

TENDER DOCUMENTS
FOR

‘Execution of major overhauling job of WK drive Turbine
of Syn Gas Compressor of Amm-III plant on turnkey basis at
BVFCL Namrup’.

NIT No.: N-III/Mech-5/Cont-1048/2731 DTD- 18/05/2018

BVFCL, NAMRUP



BRAHMAPUTRA VALLEY FERTILIZER CORPORATION LIMITED
AMMONIA-III
MECHANICAL DEPARTMENT

NAME OF WORK:

Major overhauling job of WK drive Turbine of Syn Gas Compressor of Amm-III plant on turnkey basis at BVFCL Namrup.

A. SPECIFICATION:**WK drive Turbine of Syn Gas Compressor:**

Make	: M/s BHEL
Type	: WK 32/28-3
Rated speed	: 14250 rpm
Output at Coupling	: 15180 KW

NOTE:

The diagram of turbine is also uploaded for reference only.

B. SCOPE OF WORK:

If specifically not mentioned herein after or not mentioned anywhere else, the scope of work shall include but not limited to the following:-

- 1) Disconnection of associated oil lines.
- 2) EMG Rear bearing top casing along with the manual barring device parting plane fasteners are to be dismantled.
- 3) WK turbine both front and rear side bearing housing to be dismantled and removed.
- 4) BCL 407 front side bearing housing to be dismantled and removed
- 5) EMG Rear, WK F/R and BCL 407 front coupling guards dismantling and removal.
- 6) EMG to WK turbine and WK turbine to BCL 407 coupling dismantling.
- 7) WK turbine both front and rear side journal bearing and thrust bearing to be dismantled and removed.
- 8) WK turbine steam line flanges fasteners to be dismantled.
- 9) WK turbine top casing parting plane fasteners to be dismantled.
- 10) WK turbine Front and rear steam glands to be dismantled.
- 11) WK existing rotor assembly along with all the existing internals sealing fins radial clearances are to be checked and recorded.
- 12) WK rotor assembly is to be removed from position and the rotor trueness is to be checked properly along with replacement of rotor if required.
- 13) Checking of all seals & labyrinths and replacement wherever required.
- 14) Removal and fixing of sealing fins as per requirement for WK turbine all Front/Rear steam glands/ Internals and re-finishing to be done maintaining proper radial clearances.
- 15) All dismantled bearing casing, coupling guards, WK turbine top & bottom casing are to be cleaned with proper steam and air flushing. Coupling assembly to be checked on both sides.

WK turbine box up jobs:

- 16) Inspection of journal and thrust bearings & labyrinth seals by DPT of WK turbine.
- 17) WK front and rear end Journal bearing/ Thrust bearing replacement with new ones if required and to be boxed up in position maintaining proper clearances.
- 18) Positioning and centering of rotor.
- 19) WK front and rear end re-finned steam glands to be boxed up.
- 20) Rotor free float to be checked and recorded with all the internals installed and without thrust bearing.
- 21) Total thrust bearing clearances and journal bearing radial clearances to be checked and recorded.
- 22) WK top casing is to be boxed up into position along with proper tightening the parting plane fasteners. After tightening the parting plane fasteners total rotor free float without the thrust bearing and the thrust bearing float with thrust bearing to be checked and recorded.
- 23) WK turbine both end bearing casing are to be boxed up into position along with both end oil gland seal maintaining proper clearances.
- 24) WK front and rear end coupling hubs of the spare rotor assembly are to be dismantled and replaced with the coupling hubs of existing rotor.
- 25) Coupling assembly between EMG to WK turbine and WK turbine to BCL 407 to be boxed up.

- 26) Boxing up of turbine casing, coupling guards into position with the rotor axial absolute zero setting.
- 27) WK turbine steam inlet line flanges to be boxed up in position.
- 28) Complete Alignment checking and rectification between EMG to WK turbine and WK turbine to BCL 407.
- 29) Re connection of lube oil pipe lines and instrumentation connections/ lines.
- 30) Commissioning of the turbine as per standard engineering practices.
- 31) All best engineering practices & procedures as per OEM standard to be followed and safety gadgets to be strictly followed while working.
- 32) Carrying /cleaning of site debris/waste to dumping yard after finishing of job.
- 33) Returning of unused supplied material(s) to the Engineer-in-charge.
- 34) Job shall be executed as instructed by Engineer-in-charge.

C. SPECIAL TERMS & CONDITIONS:

1) PARTY'S SCOPE: -

- a. Mobilization and demobilization of required manpower (including supervisory staff, technicians), tools & tackles (including pulling & lifting machines, electric hand tools, precision measuring tools etc.) and other equipments.
- b. All the tools and tackles below 36 mm like ring & open end spanners, hammer, screw drivers, whatsoever required (if otherwise not mentioned specifically) to meet the entire scope of work shall be in the scope of contractor **including Precision Measuring tools like dial gauge, vernier calipers, micrometer, filler gauge etc.**
- c. Arrangement of all consumables such as emery paper, markin cloth.
- d. DP test, if and when required for entire scope of work.
- e. Boarding/ lodging/ Fooding/ Insurance of their personnel.
- f. Arrangement of all necessary safety gadgets
- g. All other required items to complete the job.
- h. Arrangement of to and fro travelling of the personnel of the party, local conveyance and all the related cost to be borne by the party.
- i. Collection, loading and unloading of spares which will be required for the overhauling of the machine, from BVFCL stores to site.

2) BVFCL SCOPE: -

- a. All required spares including gland with fins, labyrinth seals, internals etc, tools and tackles above 36 mm and special tools for execution of the work.
- b. Water, air and electricity, as required for and during execution of work.
- c. Required quantity of lubricants.
- d. Work fronts will be adequately cleared for expeditious execution of work.
- e. Workshop facility, to the extent possible.
- f. Material handling equipments like mobile crane, forklift etc. with operator.
- g. Wooden sleepers, packers and planks.
- h. Jointing compounds, gaskets and sealants.
- i. Site Stores/ Site office.
- j. Accommodation facility will be extended to the party on chargeable basis subject to availability.
- k. Free medical facility to be offered to your workmen in case of accidents / injuries while at work shall be limited to provision of first aid only.

3) MOBILIZATION/COMPLETION PERIOD

- a. Mobilization of manpower shall be done within 72 hours of our intimation by Fax / Telephone / E-mail. However, the mobilization should be done as quickly as possible. The site mobilization shall be completed within agreed Time Period.
- b. **The job will be completed within 10(Ten) days excluding journey period.**

4) The price preference to MSE's shall not be applicable in this tender.

5) As the job is a critical nature of job, PQC relaxation for startup & MSE bidders shall not be applicable.

D. GENERAL TERMS & CONDITIONS:

1. Interested Bidder, after studying all the tender documents carefully, may obtain necessary clarifications, if any, in writing before tendering. The Contractor should acquaint himself with the site conditions prevailing at the place of work. Submission of tender implies that the Bidder has obtained all the clarifications required and that he shall be deemed to have apprised himself of all the ground conditions at site including weather conditions. No claim on ground of want of knowledge in this respect will be entertained. No claim for any extra charges consequent upon any misunderstanding or otherwise will be entertained.
2. The following tenders will be liable to be summarily rejected:
 - 2.1 Tenders submitted by Bidder(s) who resort to canvassing
 - 2.2 Tenders which do not fulfill any of the conditions laid down in the Tender Documents or are incomplete in any respect.
 - 2.3 Tenders not accompanied by the required details / Earnest Money Deposit
 - 2.4 Tenders received late / delayed.
3. If the Bidder has relations, whether by blood or otherwise, with any of the employees of BVFCL he must disclose the relations in the Form of Declaration attached failing which BVFCL shall reserve the right to reject the Tender or rescind the Contract.
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 jobs working round the clock as per BVFCL's requirement to be decided by the Engineer-In-Charge and the Contractor should take this aspect into consideration while formulating his rates to be quoted.
5. **Validity of Contract:**
 - 5.1 Validity of the contract shall be for a period of 12 months reckoned from the date of its award. The job can, therefore, be got done any time during the tenure of the contract.
6. **Escalation in Rates:** The rates quoted will remain firm till entire period of the contract and will not be subjected to escalation irrespective of any increase whatsoever in labour or material cost etc.
7. **Earnest Money Deposit:** The Bidder should make a deposit of Rs. 24,410.00 (Rupees Twenty Four thousand four hundred ten) only as Earnest Money in the form of an A/c Payee Demand Draft, drawn on State Bank of India in favor of "Brahmaputra Valley Fertilizer Corporation Ltd., Namrup" payable at Namrup Branch (Branch Code: 0223).
Bank guarantee as E.M.D in place of Demand draft shall not be entertained.
- 7.1 **Exemption from paying tender fees and Earnest Money Deposit:**
With reference to the Order of the Ministry of MSME, under the Public Procurement Policy March 2012, Micro and Small Enterprises (MSE) shall be entitled for EMD exemption subject to conditions as under:
MSE bidders must submit valid registration certificates from any of the following (or any other body specified by the Ministry of MSME) for exemption of EMD as applicable:
 - National Small Industries Corporation (NSIC)
 - District Industries Centres (DIC)
 - Coir Board
 - Khadi and Village Industries Commission(KVIC)
 - Khadi and Village Industries Board(KVIB)
 - Directorate of Handicrafts and Handloom
 - Udyog Aadhar Memorandum.
8. **Security Deposit-Cum /Workmanship Guarantee:** For due and faithful execution and performance of the contract the contractor shall provide the Owner with financial guarantee in the form of a Bank Guarantee, issued by any Nationalized Bank, for sum equivalent to 10% of the total contract value within a period of 30 days of placement of work order. The Bank Guarantee so executed shall be valid till the expiry of workmanship guarantee period of (06) six months. **No interest shall be paid on E.M.D. and S.D.**

9. If the Contractor fails to fulfill his obligations under the contract BVFCL 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 contract.

10. Termination of Contract:

If the Contractor becomes 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's notice in writing, if, in its opinion, the work under the contract is not being executed to its satisfaction:

or

- 10.1 If, 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 by the Engineer-In-Charge,

or

- 10.1. 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 is given to him by the Engineer-In-Charge

or

- 10.2. 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

- 10.3. If the Contractor abandons the contract

or

- 10.4. If the Contractor becomes bankrupt / insolvent.

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

11. TERMS OF PAYMENT:

- 11.1 100% of value of the W.O. after successful completion of the job and raising of invoice by the party in triplicate subject to recovery if any. **However, 100% payment is subject to fulfillment of Security Deposit-Cum- /Workmanship Guarantee as in noting at clause no 8.00 of General Terms & Conditions.** In case the party does not submit Security Deposit-Cum-Performance/Workmanship Guarantee as stated above, 90% value of the completed work will be released. The balance 10% shall be retained as Security Deposit which will be released after successful completion of the guarantee period of (06) Six months.

- 11.2 GST, if and as applicable, shall be paid at usual and admissible rate on production of copy of valid GST Registration Certificate issued by appropriate Authority.

11.3 LIQUIDATED DAMAGE:

In the event that the work is not completed according to the time schedule, the Contractor shall have to pay **Penalty to BVFCL @ of 0.5 % of the total value of work for delay of every week or part thereof subject to a ceiling of 10 % of the total value of the work.**

12. **Tax Deduction at Source:** Statutory deduction on account of Income Tax / Works Tax & other Taxes on Works Contracts, if and as admissible, shall be made from the Contractor's bills at the prevailing rates, as per Income Tax Laws / Commercial Tax Laws in force in the state of Assam, at the time of release of payment to the Contractor.

13. **Engineer-In-Charge:** The Engineer In-Charge shall have general supervision and direction of the work. He shall have the authority to stop the work whenever such a stoppage may be necessary to ensure 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 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 Brahmaputra Valley Fertilizer Corporation Limited shall be final as regards all matters relating to this Tender including those for determining the category of work with reference to material of an item not mentioned in the Scope of Work.

14. **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.
15. **Safety Regulations:** The Contractor shall strictly follow and abide by all the Fire and Safety Regulations of BVFCL. Before starting maintenance work the Contractor shall consult BVFCL'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 BVFCL on request. He shall be responsible for, and must rectify/make good, to the satisfaction of the BVFCL, any loss or damage, due to fire, caused to any portion of the work to be done under the agreement or to any of the BVFCL's existing property.
16. **Force Majeure:** The terms and conditions mutually agreed upon with respect to this agreement shall be subject to Force Majeure. Neither the Contractor nor BVFCL shall be considered to be in default in the performance of their obligations contained therein, if such performance is prevented or delayed or restricted or interfered with by reasons 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.
17. **Conciliation & Arbitration:**
 - 17.1 Except otherwise provided in this contract all matters, questions, disputes, differences whatsoever which shall at any time arise between the parties hereto touching the construction, meaning or operation or effect of the contract or out of matters related to the contract or breach thereof, or the respective rights or liabilities of the parties, whether during or after completion of the work or whether before or after termination shall be referred to arbitration in accordance with the ICADR Arbitration Rules, 1996. Under such case, authority to appoint Arbitrator(s) shall be the 'International Centre for Alternative Dispute Resolution'.
 - 17.2 The Arbitration proceedings shall be governed by the ICADR Arbitration Rules, 1996.
 - 17.3 Both the parties shall continue to fulfill their respective obligations under the contract during the Arbitration proceedings.
18. **Jurisdiction:** Notwithstanding 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 Dibrugarh 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 Court at Dibrugarh (Assam) only.
19. **BVFCL is committed to a corruption free environment." All the works contract, services and commitments of BVFCL will be honored without the citizen having to pay any bribe". In case any person demands any bribe, it is the duty of responsible citizen to inform the matter to Vigilance Office, BVFCL, Namrup, Assam. (Email:vigilance@bvfc.co.in).**

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(SPECIMEN COPY)

Ref: N-III/MECH-5/Cont-1048/

PROFORMA-I

INFORMATION REGARDING TENDERER

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 BIDDER WITH SEAL)

Name : -----
Dated : -----
Place : -----

(SPECIMEN COPY)

Ref: N-III/MECH-5/Cont-1048/

PROFORMA NO. - 2

DETAILS OF EXPERIENCE

Bidder shall give information of similar works done during the **past seven years** strictly as per proforma given below:

Sl. No	Full particulars of similar work carried out by Bidder	Value of Contract	Contract Completion time	Actual completion time	Year of completion	Name & Postal Address of Client

Certified that the above information is correct.

(SIGNATURE OF BIDDER WITH SEAL)

Name :

Dated :

Place :

(SPECIMEN COPY)

Ref: N-III/MECH-5/Cont-1048/

PROFORMA NO. - 3

PRESENT COMMITMENTS

Bidder shall furnish the details of their present commitments strictly as per this Proforma.

Sl. No.	Name of work	Name & address of Client	Contract Value	Brief description of work	Date of completion	% age completed	Expected date of completion of balance work

Certified that the above information is correct.

((SIGNATURE OF BIDDER WITH SEAL))

Name :

Dated :

Place :

(SPECIMEN COPY)

Ref: N-III/MECH-5/Cont-1048/

PROFORMA NO. - 4

INFORMATION REGARDING MANPOWER
WHICH THE BIDDER PROPOSES TO USE FOR THIS WORK

Sl. No	Name	Designation	Qualification	Yrs of Experience of similar job
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Certified that the above information is correct.

(SIGNATURE OF BIDDER WITH SEAL)

Name :

Dated :

Place :

(SPECIMEN COPY)

PROFORMA NO. - 5

Ref: N-III/MECH-5/Cont-1048/

PROFORMA: SCHEDULE OF WORK, QUANTITY & RATE(S)

Job Name: 'Execution of major overhauling job of WK drive Turbine of Syn Gas Compressor of Amm-III plant on turnkey basis at BVFCL Namrup.

SI No	Description	Qty	Rate (₹)	Amount (₹)
1.	Execution of major overhauling job of WK drive Turbine of Syn Gas Compressor of Amm-III plant on turnkey basis at BVFCL Namrup.	1 (one) lot	LS	
G.S.T @ 18%				
Sub Total				
TOTAL AMOUNT				

Note:

- The Rates quoted should be inclusive of all Duties, Royalties, P&F charges and other Statutory Levies to be payable except GST.** 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 BVFCL.
- TDS** shall be applicable as per Income Tax Rules.
- The Bid shall be evaluated on the overall lowest cost only.**

Signature of the Bidder: _____ Date _____

Party's name: _____

Address & SEAL:

Annexure-I

ELIGIBILITY CRITERIA FOR THE BIDDER

1. The bidder should have experience of similar nature work carried out i.e refurbishment/reconditioning of the rotor of high speed (more than 7500 RPM) steam turbines during the last seven Years in Fertilizer/Refinery & petrochemicals in reputed CPSU/Govt./Semi-Government/ Private sector organization-:
 - a. The bidder shall submit detail of work order(s) for execution of overhauling of high speed steam turbines of **more than 7500 RPM**.
 - b. The bidder should have infrastructure and experience of supply, machining, refining and fixing of fins of steam glands, Labyrinth seals, Internals of Steam turbines shall shall furnish documentary evidence for the same.
2. The bidder shall furnish documentary evidence in form of Work Order / Contract copies along with satisfactory completion certificates in support of their claim of doing such work by them and successfully completed during the last 7 (Seven) years ending last day of month previous to the one in which applications are invited should be either of the following –
 - a. Three similar completed works costing not less than Rs. 4,88,160.00 each OR
 - b. Two similar completed works costing not less than Rs. 6,10,200.00 each OR
 - c. One similar completed work costing not less than Rs. 9,76,320.00
3. Average annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.

DECLARATION FORM

Ref. No: N-III/MECH-5/Cont-1048/

Date:

To

Chief Engineer (Mechanical), Amm-III & CPP
BVFCL, Namrup

Sub.: 'Execution of major overhauling job of WK drive Turbine of Syn Gas Compressor of Amm-III plant on turnkey basis at BVFCL Namrup'.

Dear Sir,

I/ We have read the conditions of tender attached hereto and agree to abide by such conditions. I/We offer to do the job as per attached Schedule of Rates and in accordance with the specifications, standards and instructions in writing of the Engineer-in-charge of M/s. BVFCL and hereby bind myself/ ourselves to complete the work schedules and progress of work.

I/We hereby bind myself/ourselves to complete the work schedule and progress of work. I / We further agree to abide by the conditions of contract and to carry out all works within the specified time in accordance with applications, workmanship and instructions referred to in the **Notice Inviting Tender**.

In case of acceptance of the tender by Brahmaputra Valley Fertilizer Corporation Limited, Namrup, I/ we bind myself/ ourselves to execute the contract as per the conditions mentioned in the tender documents, failing which we shall have no objection to the forfeiture of the Earnest Money lodged with BVFCL, Namrup.

Thanking you.

Yours faithfully,

For M/s. :
(Signature of Contractor/ Bidder with SEAL)

Address :
.....
.....

DECLARATION FORM

THE FOLLOWING DECLARATION TO BE SIGNED BY CONTRACTOR

Sl. No	DESCRIPTION	YES/ NO. (If Yes, give the following details)		
		Name and Designation of the Employee	Place of posting	Relation with the Employee
1	If a Bidder has relations whether by blood or otherwise with any of employees of BVFCL (Owner), the Bidder must disclose the relation at the time of submission of Tender, failing which BVFCL shall reserve the right to reject the Tender or rescind the Contract.			
2	P.F. Registration No. of the Contractor to be intimated along with Documentary proof thereof		P.F. Reg. No.	
3	PAN No. of the Contractor to be intimated along with Documentary Proof thereof		PAN No.	
4	VAT Registration No. of the Contractor to be intimated along with Documentary Proof thereof		VAT Reg. No.	
5	GST Registration No. of the Contractor to be intimated along with Documentary Proof thereof		G.S.T. Reg. No.	
6	If the party is registered as Micro/Small/Medium Enterprises as per MSMED Act,2006, the same may be confirmed by the party and submit a photocopy (Self certified) of the registration certificate in support thereof. Otherwise it will be construed that the party is not registered as per MSMED Act, 2006.			
7	The bidder shall submit the name and address of the firm/ company along with its constitution giving status of the same such as sole proprietorship / partnership or limited/private firm etc. Along with its copies duly attested by Notary Public as evidence.			

(Signature of Contractor/ Bidder with SEAL)

Address : -----

Place :

Date :