requirements.
28. The Contractor shall abide by all the Acts / Labour Laws related to PF, Wages, Holidays, Leaves, and Overtime etc. The Contractor is required to comply with all statutory provisions, from time to time, during the tenure of the contract.

29. **Workmen Compensation / Insurance**

29.1 In every case in which by virtue of the provision of Section 12, sub-section I of the Workmen Compensation Act 1923 or any other law for the time being in force, NFL is obliged to pay compensation to a workman employed by the Contractor in execution of the work, NFL will recover the amount of the compensation so paid from the Contractor's bill.

29.2 The Contractor will be solely responsible for any liability to his workers in respect of any accident, injury arising out of and in the course of contractor’s employment. **To meet his aforesaid obligations under the Workmen Compensation Act, the Contractor will obtain Cover Note under Workmen Compensation Policy from Insurance Company in respect of persons employed by him for carrying out his work and obligations under the agreement.** The premium payable for the aforesaid Insurance Policy shall be borne by the Contractor. The Contractor shall ensure that the said Insurance Policy remains valid till the expiry of the contract.

29.3 **Photocopy of this Insurance Cover is required to be submitted by the Contractor to NFL immediately after the issue of L.O.I. but before the start of the work.** Payment against the work done will not be released to the Contractor until and unless photocopy of the Insurance Cover is submitted to the NFL.

30. The NFL will not be responsible for any injury sustained by the workers of the Contractor during the performance of the above contract, any damage, compensation due to any dispute between the Contractor and his workers. All liabilities arising out of any provision of Labour Acts / Enactments hereto in force shall be the responsibility of the Contractor. NFL under the Contract will recover any other expenditure, incurred by NFL to face the situation arising out of the negligence of the Contractor from his dues payable.

31. The Contractor shall indemnify and keep indemnified the NFL against all losses and claims for injuries or damages to any person or property of NFL whatsoever which may arise out of the consequence of the execution of works either negligently or otherwise and against all claims, demands, proceeding damages, cost, charges and expenses thereto whatsoever in respect of or in relation thereto.

32. The Contractor shall at all times keep the NFL indemnified against all claims, damages or compensation under the provisions of the Payment of Wages Act 1936, Minimum Wages Act 1948, Equal Remuneration Act 1976, Workman’s Compensation Act 1923, Employees Liability Act 1938, Employment of Child Labour Act 1938, Abolition of Bonded Labour Act and Contract Labour (Regulation & Abolition) Act 1970 or any other Act regulating the employment of labour by the Contractor.

33. The Contractor shall ensure that all the formalities, required to be completed under the existing laws of India for and/or in connection with engaging/employment of labourers, have been fulfilled. NFL shall be under no obligation to accept / admit any claim on this behalf.

34. **Alterations, Omissions, Additions Or Substitutions of Work:**

34.1 NFL shall have power to make any alteration in, omission from, addition to, or substitutions for original specifications and instructions which may be considered necessary, during the progress of work and the Contractor shall carry out the work in accordance with any instruction which may be given to him in writing duly signed by the Engineer In-Charge. Such alterations, omissions, additions, substitutions shall not invalidate the contract and any altered, additional or substituted work, which the Contractor may be directed to do in the manner above
specified as a part of the work, shall be carried out by the Contractor on the same conditions in all respects on which he has agreed to do the main work.

34.2 If the rates for additional, altered or substituted work are specified in the contract for the work, the Contractor is bound to carry out the additional, altered or substituted work at the same rates as per specifications in the rate contract for that work.

34.3 In the event the extra or substituted items of the work does not fall in the category as above, the cost will be calculated on the basis of actual Labour and consumable material utilized for the job. The quoted rates will be inclusive of Overheads and Profit. The Engineer In-Charge will assess the quantum of Labour and consumable material used; whose decision in this respect will be final and binding upon the Contractor. The Contractor will be required to obtain prior approval of NFL for rates payable to him for such extra items.

34.4 In case, the Contractor fails to do the extra and/or the substituted work, NFL will have the option to get the work done through another agency at the Contractor's Risk and Cost, as per Clause No. 17 of General Terms & Conditions.

35. Preservation of Free Issue Material: All materials issued to the Contractor by the Owner shall be preserved against deterioration and storage while under Contractor's custody. Any damage / losses suffered on account of non-compliance with the requirement stipulated herein shall be considered as losses suffered due to wilful negligence on the part of the Contractor and he shall be liable to compensate NFL for the losses suffered at penal rates to be determined by the Engineer In-Charge with reference to the rates charged for the purpose of recovery and shall be final and binding on the Contractor.

36. Handling during Execution: The parts supplied for installation / scaffolding material for execution of job shall be handled with utmost care. Any damage or loss caused to items during shifting / execution of this contract by the Tenderer will be made good by the Tenderer at his own cost and risk.

37. Safety Regulations: The Contractor shall observe and abide by all the Fire and Safety Regulations of the NFL. Before starting maintenance work, the Contractor shall consult NFL’s Safety Officer or the Engineer In-Charge, if the Safety Engineer is not available, and familiarize himself with such regulations, copies of which will be furnished to him by NFL, when requested. He shall be responsible for and must make good, to the satisfaction of the NFL, any loss or damage due to fire to any portion of the work to be done under this agreement or to any of the NFL's existing property.

All the accidents to Contractor's staff will be reported to the Safety Officer promptly. This will, however, not relieve the Contractor of any other statutory obligations. The Contractor shall not undertake any hot job without Safety Work Permit. He has to maintain First Aid Box in his office. Also necessary Safety Equipment like Helmets, Hand Gloves, Face Shields, Safety Belts etc. are to be provided to his workmen by the Contractor. However, Special Safety Equipment (if any) required as per requirement of the job shall be provided free of cost by NFL.

38. Force Majeure: The terms and conditions mutually agreed upon with respect to this agreement shall be subject to Force Majeure. Neither the Contractor nor NFL shall be considered in default in the performance of their obligations contained therein, if such performance is prevented or delayed or restricted or interfered with by reason of War, Hostilities, Revolution, Civil Commotion, Strike, Epidemic, Accident, Fire, Cyclone, Wind, Flood, Earthquake, Regulation or Ordinance or Requirement of any Government or any Sub-Division thereof, or Authority or Representative of any such Government and/or due to Technical Snag/Reasons, or any other Act whatsoever, whether similar or dissimilar to those enumerated, beyond reasonable control of the parties hereto, or because of any Act of God. The party so affected, upon giving prompt notice to the other
party, shall be excused from such performance to the extent of such prevention, delay, restriction or interference for the period it persists, provided that the party so affected shall use its best efforts to avoid or remove such causes of non-performance, if possible, and shall continue performance hereunder with the utmost dispatch whenever such causes are removed. Should one or both parties be prevented from fulfilling their contractual obligations by a state of **Force-Majeure lasting continuously for a period of three months**, the two parties to the contract shall meet and decide about the future course of action for implementation of the contract.

39. **Conciliation & Arbitration:** “Except where otherwise provided in the contract all matters, question or differences whatsoever, which shall at any time arise between the parties hereto, touching the construction, meaning, operation or effect of the contract or out of matter relating to the contract or the breach thereof or the respective rights or liabilities of the parties during or after completion of the works or whether before or after termination, shall after written notice by either by either party to the contract be referred to the arbitration of the Unit Head / ED / Functional Director / Chairman & Managing Director, National Fertilizers Ltd. or his / her nominee.

The arbitration & Conciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under shall govern the Arbitration proceedings.

The contractor herby agrees that he shall have no objection if the arbitrator so appointed is an employee of NFL and he had to deal with the matter to which contract relates and that in the course of his duties as such he has expressed his views on all or any of the matter in dispute of differences.


41. **Time Limit for Any Claim:** In case the Contractor fails to claim compensation, from NFL on account of any claim under the contract, in writing to the Engineer In-Charge, within a period of one month of cause of action of such a claim arise, the Contractor shall be deemed to have waived of his right to claim the same.

42. **Medical Check up of Contract Worker:** Contractor shall produce Medical Fitness Certificate for each worker to be deployed at Vijaipur Site from a Registered Medical Practitioner.

43. **Jurisdiction:** Not withstanding any other court or courts having jurisdiction to try any civil suit arising out of this contract, it shall be only the court of competent jurisdiction at Guna alone (where the contract shall be deemed to have been entered into) to try such suits to the exclusion of all other courts of the country and all causes of action in relation to the contract will therefore be deemed to have arisen within the **Jurisdiction of the Courts at Guna (Madhya Pradesh) only.**

44. **Agreement:** The Contractor’s responsibility under this contract will commence from the date of issue of the Letter of Intent. The Tender Documents, Other Documents exchanged between the Tenderer and NFL, the Letter of Acceptance and Work Order shall constitute the Contract. The successful Tenderer shall have to **execute an Agreement** with National Fertilizers Limited, on a non-judicial stamp paper of Rs. 500.00 at Vijaipur, within 10 (Ten) days of receipt of the Work Order or before start of job whichever is earlier. The cost of stamp paper shall be borne by the Contractor. The Agreement to be executed will be in the Agreement Form to be specified by National Fertilizers Limited.
VIII. SCHEDULE OF RATES FOR JOB-1 and JOB-2

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Description</th>
<th>Qty</th>
<th>Amount (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lump sump Charges including mobilization for JOB-1 of Major Overhaul of Gas Turbine of GTG-1 and analysis and rectification of high vibrations problem in CPP plant at NFL Vijaipur as per scope of work</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Lump sump Charges including mobilization for JOB-2 of Major Overhaul of Gas Turbine of GTG-3 in CPP plant at NFL Vijaipur as per scope of work</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total:</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. The Tenderer shall **quote Single Rate against each item** and not the multiple rates in the Schedule of Rates. **Any Tender with the multiple rates quoted will be summarily rejected.**
2. **The Rates quoted should be inclusive of all Taxes, Duties, Royalties and other Statutory Levies to be payable but excluding Service Tax.** Unless specified to the contrary in the bid, all present taxes and statutory levies shall be borne and paid for by the bidder. Payment of the taxes and other statutory levies shall be the responsibility of the bidder and shall not be payable by NFL.
3. **Service Tax:** if applicable shall be reimburse by NFL as per GOI notification 30/2012-Service Tax effective from 01.07.2012 on submission of the documentary evidence of the payment thereof [Service tax challan]. The tenderer must mention Service Tax Registration/Service Tax Code and the Accounting code in the invoice/receipts
4. **TDS** shall be applicable as per Income Tax Rules.
5. The Bids shall be evaluated on the individual cost of JOB-1 and JOB-2 and work can be split as per Clause No. VII.6 of General Terms & condition as Job-1 and Job-2 & 3 shall be carried out at different period of time.
6. The Tenderer would be fully responsible for the quoted Rate & Amount and would deposit Excise & Service Tax.

(SIGNATURE OF TENDERER)

Name

Date

Place
Annexure-I

Pre-qualification Criteria for Major Overhauling of Gas Turbines

1. Technical criteria

1.1. Bidders must have executed on turnkey basis, at least one similar Major Overhauling of Gas Turbines during the last 7 years i.e. till 31st March 2014 with satisfactory performance in fertilizer, power, petrochemical, oil & gas industries by own or through their Indian representative/business associates/sub-contractors with total supervision & performance guarantee borne by bidder only.

Similar Major Overhauling means, Major overhauling of Gas turbines of capacity not less than of 17.225 MW at ISO conditions of GE-designed Gas Turbines of Frame not less than Frame-V, involving activities as per scope of work of the subject NIT

1.2. The bidder should have experience/capability to diagnose/analysis and rectification of trouble shooting such as high vibrations due to thermal bowing of rotor, bearings, alignment or any other reasons. The bidder must have necessary equipments/instruments and software for analyzing the problem at their own or through some reputed expert agency in this field.

1.3. The bidder should be able to mobilize lead engineers having a training / work experience with GE and working for last 2 years with the bidder or the OEM of the Gas Turbines installed at NFL Vijaipur.

1.4. As a documentary proof, the bidders shall submit self-attested copies of following documents with the technical un-priced bid:

   a) Purchase/ Work Orders in support of para 1.1 above with full technical details, completion period and Certificates from customer regarding satisfactory performance indicating the period of completion.

   b) Documents in support of para 1.2, above indicating details of experience/capability to diagnose/analysis and rectification of trouble shooting related to high vibrations.

   c) Documents in support of para 1.3 above such as CV of the lead engineers alongwith work experience certificate & certificate of training programme by GE or the OEM of the Gas Turbines installed at NFL Vijaipur.

2. Financial Criteria:

2.1. Average Annual financial turnover of the bidder during the last 3 years ending 31st March of the previous financial year 2012-13, should be at least Rs. 14.10 Lakhs. The bidders shall submit the copies of Audited balance sheet for the last three successive years prior to bid submission date.

2.2. Experience of having successfully completed similar works during last 7 years i.e. till 31st March 2014 should be either of the following: -

   a. Three similar completed works costing not less than the amount equal to Rs. 18.80 lacs. Or

   b. Two similar completed works costing not less than the amount equal to Rs. 23.50 lacs. Or

   c. One similar completed work costing not less than the amount equal to 37.60 lacs.
## FORAMT FOR PRE-QUALIFICATION CRITERIA

(To be filled and submitted along with the PQ documents duly signed & stamped)

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Description</th>
<th>Requirement</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>1</td>
<td>Reference of minimum one satisfactorily completed similar Major Overhauling of Gas Turbine during the last 7 years as per clause 1.1 of PQ criteria</td>
<td>Submit the copies of PO/WO and their completion certificate issued by customer as per clause no 1.4.(a) of PQ</td>
<td>Yes/No</td>
</tr>
<tr>
<td>2</td>
<td>Reference of experience/capability to diagnose/analysis and rectification of trouble shooting as per clause 1.2 of PQ criteria</td>
<td>Submit documents in support of indicating details of experience/capability as per clause no 1.4.(b) of PQ</td>
<td>Yes/No</td>
</tr>
<tr>
<td>3</td>
<td>Capability to mobilize lead engineers having a training / work experience with GE and working for last 2 years with them as per clause 1.3 of PQ</td>
<td>Submit documents such as CV of the lead engineers a/w work experience certificate &amp; certificate of training programme as per clause no 1.4.(c) of PQ</td>
<td>Yes/No</td>
</tr>
<tr>
<td>4</td>
<td>Last three years Average yearly financial turnover (not less than Rs. 14.10 lacs) as per clause 2.1 of PQ</td>
<td>Submit the copies of Audited balance sheet for the last three successive years prior to bid submission date.</td>
<td>Yes/No</td>
</tr>
<tr>
<td>5</td>
<td>The bidders should have sufficient experience of executing similar work i.e., Single work costing not less than Rs.37.60 lacs or Two works costing not less than Rs. 23.50 lacs each or Three works costing not less than Rs. 18.80 lacs each</td>
<td>Submit the copies of PO/WO and their completion certificate issued by customer</td>
<td>Yes/No</td>
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### INFORMATION REGARDING TENDERER

**PERFORMA NO. - 1**

#### A) In case of individual

i) Name of Business

ii) Whether his Business is registered

iii) Date of commencement of business

iv) Whether he pays Income-Tax over Rs. 10,000/- per year

#### B) In case of Partnership

i) Name of Partnership

ii) Whether the Partnership is registered

iii) Date of establishment of firm

iv) If each of the partners of the firm pays Income-Tax over Rs. 10,000/- a year and if not which of them pays the same

#### C) In case of Limited Liability Company or Company Limited by Guarantee

i) Amount of paid up capital

ii) Name of Directors

iii) Date of Registration of Company

iv) Copies of the last two years’ Balance Sheets of the Company

#### D) Income Tax

i) Income Tax Clearance Certificate for previous years.

---

(SIGNATURE OF TENDERER)

Name ______________________
Dated ______________________
Place ______________________
DETAIL OF EXPERIENCE

PERFORMA NO. - 2

Tenderer shall give information of similar works done during the past five years strictly as per Performa given below:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Full particulars of similar work carried out by Tenderer</th>
<th>Value of Contract</th>
<th>Contracted Completion time</th>
<th>Actual completion time</th>
<th>Year of completion</th>
<th>Name &amp; Postal Address of Client</th>
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Certified that the above information is correct.

(SIGNATURE OF TENDERER)

Name _________________________
Date _______________________
Place _______________________
PRESENT COMMITMENTS

Tenderer shall furnish the details of their present commitments strictly as per this Performa.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of work</th>
<th>Name &amp; address of Client with the name of person under whom the work is being executed</th>
<th>Contract Value</th>
<th>Brief description of work</th>
<th>Contracted date of completion with the date of start of work</th>
<th>% age completed as on date</th>
<th>Expected date of completion of balance work with approx. value of such balance work</th>
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Certified that the above information is correct.

(SIGNATURE OF TENDERER)

Name
Date
Place
INFORMATION REGARDING EQUIPMENT WHICH THE TENDERER PROPOSES TO USE FOR THIS WORK

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Description</th>
<th>Quantity</th>
<th>Make</th>
<th>Capacity</th>
<th>Owner</th>
<th>Approx., date when it will be deployed at site</th>
<th>Period of attention at site</th>
</tr>
</thead>
</table>

Certified that the above information is correct.

(SIGNATURE OF TENDERER)

Name __________________________
Date ______________
Place ______________