

REQUEST FOR QUOTATION

TO,
GAIL WEBSITE VENDOR
India
Vendor Code - 101019938

RFQ No.: GAIL/VIZ/022956/3300030971/VIZAG/
Dated : 02.06.2009

Kind Attn : Mr/Ms

Dear Sir/Madam,
GAIL (India) Ltd. invites you to submit your offer in sealed envelope superscribing RFQ No. & Due date for the following services in complete accordance with enquiry documents/attachments:

Name of work	: Vibration monitoring of rotating equipment installed in all units of VSPL- LPG pipe line project.(Vizag, Vijayawada, Cherlapally)
Bid Due Date & Time	: 26.06.2009 at 14:00 Hrs
Opening of Bids on	: 26.06.2009 at 15:00 Hrs (In case of Two Bid system tender,unpriced bids shall be opened.)
Validity of Offer Upto	: 25.10.2009
Date of Pre Bid Conference	: at _____Hrs

Earnest Money:

EMD for the tender shall be Rs.22,000/-. EMD to be submitted as per the acceptable format to GAIL. Bids without EMD will be summarily rejected.

Instruction to Bidders :

- i) Due date and time for submission of bids : 26th June, 2009. (14:00 hrs IST)
- ii) Date and time for opening of Techno Commercial Bids : 26th June, 2009. (15:00 hrs IST)
- iii) Time and date of opening of "PRICE BIDS" will be intimated to those qualifying in the Techno-Commercial bids, in due course of time.
- iv) Scope of work : As detailed in SCC & SOR.
- v) Earnest Money Deposit : Rs. 22,000/- (Rupees Twenty Two Thousand Only)

M/s. GAIL (India) Limited, Opp. Ayyappa Swamy Temple, Sheela Nagar, VISAKHAPATNAM (A.P.) hereinafter called GAIL/Owner, invites you to submit your bids for the captioned work in complete accordance with enquiry documents/attachments.

Bids are to be submitted in sealed envelope, superscribed with the above Tender No. & Due date, description of work.

Part - I - Techno Commercial Bid

Your bid should contain all technical & commercial details and the Earnest Money Deposit (EMD) as stated above. The EMD can be submitted by DD favouring GAIL (India) Ltd, Visakhapatnam or Banker's Cheque payable at State Bank of India, BHPV, Branch Code: 1675 or by way of Bank Guarantee in the enclosed format. This should invariably contain the documents required for qualification of BEC.

Part - II - Price Bid

Price bid containing the priced Schedule of Rates enclosed in the tender.

Both the envelopes (Part - I & Part - II) are to be sealed in an envelope, super scribed with tender no. due date & description of work.

GAIL HAS TO FINALIZE ITS PURCHASE WITHIN A LIMITED TIME SCHEDULE. THEREFORE, IT MAY NOT BE FEASIBLE IN ALL CASES FOR GAIL TO SEEK CLARIFICATIONS IN RESPECT OF INCOMPLETE OFFERS. THE DECISION WILL BE MADE BASED ON AVAILABLE DOCUMENTS. PROSPECTIVE BIDDERS ARE ADVISED TO ENSURE THAT THEIR BIDS ARE COMPLETE IN ALL RESPECTS AND CONFIRM TO OUR TERMS AND CONDITIONS. BIDS NOT COMPLYING WITH GAIL'S REQUIREMENTS MAY BE REJECTED WITHOUT SEEKING ANY CLARIFICATIONS.

Bids complete in all respects should reach office of Sr. Manager C&P), GAIL (India) Ltd., Opp: Ayyappa Swamy Temple, Sheela Nagar, Visakhapatnam - 530012, AP, INDIA on or before the due date/time. Bids received after the due date and time are liable to be rejected, If not bidding, please return the enquiry document along with the regret letter within the due date.

Bids without EMD shall be summarily rejected.

Bids should be valid for 120 days from the date of opening tender. Bids through Telex/Fax/E-mail/Telegram are not acceptable.

This Request For Quotation (RFQ) is an integral and inseparable part of the enclosed bid documents.

Bidders are advised to quote strictly as per the terms and conditions of the tender documents and not to stipulate any deviations/exceptions. Once quoted, the bidder shall not make any subsequent price change whether resulting of arising out of any technical/commercial clarifications sought regarding the bid, even if any deviation of exception may be specifically stated in the bid. Such price changes shall render the offer liable for rejection.

All bidders should submit PF registration certificate duly attested by Gazetted Officer along with Bid document, failing which their Bid shall not be considered for further evaluation.

You are requested to depute your representative with proper authorization for attending the bid opening on the scheduled date of opening.

GAIL reserves the right to accept or reject any or all tenders received at its absolute discretion without assigning any reason whatsoever.

Fall clause as mentioned in GCC shall not be a part of this Tender.

The offer will be evaluated on the basis of Total Value of SOR with Service Tax.

The bidder is required to quote the applicable rate of service tax & cess thereon, separately in the SOR.

BID REJECTION CRITERIA:

In the event of Bidders taking deviation in following criteria their Bids will be treated as irresponsive and may be rejected.

- a) Firm price.
- b) EMD / Bid bond.
- c) Scope of work.
- d) Specifications.
- e) Price Schedule.
- f) Delivery / Completion Schedule.
- g) Period of validity of Bid.
- h) Price reduction schedule.

- i)Performance Bank Guarantee / Security Deposit.
- j)Guarantee.
- k)Arbitration and resolution of dispute.
- L)Force Majure.
- m)EPF registration.
- n)Applicable laws.

Delivery/Completion Scheduele :

1. The initial contract period of this contract for completion of all jobs listed in the schedule of rates shall be 24 Months from the date of starting the work.
2. The Defect Laibility of contractor will be uptill 3 months from completion of work and the Contract Performance Guarantee shall be released after expiry of Defect Laibility Period as per clause 11.0 of SCC.

Mobilisation Period:

Mobilisation period for the bidder shall be 07 (Seven) days from the date of issue of work order as per the visit schedule decided by EIC.

Terms of Payment :

The bidder shall submit monthly/RA bills for executed in triplicate to EIC along with copies of lists of equipment covered under monitoring during the visit duly counter signed by respective site in charges. The payment shall be released by GAIL by way of e-banking for which the bidder shall have to share their bank account number of ICICI / HDFC / SBI (branch with e-banking facility). Bills are to be submitted to EIC on or before 23rd of each month (excluding Holidays as per GAIL list).

Price Reduction Schedule :

The visit of the Vibration engineer shall be as per schedule provided by GAIL. Condition monitoring of all the units of VSPL can be clubbed to cover all the three locations by single visit starting from Vizag then Vijayawada then Cherlapalli or vise versa. The bidder shall reduce their invoice at the rate of 1/2% of the value of total order per week of delay or part thereof subject to a maximum aggregate of 5% of the TOTAL VALUE OF CONTRACT. The clause will be governed by clause no.27.0 of GCC & clause 7.1 & 7.2 of SCC.

Performance Bank Gaurantee :

The shortlisted contractor for award have to deposit 10% of total contract value in the form of BG / Demand Draft towards their Contract Performance Security within 15 days from placement of order. The Contract Performance Security will be refunded to contractor after expiry of defect Laibility Period.

GCC clause 24 (24.1 till 24.05) of Contract Performance Security to be followed.

Other Contractual Stipulations:

All other terms are as per SCC & Scope of work given as attachement to this tender.

General Conditions of Contract :

General Conditions of Contract for Procurement of Works, May 2004, Rev.0 of GAIL shall be applicable to this tender. May please refer GCC issued with the tender or visit website <http://gailonline.com>.

Special Conditions of Contract :

As per SCC enclosed with the tender.

Enclosures :

SCC, Format A&B

Bid Evaluation Criterion:

Technical

1. The bidder must have the equipment for vibration analysis with dual channel analyzer along with a separate port for taking the data from online key phasor install in Bently 3500 series system. i.e. The Vibration Analyzer must be able to take readings from out put of non contact type proximity probe through BNC type connectors and generate FFT Analysis from it. The details of equipment supported with catalogue / datasheet / confirmation from the manufacturer

of the equipment must be submitted along with the bid for the proof of the above technical requirement.

2. The bidder should have executed one single order of Vibration monitoring and vibration analysis of various rotating equipments likes multi stage centrifugal machines like pumps /multistage centrifugal compressors /Gas turbines /steam turbines in petrochemical /power /fertilizer /refineries. of minimum of Rs.6.0 lacs in any previous five years (i.e. 04-05,05-06,06-07,07-08,08-09) to be reckoned from the date of submission of bid. Supporting document like work completion certificate and copy of work order to be submitted along with bid.

Financial

1. Bidders should have turnover minimum Rs.3.0 lacs in any of the three preceding audited financial years i.e. FY 2005-06, 2006-07, 2007-08. Notarized attested copy of audited profit and loss account/balance sheet shall be submitted along with un-priced offer.

2. The bidder should have at least Rs. 1.2 lac working capital for the year 2007-08 or in absence a line of credit from bank.

A copy of Balance Sheet and P&L a/c for the FY 2007-2008 is to be submitted to verify fulfilling of BEC 1 & 2 in addition to submission of completed format A & B.

Further the bidder should submit copy of PF registration certificate duly attested by Gazetted Officer along with Bid document, failing which their Bid shall not be considered for further evaluation.

In addition to above BEC, the Bidder has to submit the EMD of Rs. 22,000/- as DD/Bank Guarantee (BG) along with the offer as per tender requirement.

Bids complete in all respects should reach office of Incharge (C&P), GAIL (India) Ltd., at the above address on or before 14.00 hrs of the scheduled date. Bids received after the due date and time are liable to be rejected.

GAIL reserves the right to accept or reject any or all tenders received at its absolute discretion without assigning any reason whatsoever.

Thanking You,

Yours truly,
For & on behalf of
GAIL (India) Ltd.

(Authorised Signatory)

SCHEDULE OF RATES

Out. lev. Item No.	Service Description	Qty.	UOM	Rate	Amount
ITEM 00001 Vibration monitoring at VSPL					
Plant : 3830,LPG Tr - VSPL (HO -Vizag)					
10	Visit for one man-day(8 hrs) at GAIL Vi zag for vibration monitoring of installed LPG pumps and fire water pumps or any other machines# inclusive of traveling, boarding & lodging. (Visit to be conducted on monthly basis)	24	MAD	_____	_____
20	Visit for one man-day (8 hrs) at GAIL Vijayawada unit# for vibration monitoring of fire water pumps or any other machines inclusive of traveling, boarding & lodging. (Visit to be conducted on quarterly basis)	8	MAD	_____	_____
30	Visit for one man-day (8 hrs) at GAIL Cherlapalli# unit# for vibration monitoring of fire water pumps or any other machines inclusive of traveling, boarding & lodging (Visit to be conducted on quarterly basis)	8	MAD	_____	_____
40	Optional items to be operated only on need basis. If the job requirement arises such that visit on next consecutive day after the visit of first day is required (to be decided by GAIL)#	0	EA	_____	_____
50	Visit on next consecutive day for one man-day (8 hrs)# just after the visit of first day at any of the location namely Vizag or Vijayawada or Cherlapalli for vibration monitoring of installed LPG pumps or# fire water pumps or any other machines# inclusive of traveling, boarding & lodging.	10	MAD	_____	_____
60	Service tax @-_____	1	AU	_____	_____

Quotation Item 00001 Total Value :

TOTAL QUOTATION VALUE :

ANNUAL TURNOVER

Applicant's Legal Name :
JV Partner's Legal Name:

Date:
TENDER NO:

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Each Bidder must fill in this form (Single Entity)

Annual Turnover data for the last 3 years.

<i>Year</i>	<i>Currency</i>	<i>Amount</i>	<i>Ex. Rate(*)</i>	<i>Amount(INR)(*)</i>
Year1:				
Year2:				
Year3:				

Each member of a JV/Consortium must fill in this form(J.V./Consortium)

Annual Turnover data for the last 3 years

<i>Year</i>	<i>Currency</i>	<i>Amount</i>	<i>Ex. Rate(*)</i>	<i>Amount(INR)</i>
Leader of J.V./Consortium				
Year1:				
Year2:				
Year3:				
Partner A				
Year1:				
Year2:				
Year3:				
Partner B				
Year1:				
Year2:				
Year3:				
Total:				

1. The information supplied should be the Annual Turnover of the applicant and each member of a JV/Consortium.
2. A brief note should be appended describing thereby details of turnover as per audited results.

Signature of Bidder

(*) To filled by Owner/Consultant

FINANCIAL SITUATION

Applicant's Legal Name :
JV Partner's Legal Name:

Date:
TENDER No:

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Each Bidder or member of a JV/Consortium must fill in this form

FINANCIAL DATA FOR LAST AUDITED FINANCIAL YEAR

<i>Description</i>	<i>Year</i>		
	<i>Amount</i>	<i>Ex. Rate(*)</i>	<i>Amount (INR) (*)</i>
1. Current assets			
2. Current Liabilities			
3. Working Capital (1-2)			
4. Net Worth Owners funds (Paid up share capital and Free Reserves & Surplus)			
5.Profits before taxes			
6. Return on Equity (5/4) X100			

1. Attached are copies of the audited balance sheets, including all related notes, and income statement for the last Audited Financial year, as indicated above, complying with the following conditions.

- All such documents reflect the financial situation of the bidder or partner to a JV/Consortium, and not sister or parent companies.
- Historic financial statements must be audited by a certified accountant
- Historic financial statements must be complete, including all notes to the financial statements.
- Historic financial statements must correspond to accounting periods already completed and audited (no statement for partial periods shall be requested or accepted)

(*) To be filled by Owner/Consultant

Signature of Bidder

REPORT FOR VIBRATION MONITORING FOR THE MONTH:

PERIODICITY : MONTHLY

PART I : Preliminary vibration report (machine under unacceptable / still acceptable limit requiring immediate corrective action for 1 month)

S NO	MACHINE NAME	HIGHEST AMP. (IN APPROPRIATE UNIT)						REMARKS/ SUGGESTED REMEDIAL ACTION
		PREVIOUS	LOC	PRESENT	LOC	**	***	

** HEALTH CONDITION : AL-ALLOWABLE, SL-STILL ACCEPTABLE, NP-NOT PERMISSIBLE

*** CLASS-I 2.5/6.4, CLASS-II 4.0/10, CLASS III 6.5/16.0, CLASS-IV 10/25.0

NOTE : 1. CONDITION IS DECIDED ON THE BASIS OF ISO CLASS APPLICABLE,
TRENDING HISTORY AND ANALYSIS.

FORM

PART II: Follow up report (Data of part-I of last month v/s current vibration reading)

[illegible]

*** CLASS-I 2.5/6.4, CLASS-II 4.0/10, CLASS III 6.5/16.0, CLASS-IV 10/25.0

NOTE : 1. CONDITION IS DECIDED ON THE BASIS OF ISO CLASS APPLICABLE,
TRENDING HISTORY AND ANALYSIS.

REPORT FOR VIBRATION MONITORING FOR THE MONTH:

PERIODICITY : MONTHLY

PART I : Summary sheet for all the equipment covered in the current month

S NO	MACHINE NAME	HIGHEST AMP. (IN APPROPRIATE UNIT)						REMARKS/ SUGGESTED REMEDIAL ACTION
		PREVIOUS	LOC	PRESENT	LOC	**	***	

** HEALTH CONDITION : AL-ALLOWABLE, SL-STILL ACCEPTABLE, NP-NOT PERMISSIBLE

*** CLASS-I 2.5/6.4, CLASS-II 4.0/10, CLASS III 6.5/16.0, CLASS-IV 10/25.0

NOTE : 1. CONDITION IS DECIDED ON THE BASIS OF ISO CLASS APPLICABLE,
TRENDING HISTORY AND ANALYSIS.

the current

DATE OF CHECK

IAT NO 4.1

DATE OF CHECK

IAT NO 4.2

DATE OF CHECK

SPECIAL TERMS & CONDITIONS OF CONTRACT

The job is to be carried out for three stations at Vizag, Vijaywada and Secunderabad for VSPL LPG project.

The machines at Vijaywada and Cherlapalli:

- 1) Two numbers of Fire water jockey pump (18.5KW approx.) at each location (Vijaywada and Cherlapalli).
- 2) Two numbers of diesel engine driven fire water main pump (237 KW approx) at each location (Vijaywada and Cherlapalli).
- 3) Two numbers of raw water pump (3.7KW) at each location (Vijaywada and Cherlapalli).

GAIL Vijayawada Address:

GAIL (India) Limited,
VSPL LPG Booster Station,
G Konduru,
Vijayawada – 521229
Krishna District, A.P.

GAIL Cherlapally Address:

GAIL (India) Limited,
Receiving Terminal,
Behing HPCL Bottling
Plant,
Cherlapally (Vill / Man),
Rangareddy District,
Secunderabad.

GAIL Vizag Address:

GAIL (India) Limited,
Dispatch Terminal,
Opp: Ayyappa Swamy
Temple,
Sheela Nagar, BHPV Post,
Visakhapatnam – 530012

The machines at Vizag:

- 1) Three numbers of VSD motor driven 10 stage LPG mainline pump (630KW)
- 2) Four number of VSD motor driven two stage LPG booster pump (125KW)
- 3) Two numbers of Fire water jockey pump (18.5KW approx.)
- 4) Two numbers of diesel engine driven fire water main pumps (237 KW approx).
- 5) Two numbers of raw water pump (3.7KW).
- 6) Two numbers of air humidification blower (7.5KW).
- 7) Seven numbers of condenser cooling fan motor (1.6HP).

1. GENERAL:

1.01 The special conditions of contract shall be read in conjunction with the General Conditions of Contract, schedule of rates, scope of work and any other documents forming part of contract wherever context so requires.

1.02 In case of any contradiction, the decision of Engineer-in-charge would be final and binding on bidder.

1.03 In general the scope of job shall be as per the job details given in SCOPE OF WORK and SCHEDULE OF RATES. However details specification of jobs shall be as per details given in this contract under scope of work and as per standard Engineering practice and relevant codes being followed in petroleum plant, vibration jobs.

1.04 The prospective bidder shall be required to depute 1 no technical expert having required knowledge and experience monthly for specified period to accomplish the task of vibration analysis and report generation in totality.

1.05 GAIL reserves the right to reject any one or all the personnel employed by bidder on the basis of their performance, conduct and / or discipline.

1.06 GAIL may, at times, require deputation of Technical expert for carry out specific job, based on plant requirement, as per EIC instructions. If the bidder fails to mobilize the required manpower and resources within the stipulated time as decided by EIC, GAIL may get the work done through other agency at the risk and cost of the bidder.

1.07 The material of the bidder can be checked by the Engineer-in-charge or his authorized representative for any confidential material not to pass from the factory main gate. No tools & tackles shall be removed from the site without prior permission of Engineer-in -Charge.

1.08 The rates quoted in schedule of rates are inclusive of all machineries and consumables which are to be supplied by the bidder, general purpose tools, bidder's supervision, transportation, boarding and lodging, over heads and profits. These are inclusive of taxes, duties, levies, contract tax, sales-tax, statutory payments, license fee etc. imposed by government of A.P.

1.09 The working hours will be eight and half hours a day on working day with a break of half an hour for lunch. Working hours will be notified from time to time and can be changed as per exigencies of work.

1.10 The bidder shall make his own arrangement for the transportation, conveyance, lodging & boarding of his men and GAIL will have no obligation in this respect.

1.11 Nothing herein contained shall restrict the GAIL from accepting similar services from other agencies at its discretion.

1.12 The bidder shall be solely and exclusively responsible in engaging or employing persons for the executions of the contract. All employees engaged by the bidder shall be on his pay roll and be paid by him. GAIL will have no liability whatsoever concerning the employees of the bidder.

1.13 The bidder shall indemnify the owner against all loss or damages or liability arising out of or in the course of his employing persons or out of his relations within his employees.

1.14 The bidder shall be directly responsible for any disputes arising between him and his employees and the owner shall be indemnified against all losses, damages or claims arising thereof.

1.15 The bidder must fill up the annexure A & B along with the unpriced bid.

2. PERMISSION FOR THE PERSONNEL DEPLOYED:

2.1 All bidder's personnel entering the plant must have prior permission from the each plant security in-charge.

2.3 The bidder's men are required to keep the entry permission with them all the time inside the plant and should produce it to the security personnel, if required..

3. WORK TO BE CARRIED OUT IN RESTRICTED AREA:

The work is to be carried out in "Restricted Area" and the bidder shall have to obtain the necessary permission to work as per instructions of the EIC and shall start the job only after obtaining suitable work permit.

4. BIDDER TO PROVIDE SAFETY APPLIANCES:

The bidder shall provide **cotton cloth, safety shoes and helmets** to all the personnel deployed under the contract. If the bidder fails to provide the same, GAIL will issue the same at the risk and cost of the bidder. Other safety appliances such as dust mask, safety belts, ear plugs & ear muff and any other safety appliances are to be provided by the bidder to his personnel as per requirement during the execution of the contract.

5. DEPLOYED PERSONNEL TO OBSERVE SAFETY RULES:

All the bidder's men, who are permitted inside the plant should strictly follow all safety rules & regulations. They should be conversant with the safety precautions to be followed in handling LP Gas and associated products. The bidder shall abide by the advice & guidance of the safety officer in the plant. In addition, the bidder shall follow the safety codes framed and use safety shoes, helmet, safety belt, dust mask (wherever required). Smoking inside the plant is strictly prohibited. No

bidder's men are allowed to possess match boxes, lighters, cigarettes, beedies, transistors or any other causes of fire hazards.

7. PRICE REDUCTION SCHEDULE

7.1 The visit of the Vibration engineer shall be as per schedule provided by GAIL. Condition monitoring of all the units of VSPL can be clubbed to cover all the three locations by single visit starting from Vizag then Vijayawada then Cherlapalli or vice versa. The bidder shall reduce their invoice at the rate of ½% of the value of total order per week of delay or part thereof subject to a maximum aggregate of 5% of the TOTAL VALUE OF CONTRACT. The clause will be governed by clause no.27.0 of GCC.

7.2 Penalty for delayed submission of preliminary report:

A penalty @ Rs.500/- (rupees five hundred only) per week of delay or part thereof in submission of report shall be applicable for delay in production of report beyond seven days from the date of the measurement. This penalty is in addition to the price reduction schedule. However total deductions may be restricted to maximum of 5% of work order value.

8. JURISDICTION:

All questions, disputes or difference arising under or out of or in connection with this contract shall be subject to the exclusive jurisdiction of the courts of Vizag (A.P) only.

9. SOR QUANTITIES AND PRICE:

SOR quantities shown in schedule of rates are only indicative and the same may be subject to wide variation in both ways. The bidder shall not seek any revision in the price quoted on account of any such variation in the quantity. Payment shall be made only for the actual work/manpower certified by the Engineer-in-charge.

10. MOBILISATION PERIOD

Mobilisation period for the bidder shall be 07 (Seven) days from the date of issue of work order as per the visit schedule decided by EIC..

11. PERIOD OF CONTRACT AND EXTENSION OF THE CONTRACT:

11.1. The initial contract period of this contract for completion of all jobs listed in the schedule of rates shall be **24 Months** from the date of starting the work.

11.2. The Defect Liability of contractor will be uptill 3 months from completion of work and the Contract Performance Guarantee shall be released after expiry of Defect Liability Period.

12. PRICE:

12.1. The initial contract price shall be arrived at by considering the jobs description as per the SOR and the rate quoted by the bidder. Even in the event of large variation of the contract value arising from non execution of certain SOR items including optional items/addition/deletion of SOR items, the unit rate as quoted by the party shall remain the same and no revision in rates whatsoever will be applicable during the present tenure of contract or extension thereof.

12.2. The rate quoted by the bidder shall remain firm throughout the period of the contract. Schedule of rates shall be deemed to include and cover all cost, expenses, liabilities taxes and duties including

work contract tax of every description and all risk of every kind to be taken in executing and completing the work.

12.3. The unit rate quoted shall include all expenditure envisaged by the bidder.

13. MONTHLY BILL SUBMISSION:

The bidder shall submit monthly/RA bills for jobs executed in triplicate to EIC along with copies of lists of equipment covered under monitoring during the visit duly counter signed by respective site in charges. The payment shall be released by GAIL by way of e-banking for which the bidder shall have to share their bank account number of ICICI / HDFC / SBI (branch with e-banking facility). Bills are to be submitted to EIC on or before 23rd of each month (excluding Holidays as per GAIL list).

14. PAYMENT OF ADVANCE:

No advance in any case will be paid for the contract.

15. TERMINATION:

15.1. Notwithstanding anything contained elsewhere, GAIL may at any time at its discretion terminate the contract or part of the contract after giving 30 days notice in writing to the bidder without assigning any reason and upon such termination, GAIL shall have the right to remove their materials from site and the bidder shall be paid price of the work satisfactorily completed in accordance with the provision of this contract.

15.2. If GAIL considers that the performance of the bidder under the contract is unsatisfactory or not up to the expected standard, GAIL shall notify the bidder in writing and may specify in details the cause of its dissatisfaction. If, even after written notification from GAIL, the bidder fails to improve the performance within the specified period mentioned in the notification, GAIL may terminate the contract unilaterally.

A) GAIL may without prejudice to its right against the contractor in respect of any delay of otherwise or any claims for damage, in respect of any breach of the terms of the contract and without prejudice to any right or remedies under any of the provisions of this contract or otherwise, by notice in writing absolutely terminate the contract with immediate effect in any of the following cases:

In the even of the contractor going into liquidation or winding up his business or making arrangement with his creditors, GAIL shall have the right to terminate the contract without prejudice to any other right/remedies.

In the event, if it is found that contract has been procured by submitting incorrect or incomplete statements by the contractor or by making any misrepresentation.

If in the opinion of GAIL, the contractor has delayed or suspended the execution of work, the facilities and Vehicles etc., offered by the contractor to be inadequate for effective completion of the job.

In the event of any breach of the terms and conditions of the contract by the contractor or if the contractor is found to be indulging in activity subversive to GAIL's interest or activity prejudicial to the interest of GAIL and for any other good or sufficient reasons.

Up to such termination of the contract the security Deposit/Bank Guarantee are liable to be forfeited / invoked to satisfy the outstanding claims of GAIL.

Notwithstanding anything contained above, GAIL may, as its sole discretion, terminate this contract by giving the contractor 30 days written notice to the effect, without assigning any reasons whatsoever. The contract shall be deemed to have expired on expiry of the original period unless extended.

B) SUMMARY OF TERMINATION OF CONTRACT DUE TO SUBMISSION OF FALSE DOCUMENTS:

Bidders are required to furnish the complete and correct information / documents required for evaluation of their bids. If the information / documents forming basis of evaluation is found to be false/forged, the same shall be considered adequate ground for rejection of the Bids and forfeiture of Earnest Money Deposit.

In case, the information/documents furnished by the contractor forming basis of evaluation of his bid is found to be false/forged after the award of the contract, GAIL shall have full right to terminate the contract immediately and get the remaining job executed at the risk & cost of such contractor without any prejudice to the other rights available to GAIL under the contract such as forfeiture of Security Deposits, withholding of payments etc.

In the case the issue of submission of false document comes to the notice after execution of the work, GAIL shall have full right to forfeit any amount due to the contractor along with forfeiture of Security Deposit furnished by the contractor.

Further, such contractor/bidder shall be blacklisted for future business with GAIL

16. OTHER TERMS AND CONDITIONS:

16.1. bidder should ensure that no damage of machine parts/equipments/ piping is caused by their personnel while doing vibration analysis jobs.

16.2. All the bidder's materials, equipments, tools & tackles will be marked and punched with the name of bidder. All such material will be shown at the factory main gate for necessary entry. The responsibility of taking the equipment inside the plant and taking it out after the job completion shall be with the bidder.

16.3. The bidder shall review the progress of work during the visit with the concerned GAIL Engineers. In case of delay he will be required to adjust the working time or extend the period of stay to complete the job in totality.

17. 0 TAXES, DUTIES, OCTROI, LEVIES ETC.

The quoted rates shall be deemed to be inclusive of all taxes, duties, octroi, levies, works contract tax, bonuses, statutory payments etc. till the completion of the contract and the contractor shall not be eligible for any compensation on this account during the entire period of contract.

However, for service tax, the bidder has to quote the percentage (%) of service tax at the applicable rate categorically specifying the same in the SOR (schedule of rates) otherwise it shall be presumed and deemed that service tax is nil and, GAIL shall not reimburse the portion of service tax for this entire contract period.

17.1 DOCUMENTS REQUIRED FOR CLAIMING SERVICE TAX:

The bidder shall indicate in the bid the service tax registration number and in case the service tax registration number is not available, the bidder will give confirmation for obtaining registration with a copy of application for registration.

The contractor liable to pay service tax for the work/ services rendered to GAIL, shall specifically mention the service tax registration number in their invoices. Further, the amount and rate of service tax shall be separately and distinctly specified in the invoice.

For payment of service tax, serially numbered invoice/ bill shall be issued by service provider and should also specify the following:

- (i) The name, address and registration number of the service provider.
- (ii) The name and address of the recipient of the taxable service.
- (iii) Description, classification & value of taxable service provided and;
- (iv) The service tax payable on such services.

18. LEGAL AND STATUTORY RESPONSIBILITY OF THE CONTRACTORS

It shall be the sole liability of the contractor (including the contracting firm) or company should have independent PF Codes allotted by the PF Authorities under the employees Provident Funds and Miscellaneous Provision Act, 1952.

The contractor shall also be bound to discharge obligations as provide under various statutory enactments including the employees provident fund and Miscellaneous Provisions Act 1952, ESI Act, 1948, Minimum Wages Act 1948, Payment of Wages Act 1936, Workmen's Compensation Act 1923, the Contract Labour (R&A) Act, 1970 the interstate Migrant workmen (Regulation of employment and condition of service) Act, 1979 Payment of bonus act and other relevant Act, Rules and regulations in force from time to time.

The Contractor shall ensure that the Contractor / Contracting firm should have separate ESI Code allotted under the Employees' State Insurance Act – 1948 in case the work center / site office is covered under the said Act. In case the area where our work center is situated is not covered under the ESI. It must be ensured that the Contractor / Contracting firm should cover his / its employees under an insurance coverage.

The contractor shall indemnify and keep the owner harmless of all claims, damages or compensation payable at law in respect or in consequence of any accident or damage arising under or by reason of this agreement or execution of contract.

19.0 CONTRACT PERFORMANCE SECURITY

The shortlisted contractor for award have to deposit 10% of total contract value in the form of BG / Demand draft towards their Contract Performance Security within 15 days from placement of order. The Contract Performance Security will be refunded to contractor after expiry of Defect Liability Period.

20.0 Abnormally High rate Items (AHR)

In item rate contract where the quoted rates for the item exceeds 50% of the owners estimated rates, such items will be considered as Abnormally High Rated items(AHR) and payment of AHR items beyond the stipulated quantities included in the schedule of rates shall be made at the least of the following rates:

- 1) Rate as per SOR, quoted by the contractor.
- 2) rate of the item, which shall be derived as follows:
 - a) Based on rate of machine and labour as available from the contract (which includes 10% covered towards contractor's profit overhead and other expenses)
 - b) based on prevailing market rate of machine material and labour plus 10% to cover supervision, contractor's profit & overheads, when the rates are not available in the contracts.

SCOPE OF WORK:

Scope of service in broad will include the followings:

During the visits of vibration engineer at various sites of VSPL the readings of the machines are to be collected as per instruction of EIC.

1.1 Vibration Analysis

1.1.1 Vibration monitoring and analysis (including signature, frequency, amplitude, velocity, acceleration and spike energy), trending, root cause analysis, data acquisition & report compiling at per periodicities indicated in Schedule of Rates. In specific cases, coverage of equipments periodicity may be altered at the sole discretion of GAIL.

1.1.2 All necessary instruments, accessories and consumables required for carrying out the work shall be arranged by the bidder within quoted rates. All the equipments used by the bidder are to be suitable for hazardous area operation.

1.1.3 The work will include, besides vibration monitoring/ analysis, the followings:

1.1.3.1 Preliminary report of vibration analysis for all the equipments (Format no 4.1) is to be submitted at the end of the visit to the EIC/ Concerned Engineer. However brief report for equipments having vibration level beyond acceptable limits and requiring corrective action is to be submitted for taking corrective action immediately. Equipments rectified as per the brief report are to be re-monitored during the same visit free of cost till satisfactory health of the equipment.

1.1.3.2 Vibration History of each equipment (Format no 4.2) on monthly basis along with FFT analysis graphs. (I.e. frequency spectrum curve for each measuring points)

1.1.3.3 Vibration Trending of each equipment (Format no 4.3) on six monthly basis. For antifriction bearings velocity, acceleration and spike energy trending are also to be generated.

1.1.4 The equipment classification to be worked out by the bidder for report generation and severity as per ISO 2372 and vibration trending.

1.1.5 The number of points and locations for individual equipment will be selected to have a comprehensive vibration patterns to ascertain the overall health of the equipment. The decision of EIC shall be binding and final on the bidder for above.

1.1.6 For three Mainline pumps(102A,102 B ,102 C) which are mounted with proximity probes and key phasor (Two half Journal type bearings with Kingsbury six piece tilting pad thrust bearings) along with on line vibration monitor of Bentley Nevada Make (Type: 3500 Series) for Main Line pumps(coupled with variable speed drive motors).The equipment/instrument to be brought by the bidder for vibration monitoring for pump vibration should be compatible with above on line monitor (type :3500 series) of GAIL so as to generate the required data for vibration analysis. Submission of reports only from casing vibrations for mainline pumps (with any kind of casing mounted velometer and accelerometer) is not acceptable and will be treated as breach in terms and condition of contract and GAIL may get the work done through other agency at the risk and cost of the contractor / bidder.

1.1.7 If required GAIL may ask the contractor to carry out transient analysis of the mainline pumps and submit start up / coasting down water fall analysis, bode plot & polar plot analysis and orbit analysis and shaft center line plotting along with detail FFT analysis for the machines. Non compliance of the transient analysis job within 14 days from the date of GAIL's request shall be treated as breach in terms and condition of contract and GAIL may get the work done through other agency at the risk and cost of the contractor / bidder.

However, for the drive motors of the mainline pumps (fitted with rolling element bearings and no proximity probes) casing vibration analysis with casing mounted velometer and accelerometer is acceptable.

1.1.8 All types of monitoring/analyzing /reporting instruments shall be deployed by bidder to ensure satisfactory coverage and in this regard bidder shall comply with GAIL's directive. These will include all instruments/equipment/probes etc. necessary to take the regular vibration data.

1.1.9 The instruments/equipments deployed by the bidder shall be of latest type/state of art of the leading manufacturer of the world. The vibration pick up probe or transducer should have valid calibration certificate from the Original Equipment manufacturer or NABL accredited agency and the copy of the same shall be submitted by the bidder along with the bid. During the whole contract period, the calibration certificate should be valid. If required recalibration is to be carried out from OEM or NABL accredited agency on time to time basis as per instruction of EIC.

1.1.10 The Booster pumps, Fire water pumps and raw water pumps and all the motors are mounted with rolling element bearings. FFT analysis along with frequency spectrum of each and every vibration measurement point is to be generated and submitted. The data collection for monitoring and subsequent trending as well as analysis of these equipments is to be done with standard magnetic pick up probes (velometers and accelerometers).

1.1.11 The engineers/experts to be deployed for analysis and report must possess minimum 5 years in-line experience & minimum qualification shall be Degree in Engineering. The technician / engineer who will be engaged for data collection in field must possess minimum 3 years in-line experience & minimum qualification shall be diploma in Engineering. The above is the minimum requirement & in case the deputed representative at site is not found to be suitable, the bidder will withdraw the same & provide immediate replacement. The biodata of the person(s) deputed for carrying out the field data collection and subsequent analysis shall be submitted by the bidder before the start of job.

1.1.12 Intent of the contract is to ensure excellent health of the various equipments and timely diagnosis of the any performance deviation, and so the scope of the contract will encompass all aspects of vibration related issues/ problems even though the same is not mentioned specifically in the contract and the bidder shall provide the services accordingly.

2.0 APPLICABLE STANDARDS:

2.1 In general the applicable standard for vibration monitoring shall be ISO 2372. However the diagnosis of the conditions of the same are to be ascertained depending upon the trend and behavior of individual machine.

3.0 SUBMISSION OF REPORTS:

All the reports shall be submitted within their time schedule as detailed below given below:

3.1 Preliminary vibration report:

Preliminary report of vibration analysis for all the equipments (Format no 4.1) is to be submitted at the end of each visit at each site to the EIC/ Concerned Engineer. However brief report for equipments having vibration level beyond acceptable limits and requiring corrective action is to be submitted immediately on the same week for initiating corrective action.

3.2 Detailed Monthly Vibration Report:

3.2.1 The monthly report shall consist of three parts:

- A) Part 1 : Critical equipment Report requiring corrective action.
In this report vibration expert will have to forward root cause analysis based on velocity, acceleration, spike energy or phase angle values as applicable depending on circumstances and behavior of the particular machine.

If required GAIL may ask further detail analysis to segregate out the probable defects before any corrective action, which shall be done with no extra cost to GAIL.

- Part II : Follow up Report for equipments for which corrective action was taken based on previous critical report.
- B) Part I : Report of equipments having vibration values in the still acceptable range.
- C) Part I : Summary Report giving brief details of vibration levels for all equipments along with FFT analysis graphs of the Axial/ Vertical/ Horizontal reading at that point. (i.e. frequency spectrum curve for each measuring points).

3.2.2 Monthly vibration report shall consisting of equipment vibration history (Format no 4.2), vibration signature for all the equipments mentioned above in SOR (Schedule of Rate), vibration trending for all the equipments mentioned above (Format no 4.3), diagnosis reports etc. The report will cover all monitoring done with computer back up and will be duly bound in durable covers.

3.2.3 The monthly report as above shall be submitted so as to be received by GAIL within one week by soft copy & before 21st of each month (excluding Holidays as per GAIL list) by hard copy. However, time period for the submission of reports may be altered at GAIL's discretion if considered necessary during execution of contract. Unless and until the detailed monthly reports are submitted, the job will be treated as incomplete.

3.3 Six Monthly Vibration Trending:

Vibration trending of each equipment will be maintained for each monitored point of the equipment and the bidder has to submit such vibration trending report after every six month for all the equipment (Format no 4.3) The trend shall be comprising of plot for each monitored point

of the equipment taking into account the highest of the Axial/ Vertical/ Horizontal reading at that point.

4.0 Formats for reports:

The lists of applicable formats for routine or specific monitoring are as follows:

PART(A)

Format no 4.1 : PART-I: Preliminary vibration report(machines under unacceptable & still acceptable limit requiring immediate corrective action.)
PART-II: Follow up report data of PART-I of last month V/S current vibration report.

PART(B)

Format no 4.2 : PART-I: Detailed Monthly Vibration Report(summary sheet for all the equipment covered in the current month).

PART(C)

Monthly frequency spectrum curves for each measured points of each machines.

PART(D)

Format no 4.3 : Six Monthly Vibration Trending.
For antifriction bearings velocity, acceleration and spike energy trending are also to be generated.

The reports are to be submitted in the prescribed formats. However, the format may be altered at GAIL's discretion if so felt during the tenure of contract and the same shall be compiled with by bidder without any reservation or price enhancement.

5.0 Frequency of Visit

The bidder shall deploy his personal to Vizag, Vijaywada, and Secandrabad for carrying of the required analysis as per frequencies mentioned in Schedule of Rate (SOR). The schedule of visit shall be worked out in consultation with the EIC and shall be tentatively planned for staring the job not later than 10th of each month. However dates can be altered as per GAIL requirement/ due to delay in report submission and intimation for revised dates will be given one week in advance.

6.0 GAIL scope

6.1 Necessary assistance in the form of permits, gate passes etc. to carrying out the vibration monitoring in the filed.

6.2 Power supply for the equipment, if required.

7.0 Bidder scope

- 7.1 All necessary expertise, equipments and consumables for carrying out vibration analysis.
- 7.2 ALL safety gears to the vibration monitoring engineers and technicians to be deployed by them.
- 7.3 All the expenses including board and lodging and traveling expenses of the persons of the bidder who will be engaged for the execution, monitoring, follow up or any other job linked thereof is to be arranged by the bidder fully.

ANNEXURE – A

DETAILS OF SIMILAR TYPES OF JOBS EXPERIENCE

Sl. No.	Details of job	Company's name & address	Value of contract	Year of Contract

(SIGNATURE OF BIDDER WITH SEAL)

NOTE: bidder must submit the above information with the technical portion of the bid. All copies of above work orders along with their completion certificates must be attached along with the bid.

ANNEXURE-B

**THE BIDDER MUST FILL THE FORM ALONG WITH THE TECHNICAL BID FOR
TECHANICAL EVALUATION MENTIONING HARD WARE,SOFT WARE &
MANPOWER REQUIREMENT**

SR No	DESCRIPTION	YES /NO
1	Duel channel analyzer alongwith a separate port for taking data from online key phasor signal installed in Bently 3500 series syatem.	
2	Ability to take real time data.	
3	Availability of trending, plotting FFT /wave from generation.	

The bidder must have the equipment with dual channel analyzer alongwith a separate port for taking the data from online key phasor installe in Bently 3500 series system. The details of equipment supported with catalogue / datasheet / confirmation from the manufacturer of the equipment must be submitted along with the bid for the proof of the above technical requirement.

NB: 1. The equipments must be capable of generating all the data required for vibration report as per the details given in scope of work.

(SIGNATURE OF BIDDER WITH SEAL)

SAMPLE FORMAT 4. 3 FOR SIX MONTHLY TRENDING:

TREND CHART OF GT - VENT FAN 1A

