



Oil India Limited
(A Govt. of India Enterprise)
P.O. Duliajan – 786602, Assam

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Tender No. : **SDG0302P16/07 OF 19.02.2016**

Bidding Type : **SINGLE STAGE TWO BID SYSTEM**

Tender Document sell date: from 19.03.2016 to 11.05.2016 at 15.30 hrs (IST)

Bid Closing on : **18.05.2016 at 11:00 hrs (IST)**

Bid Opening on : **18.05.2016 at 14:00 hrs (IST)**

Tender Fee : **INR 4,500.00 OR USD 100.00**

Bid Security Amount : **INR 118,000.00 OR USD 1,735.00**
(Or equivalent amount in any currency)

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No.	MATERIAL DESCRIPTION	QT Y.	UO M
<u>10</u>	<u>Supply of Gas Chromatograph as per the following:</u> a) Detailed specification – Annexure - A b) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria – Annexure-B c) Commercial Check list - Annexure - C	01	No.

GENERAL NOTES FOR E- TENDER:

1.0 The tender will be governed by “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) including Amendments & Addendum to “General Terms & Conditions” for e-Procurement.

2.0 Commercial Check list is furnished vide Annexure – C. Please ensure that the check list is properly filled up and uploaded along with Technical bid.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL’s e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with tender no. and due date to The Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender.

e-Tender No. SDG0302P16/07

- a) **Original Bid Security along with duplicate copies of Bid Security**
- b) **Details Catalogue and any other document which have been specified to be submitted in original.**

4.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidder has to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. The "Techno-commercial Unpriced Bid" shall contain all technical and commercial details except the prices which shall be kept blank. Details of prices as per Bid format / Commercial bid to be uploaded as attachment in the Attachment Tab "Notes and Attachments".

Any offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.

5.0 In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that "TECHNO-COMMERCIAL UNPRICED BID" should contain details as mentioned in the technical specifications as well as BEC/ BRC and upload the same in the Technical RFX Response-> User - > Technical Bid. **No price should be given in above Technical Rfx otherwise the offer will be rejected.** Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFX Response-> User - > Technical Bid only. The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments"

6.0 PRICED BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNO-COMMERCIALLY ACCEPTABLE.

7.0 All the Bids must be Digitally Signed using "Class 3" digital certificate (*e-commerce application*) only as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3" digital certificate, will be liable for rejection.

8.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications.

9.0 The Integrity Pact is applicable against this tender. OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. **If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.**

OIL's Independent External Monitors at present are as under:

1. SHRI RAJIV MATHUR, IPS(Retd.),
e-Mail ID : rajivmathur23@gmail.com

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ANNEXURE- A

SCOPE OF SUPPLY

1.1 The Scope of supply would cover supply, services, installation, testing and commissioning of a high precision fully microprocessor controlled multidimensional TCD based Natural Gas Analyser (NGA) along with Standard Gas calibration Mixture, Zero Air (Compressed air) Generator, Gas Purification Pannel. The GC should have a provision of Automated Gas sampling Valve and Electronic Pneumatics control system comprising of PC based human machine interfacing station for the analysis of natural gas C1 to C5, C6+ (back flush), N₂, O₂ and CO₂ as per GPA2261/ASTM D1945/ISO6976 along with a PC and printer as per the technical specifications and other terms and conditions given below.

1.2 Certified Calibration Gas Mixture supplied with cylinder and 2-way brass valve regulator: The relevant calibration gas mixture duly certified by NABL or equivalent laboratory (third party calibration certificate) as mentioned below must be supplied along with the instrument. The capacity of the calibration gas mixture should be 10 litre with filling pressure of 80-90 kg/square centimeter with following specification.

Name of the componen	Mole%	Preparation tolerance	Certificate of Accuracy
C6+	1 %	+/-10%	+/- 2%
C1 (Methane)	(BALANCED)	+/-1%	+/- 0.5%
C2	6 %	+/-5%	+/- 1%
C3	3 %	+/-5%	+/- 1%
iC4	1 %	+/-10%	+/- 2%
nC4	1 %	+/-10%	+/- 2%
iC5	0.5 %	+/-10%	+/- 2%
nC5	0.5 %	+/-10%	+/- 2%
N ₂	1 %	+/-10%	+/- 2%
CO ₂	1 %	+/-10%	+/- 2%

Mixture Specifications

1.2.1 Cylinder: Standard gas mixture of PRIMARY REFERENCE GAS MIXTURE STANDARD (Primary reference gas mixtures (PRGMS)) or SECONDARY REFERENCE STANDARD and should be supplied in 10 litre aluminium can/cylinders with proper connection (IS 3224) with Gas Mixture Pressure of about 100 to 120 psi. The price of the gas mixture should be included in the main equipment.

Stability of Gas Mixture: 12 TO 18 months from the date of delivery

Composition: All units are in Mole %

Measurement of uncertainty is required against each component in line with ISO: 10723

The supplier should be Accredited Laboratory in accordance with ISO/IEC 17025:2005 equivalent to NABL India / UKAS, UK for both CALIBRATION AND TESTING for Natural Gas by accurate E1 CLASS STANDARD ONLY.

The Supplier should submit Performance Evaluation Certificate in accordance with ISO -10723 for their online Gas Chromatograph which they use for analysis and calibration of Natural Gas Mixture.

Traceability Certificate: (along with Chromatograms for the run) from NABL India / UKAS, UK OR equivalent accredited laboratories and essentially traceable to National / International standard. Each mixture composition should be of Primary reference gas mixtures (PRGMS) that are certified and issued by NABL (or equivalent in the chain of ILAC) accredited Lab or NMI, NPL India Or NPL UK, preferably calibration certificate should bear the logo that certifying agency NABL/UKAS ISO/IEC 17025:2005, certified copies of certificates /scope of accreditation provided by the accreditation agencies should be provided.

Preparation Method: Gravimetric Method as per ISO 6142 using most accurate E1 class

Method of analysis: As per ISO 6143:2001
Traceable weights, the weights must be traceable to NPL.

Test Certificate (meeting requirement of NABL) for the standard gas to be submitted along with the Cylinder.

Calibration Mixture certificate must have the following information.
The contents of the certificate shall include information described in ISO guide 31: 1996 and should provide the following as a minimum:
Identity of the producer & identification of the reference material
Description of the material & its use
Instruction on the correct use of the material
The assigned property values & the methods used to derive those values
Date of certification & the period of validity of the certificate
Safety instructions
An indication of the level of homogeneity of the material
Signature & names of the certifying officers signing the analysis certificate
Traceability & statement of uncertainty level at a state level of confidence
Mole% of components
Cylinder number
Gas pressure
Stability period
Minimum pressure of utilization
Impurities shall also be indicated in the certificate

1.3 ZERO AIR(COMPRESSED AIR) GAS GENERATOR FOR GC APPLICATION : 1No

Make : Parker-Balston
Model: HPZA-3500

OR

CLAIND Make:
Model: ZERO AIR 5

OR

Equivalent to the specification of Zero Air Gas Generator

SPECIFICATION of ZERO AIR GAS GENERATOR :

Portable Microprocessor controlled ultra fine pure Air Generator with oil free air compressor and hydrocarbon purifier .

Principle: Selective removal of N₂, moisture, hydrocarbon and other trace gases from compressed air by using selective adsorption method

Air flow rate: 3500 cc per minute (using catalytic oxidation process)

Purity of air: 99.9995% ATP

Outlet pressure: 0 to 10 Bar(max)

Outlet hydrocarbon removal concentration: < 0.1 ppm (as Methane) by catalytic oxidation

Particles < 0.01 micron

Moisture Content: < 1 ppm

Electrical Requirement: 230 V 50 Hz 3.5 amps with 5A Indian type plug

Pneumatic Connections: For air inlet : G1/8inch female

Purified Outlet: G1/8inch female

Air compressor: Internally built.

Physical Dimension: Compact unit, handy and portable ,bench top placing.

1.4 GAS PURIFICATION PANNEL:

Gas purification channel like
Oxy trap & Moisture trap for Helium gas,
Gas Cleaner (Hydrocarbon trap and Moisture Trap) for Zero Air
Oxy Cleaner ,Moisture trap for Nitrogen

1.5 5KVA UPS

2.SCOPE OF SERVICE:

2.1 Installation & commissioning of all vendor supplied items at Chemical Laboratory, Oil India Limited,Duliajan,Assam

2.2 Any other item other than specified in SCOPE OF SUPPLY , if required, to complete the installation and functioning of the system in all respect.

2.3 Post warranty 4 years Comprehensive AMC(including spares and consumables) as per tender clause.

TECHNICAL SPECIFICATION & GENERAL REQUIREMENTS OF THE GAS CHROMATOGRAPH (GC):

3.1 Type: Microprocessor based automatic Gas Chromatographic Station with PC based humane machine interfacing console for configuration, calibration, operation.

3.2 The Instrument should comply with the scope of GPA2261/ASTM D1945

3.3 No of Analytical Path: The Gas Chromatograph (GC) should be one channel configured with thermal conductivity detector only.

3.4 Display & Key Pad: Inbuilt LCD type Display unit along with soft/membrane key pad capable of configuration and viewing of all parameters of the GC.

3.5 Operating Power Supply: 230V AC, 50Hz

3.6 Range of testing in (Mol %):

Composition	Minimum (Mole %)	Maximum (Mole%)
N2	0.01	100
O2	0.01	10
C6+composite	0.01	2
Propane	0.01	10
i-Butane	0.01	10
n-Butane	0.01	10
Ethane	0.01	10
Methane	0.01	100
CO2	0.01	30
i-Pentane	0.01	10
n-Pentane	0.01	10

3.7 The GC unit shall be constituted of the following subsystems.

- Sample injection port
- Column oven
- Columns and valves
- Detectors
- Electronic Pneumatics Control (EPC)
- Data handling, acquisition & reporting system.

3.8 General requirements of sample injection system:

- 3.8.1 The system should have gas injection facility through gas sampling valve
- 3.8.2 It should have a sample loop purge feature to prevent contamination from liquid to gas or gas to liquid samples.
- 3.8.3 Necessary Particle filter should be in the inlet line(minimum 2 filters)
- 3.8.4 Valves used in the GC must be from Valco or equivalent reputed manufacturers.
- 3.9 General requirements of column oven:
- 3.9.1 Temperature range: should be +5 deg.C above ambient to +450 deg.C
- 3.9.2 The column oven should have programming facility with selectable better quality ramps(Ramps 4 or above is preferable).
- 3.9.3 The temperature programming rate should be selectable up to at least 40 DegC / min in 0.1 increment.
- 3.9.4 There should be over heat protection for column, one user settable.
- 3.9.5 Oven cooling Rate: 450 Deg C to 50 Deg C within 5 minutes
- 3.10 General Requirements of Columns and Valves:
- 3.10.1 Column system should be of a multidimensional GC with Packed column only suitable to separate all the hydrocarbon components of Natural gas as mentioned above , fixed gas like N₂, O₂ (if present) and simultaneously the polar components like CO₂ in Natural Gas
- 3.10.2 Column configuration and Valve operation should be designed so that the major components of the said Natural gas like Methane, Nitrogen and carbon-di-oxide peaks are well separated when present in percentage composition and the lowest boiling C₆ (2, 2-dimethylbutane) must be included in the back-flush on TCD channel. Distinct Separation and measurement of O₂ and N₂ individually is also a requirement.
- 3.10.3 To perform multidimensional analysis, the system should use suitable columns to carry out gas analysis from C₁-C₆+ with N₂, O₂ and CO₂ in one single GC run.
- 3.10.4 Rugged Long life Packed column as per ASTM method.
- 3.10.5 The offered columns should be such that they do not get degraded by water, water vapour moisture, ammonia gas or other common contaminants.
- 3.10.6 Preferably Column Program temperature should be isothermal.
- 3.10.7 All the peaks should be separated with isothermal program which provides constant baseline.
- 3.10.8 One Automated 6 Port valve for Gas Sampling and 6 port valve column by pass
- 3.10.9 Automatic Pneumatic activation of valves interfaced
- 3.10.10 Sample loops for 0.25cc to 1cc
- 3.10.11 All the Valves should be from Valco or equivalent make
- 3.11 General Requirements of Detector:
- The detector(s) should be installed in GC, not in the external oven. The instrument should have TCD detector modules, installed and operated with temperature and pneumatic control.
- 3.11.1 Thermal Conductivity Detector(TCD):
- 3.11.1.1 The TCD should be capillary compatible having single or multi column compensation design.
- 3.11.1.2 Operating temperature: upto 450 deg. C in 1 deg.C increment.
- 3.11.1.3 Linearity dynamic range : >10⁵.
- 3.11.1.4 Detectivity: 400 pg tridecane /ml or 1 ppm of nonane or equivalent with Helium Carrier .
- 3.11.1.5 There should be separate filament for sample and reference
- 3.11.1.6 Filament protection: Self limiting and resting after transient over load along with software protection for filament burn out.
- 3.11.1.7 All other performance characteristics like sensitivity, minimum directivity, noise, drift, response, effective volume should be as per those specified in ASTM standard /GPA standard.
- 3.12 Electronic Pneumatics Control (EPC)
- 3.12.1 Atmospheric pressure compensation sensor to compensate for altitude and ambient temperature variation
- 3.12.2 Pressure adjustments by increments of 0.1psi
- 3.12.3 Carrier and other required gas settings selectable
- 3.12.4 Pressure sensors: Accuracy: <+/- 2% full scale, Repeatability: <+/- 0.05 psi,
- 3.12.5 Temp. Co-efficient: <+/- 0.001 psi/deg C

3.13 General Requirements of Data Handling Chromatographic Software

3.13.1 Latest software should be Windows 7 operative.

3.13.2 The offered software shall be the Original Full version single user license software. Software should be quoted with Part number.

3.13.3 The software should be able to analyze natural gas using all channels of the instruments by simultaneous injection of the sample in the channels through GSV

3.13.4 Peak Identification requirements:

3.13.4.1 Individual and group peak identification

3.13.4.2 Drag and drop peak identification

3.13.5 Calibration facilities required:

3.13.5.1 Single level, Bracketing, Multilevel Calibration as per ISO 6976

3.13.5.2 Use of Absolute and relative response factors

3.13.6 Calculations as per ISO 6976/ASTM D1945

3.13.7 Management Procedures:

3.13.7.1 Traceability of Analysis and Calibration, Trend Analysis, Approval of Analysis.

3.13.7.2 LIMS Connectivity

3.13.7.3 Remote diagnostics

3.13.7.4 Can be able to store different 3 to 4 storage methods

3.13.8 The offered GC should have internal memory. In case of PC crashed data should not be lost. The software should have interface with memory for data security.

3.13.9 The software should take control of the instrument for the analysis of Natural gas and should comply with ASTM- D1945. Through this software, the analyzer should be able to analyze the Natural gas from C1 to C6+ (composite) including N2, O2, and CO2 in one single GC run. After the sample is analyzed, the data must be checked to determine its validity and the quality of the analysis which was performed. The unnormalized total of the molecular percentages of compounds analyzed should be within plus or minus one percent of one-hundred percent.

3.13.10 There should be a provision for back-flush from the packed column of the instrument after the elution of C5 using software commands.

3.13.11 Accurate Calculation of Gas Properties: Following points shall be considered.

i. Automatic results calculations and reporting.

ii. ASTM D1945, ISO 6976, GPA 2261 or equivalent

iii. Software should also include calculations for Oxygen correction.

iv. Software should be able to convert mole % to vol. %, and weight%. It should have the facility for data integration and automatic calculation of Specific Gravity, Calorific value, Sp heat etc from the chromatographic composition with proper unit such as BTU, K Calorie, Joule etc.

3.13.12 The software should be able to acquire data from the detectors and should have a single point control of all gas chromatographic parameters.

3.13.13 The software should have the facility for interactive graphics, tool bar facility for online editing, recalculation, batch data processing, overlay, peak integration, programmable integration control, baseline compensation, options for continuous averaging of calibration data, weighted regression etc..

3.13.14 Should have facility to recall multiple chromatograms simultaneously on the screen to compare the stored run with the current runs.

3.13.15 Should have Real time display of all chromatograms.

3.13.16 Software should have the facility to give the analysis report of Natural gas from the channels into an integrated single report as per the methods. The software should also have user program facility to generate ISO and ASTM reports after a chromatographic run.

3.13.17 Report Generation: Following facilities should be in the software for report generation:

3.13.17.1. Customized report generation and calculations as per requirement.

3.13.17.2. The software should also have the facility to calculate and report dry and wet calorific value, compressibility factors, density, specific gravity fuel mass ratio, air based upon oxygen content and Wobbe Index number as per international standard procedure. The international standards should be clearly indicated in the report.

3.13.17.3. LIMS Compatibility, LAN Compatibility, User-friendly reporting formats and conversion to spread sheets and transmissions to other computers should be possible. Ethernet port for LIMS connection & unit networking. RS 232C port LIMS connection & USB port for external printer. Necessary software for LIMS compatibility to be offered.

3.14 General specification of PC based data acquisition, analysis and report generation station:

3.14.1 The offered system PC should have the following specifications or latest configuration available at the time of bidding:

3.14.1.1. Operating System: Genuine Microsoft Windows 7 Professional 32-Bit licensed, latest SP and recovery media;

3.14.1.2 Processor Type : Intel Core i5 or above, 2.6 GHz, 6 MB Smart Cache ;

3.14.1.3 Standard memory : DDR3L-1333,1600

3.14.1.4 (Optical drives : Internal OEM DVD Writer;

3.14.1.5 Audio: Internal PC speaker;

3.14.1.6 External I/O ports : Minimum 6 USB 2.0(2 Front,4 Rear), 1 serial, 1 parallel, 1ps/2, 1 RJ-45, 1VGA, Audio in/out, Microphone In;

3.14. 1.7 Expansion slots : 1 full-height PCI, 1 PCI Express x 16,Low PCI Express x1;

3.14. 1.8 Network Interface: Integrated 10/100/1000 Ethernet Network Connection with RJ45;

3.14. 1.9. Keyboard : 104 or above Standard keyboard - same make;

3.14. 1.10 Pointing Device : Optical Scroll Mouse - same make;

3.14. 1.11 Monitor : Minimum 21" Wide TFT Digital Color Monitor with resolution 1024x768 - same make;

3.14. 1.12. Accessories: Cables, Manuals, software to be provided with PC

3.14. 1.13 Make: HP / Lenovo/ Acer/ Dell

3.14.2 Colour printer complete with all accessories including driver CD, printer cable and printer cartridge to be supplied along with the system.

3.15 Additional facilities required:

3.15.1 Automatic Carrier Gas, air and sample gas flow control for each channel. The set points required for control of the said parameters can be set through PC based analytical software/LCP key pad

3.15.2 The GC should be capable of independent operation of channel.

3.15.3 Auto adjustment of carrier gas flow to compensate for variation in ambient temperature and pressure.

3.15.4 GC should have extensive self diagnostic facility and auto shut down facility in case of leaks in carrier gas.

3.15.5 Suitable configuration to detect the Carbon Monoxide(CO) and Carbon Carbon dioxide(CO₂)

3.15.6 The instrument should have full range of programmable pneumatic control system for all type of columns, detector, injector and auxiliary lines with facility for direct setting and control of parameters from PC/key board including the carrier gas pressure, carrier gas liner velocity, and split ratio.

3.15.7 The GC with appropriate application specific columns and automated valves for analyzing gas from C₁ to C₆+ along with N₂, O₂ and CO₂, in one single GC run, in 20 ± 5 minutes. Instrument should be ready for next injection within 15 - 25 minutes, including the cool down time.

3.15.8 The offered GC shall be fully factory integrated along with all the necessary hardware plumbing, configuration and testing of the same shall be done only at the original GC manufacturing site. Plumbing or testing should not be done other than original manufacturing site. Original Equipment Manufacturer (OEM) to provide necessary configuration, test and calibration certificates along with the GC.

3.16 Documentation:

Bidder to supply following documents along with the GC

- 3.16.1 one set of hard copies of operation, maintenance & service manuals each.
- 3.16.2 one set of soft copy documentation in the form of Compact Disc(CD) are to be supplied along with the instrument
- 3.16.3 one set of hard copies having details of the microprocessor along with manuals, terminal drawing and details of all the electronic components used.
- 3.16.4 one set of hard copies having details of trouble shooting / guide for fault rectification in the microprocessor /electronic system.

General Notes to bidders:

1. The items listed in the scope of supply and scope of services are only minimum indicative requirement. Vendor shall supply the main equipment with all other supportive items such as Standard gas calibration mixture, Zero Air Generator, gas purification panel, 5KVA UPS, computer with key board including software and hardware, colour printer to meet the required functionalities of the GC mentioned in this tender document and to complete the job successfully.
2. All accessories and Standards mentioned above should be separately quoted. However, the quoted price will be considered for price bid evaluation.
3. The quoted GC should be of latest proven model as on date of submission of offer and the year of launching of the offer model should not be more than 5 years old from the date of bid closing date of the Tender. No refurbished built system other than original manufacturer's yard will be accepted. Bidder will be required to submit a list of customers to whom the same system has been supplied in India & Abroad and is being used for similar analysis purpose. E-mail ID of contact person, verifiable purchase order number and any other details for verification purposes are required to be submitted with bid.
4. List of consumables/ spares are to be quoted separately and the price of such spares and consumables are not be considered while evaluating the bid techno-commercially.
5. Bidder should provide all accessories/spares for initial commissioning free of cost along with the main equipment.
7. Supplier must provide repair kit of the equipment free of cost.
8. Authorized agent or a permanent office of the vendor with service facilities to be available in India. Bidders without this will not be considered for evaluation.
9. The offered GC should have all the design feature requirements as indicated in the ASTM/IP/ISO methods
10. Valve Diagram with column should be attached along with the quote. Factory certified schematic diagram, and confirmation of desired application along with bid.

- 11.The vendor should submit the test report of analyzer (CHROMATOGRAM) directly faxed from the original GC manufacturing Site.
- 12.The vendor should dispatch the GC from the factory or country of origin only after getting the acceptance certificate/letter.
- 13.Original Port of shipment document with serial number of the equipment should be provided prior to dispatch.
- 14.Warrantee / Guarantee : The Vendor shall provide minimum 01 year (excluding the outage period) warranty to the offered items starting from the date of successful completion in OIL premises. During warranty period if any item of the offered systems fails or performance of the offered systems are not satisfactory, vendor has to replace/rectify the same within 30 days from the date of intimation by OIL, without any financial implication to OIL including courier charges, transportation and taxes for supplying the spares upto OIL premises to be borne by the vendor. In case of failure on the part of the successful bidder to rectify a fault of supplied items / equipment or software, within 30 days of reporting the problem, a penalty at the rate of 0.5% per day will be imposed till rectification of fault, subject to a maximum of 7.5% of the total value of the order. For any delay beyond 45days, the warranty period for all the items shall be extended on a pro-rata basis.
- 15.All visits (including transport to and from Duliajan and accommodation at Duliajan) by bidders personnel for warranty related work shall have to be borne by the successful bidder.
- 16.Technical support: Vendor shall support the offered system for minimum 10 years after successful commissioning by providing prompt action in any type of technical issues, modification, spares etc.
- 17.System license: The system with all functionalities shall be licensed to OIL usage after the successful commissioning. Vendor to handover license copy of all installed software after successful commissioning of the system.
- 18.Software upgradation: If any software upgradation required / released for the supplied system after the expiry of warrantee of the system, same shall be supplied to OIL by vendor free of cost without any price implication.
- 19.Inspection & test certificates: Vendor shall submit the inspection and test certificates, calibration reports traceable to applicable national and international standards for purchaser's review.

20. Installation and Commissioning of supplied system: Installation and commissioning of the total system is in vendor's scope. Vendor is to consider the following points in respect of installation and commissioning activities.

21.0 Commissioning schedule:

21.1 After the receipt of the materials at OIL site, vendor shall mobilize required manpower / tools / machineries etc. to execute the installation and commissioning jobs at OIL site.

21.2. Vendor to provide all consumables and test standards required for commissioning of the system at OIL site along with the equipment.

21.3 Calibration:

21.3.1 For calibration purpose the bidder should supply one natural gas calibration gas mixture and one liquid gas calibration mixture as per the specification mentioned in the scope of supply .

24.2 The guaranteed calibration frequency of the Instrument must be indicated by the bidder. If the calibration goes out during this period the bidder has to rectify it at his own cost. The calibration procedure should be very clearly indicated in the tender.

24.3 Calibration if required to be done only by the manufacturer and it should be ensured during the visit for comprehensive AMC.

25. Training:

25.1 Vendor shall organize onsite training to OIL Employees/executives covering all aspects of operation and maintenance of the instruments after successful commissioning of the equipments.

25.2 The training period shall be at least four to five days covering both for operation and maintenance.

25.3 A manual should cover all aspects of normal operation, maintenance, trouble shooting, do, don'ts etc.

27. Comprehensive Annual Maintenance Contract (AMC):

The comprehensive AMC cost after post warranty period shall be taken into consideration for bid evaluation.

- 27.1 The party has to provide the year wise cost break up for Comprehensive AMC for four years (yearly 2 visits) and the total 4 year cost of 8 visits for comprehensive AMC should not be more than 15% of the cost of main equipment .
- 27.2 Bidder shall also provide the separate lists of consumables/spares which are included in the supplier's scope in comprehensive AMC and which are not in supplier's scope.
- 27.3 Contractual Period: In case OIL exercises the option to enter into comprehensive AMC with the bidder, a separate contract agreement shall be made between the bidder and OIL for the AMC with the above terms and conditions after completion of 1 year period of warranty.
- 27.4 Types of visit: There will be two types of visit to OIL site - Normal and Emergency visit. One competent engineer from the bidder has to visit Duliajan at least once in 6 months for preventive and corrective maintenance of all supplied equipment including software upgradation.
- 27.5 Normal (Preventive) visit: To check the normal healthiness of the system and attending problem reported by OIL. Also vendor to carry out any software upgradation or configuration of existing hardware/software, if felt necessary, as per OIL's requirement. Such a visit shall be planned on a mutually agreed schedule.
- 27.6 Emergency visit: There will be no limit for emergency visit. To attend any emergency situation reported by OIL, vendor shall mobilize their competent engineer to OIL site within one week of the intimation.
28. Accommodation: All visits (including transport to and from Duliajan and accommodation at Duliajan) by bidders personnel for AMC related work shall have to be borne by the successful bidder.
29. Local conveyance shall be provided by OIL at Duliajan.
30. Payment terms: Pro rata basis against the submitted invoice after the completion of each visit.
31. Deviation from purchaser's requirement: Bidder shall be specific to OIL's requirement and shall offer as per OIL's terms & conditions and requirements. If there is any deviation, bidder shall indicate the deviation clearly with sufficient justification. Not indicating any deviation by the bidder shall be considered as full acceptance of the OIL's terms & conditions

Special Notes:

1. The items shall be brand new, unused & of prime quality. Bidder shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 12 months from date of receipt at site or 18 months from the date of shipment/despatch. The defective materials, if any, rejected by us shall be replaced by the supplier at their own expense on FOR Destination basis. Bidders must confirm the same while quoting.
2. To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.
3. Other terms and conditions of the tender shall be as per "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). However, if any of the Clauses of the Bid Rejection Criteria (BRC) / Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.
4. The items covered by this tender shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/01/2005 enclosed. However no Recommendary letters will be issued to Indian Bidders.

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BID REJECTION CRITERIA (BRC)/BID EVALUATION CRITERIA (BEC)

In addition to BRC/BEC criteria vide SECTION – ‘D’ of General Terms and Conditions for Global Tender (MM/ GLOBAL/E-01/2005), the following clause will be applicable against this tender.

The bids shall conform to the specifications, terms and conditions given in the tender. Bids shall be rejected in case the item(s) offered do not conform to technical specifications and to the respective international / national standards wherever stipulated.

Notwithstanding the general conformity of the bids to the stipulated specifications, and terms & conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected. All the documents related to BRC must be submitted along with the technical bid.

A) TECHNICAL:

1.0 BRC /BEC (Technical) - Qualification

1.1 The bidder shall be an Original Equipment Manufacturer of the tender item(s), or shall be an authorized dealer/distributor/ supply house of an Original Equipment Manufacturer of the tender item(s) having valid authorization letter/dealership certificate with warranty/guarantee back up from the principal (OEM). Copy of authorization letter/dealership certificate with warranty/ guarantee back up from the principal (OEM) shall be submitted along with the technical bid.

2.0 BRC/BEC (Technical) - Experience

2.1 In case the bidder is an Original Equipment Manufacturer of the tender item(s),

2.1.1 The bidder shall have experience of successful execution of past supply of tender item(s) for minimum twice the nos of tender quantity in last 5 years preceding the original bid closing date of the tender.

2.2 In case the bidder is an authorized dealer/distributor/supply house,

- 2.2.1 The OEM (principal) shall fulfill the experience criteria mentioned in clause 2.1.1 mentioned above.
- 2.2.2 Additionally, the bidder himself shall have experience of successful execution of past supply of tender item(s) at least equal to tender quantity in last 5 years preceding the original bid closing date of the tender.
- 2.3 The bidder shall submit documents in support of his previous supply experience and of the principal (OEM), as applicable under clause 2.1.1, 2.2.1 & 2.2.2, as follows:
- (i) Copy(ies) of Purchase Order(s) and
 - (ii) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s) -
 - Satisfactory completion report / performance certificate from the clients,
 - Satisfactory Installation/Commissioning/Inspection Report
 - Bill of lading,
 - Delivery challan / invoice etc.
 - any other documentary evidence that can substantiate the successful execution of each of the Purchase Order(s) / contract(s) cited above.
- 2.4 The bidder should have authorized service centre in India for providing after sales service and support.

(B) COMMERCIAL:

- 1) Commercial Bid Rejection Criteria will be as per Section D of General Terms & Conditions of Global Tender (MM/GLOBAL/E-01/2005) with following Special Bid Rejection Criteria.
 - 2) Bids are invited under **Single Stage Two Bid System**. Bidders shall quote accordingly under Single Stage Two Bid System. **Please note that no price details should be furnished in the Technical (i.e. Unpriced)bid.** The "Unpriced Bid" shall contain all techno-commercial details except the prices, which shall be kept blank. The "Price Bid" must contain the price schedule and the bidder's commercial terms and conditions.
Bidder not complying with above submission procedure will be rejected.
- 2.0 **Bid security of US \$ 1,735.00 or Rs. 118,000.00** shall be furnished as a part of the TECHNICAL BID (refer Clause Nos.9.0 & 12.0 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders)).**Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration.** A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

- 2.1 For exemption for submission of Bid Security, please refer Clause No. 9.8 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).
- 2.2 The Bank Guarantee towards Bid Security shall be valid upto **18.05.2017**.
- 3) Validity of the bid shall be minimum 180 days from the date of Bid Closing Date. Bids with lesser validity will be straightway rejected.
- 4) Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of 12(twelve) months from the date of successful commissioning against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.
- 5) Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for 12(twelve) months from the date of successful commissioning. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected
- 6) Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below :
- (i) **Price Bid Format (SUMMARY) for Foreign Bidders :**
- (A) Total Material Value :
- (B) Packing & FOB Charges :
- (C) Total FOB Port of Shipment value, (A + B) above :
- (D) Overseas Freight Charges upto Kolkata, India :
- (E) Insurance Charges :
- (F) Total CIF Kolkata value, (C + D + E) :
- (G) Installation/Commissioning Charges including Service Tax (if any) :
- (H) Training Charges including Service Tax (if any) :
- (I) Total Value,(F+G + H) :
- (J) AMC Charges for 04(four) years including Service Tax after warranty :
- (K) Grand Total Value including above (I+J) :
- (L) Grand Value in words :
- (M) Gross Weight :
- (N) Gross Volume :
- (ii) **Price Bid Format (SUMMARY) for Indigenous Bidders:**
- (A) Total Material Value :
- (B) Packing and Forwarding Charges:
- (C) Total Ex-works value, (A + B) above :
- (D) Sales Tax, (Please indicate applicable rate of Tax)
- (E) Total FOR Despatching Station price, (C + D) above
- (F) Road Transportation charges to Duliajan
- (G) Insurance Charges

- (H) Assam Entry Tax
- (I) Total FOR Duliajan value, (E + F + G + H) above
- (J) Installation/Commissioning Charges including Service Tax (if any) :
- (K) Training Charges including Service Tax (if any) :
- (L) Total value, (I+J+K) above :
- (M) AMC Charges for 04(four) years including Service Tax after warranty :
- (N) Grand Value including (L+ M)above :
- (O) Grand Value in words :
- (P) Gross Weight :
- (Q) Gross Volume :

- 7) The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.
- 8) Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.
- 9) Bids containing incorrect statement will be rejected.
- 10) Offers should be submitted with Integrity Pact duly signed by the authorized signatory of the bidder. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact with the offer, their bid shall be rejected straightway.

(II) BID EVALUATION CRITERIA (BEC) :

Bids conforming to the specifications, terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria mentioned in Section D of "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005.

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ANNEXURE-C**(A) COMMERCIAL CHECK-LIST**

Sl. No.	PARAMETERS/REQUIREMENTS	BIDDER RESPONSE	REMARKS IF ANY
1.	Whether Original Signed quotation submitted?	YES/NO	
2.	Whether quoted as manufacturer?	YES/NO	
3.	Whether quoted as authorized dealer? [To Specify]	YES/NO	
4.	If quoted as authorized dealer,		
5.	(a)Whether submitted valid and proper authorization letter from manufacturer IN ORIGINAL confirming that bidder is their authorized dealer for the product offered?	YES/NO	
6.	(b)Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	YES/NO	
7.	Whether ORIGINAL Bid Bond (not copy of Bid Bond) enclosed with the offer? If YES, provide details	YES/NO	
	(a) Amount :		
	(b) Name of issuing Bank :		
	(c) Validity of Bid Bond :		
8.	Whether offered firm prices?	YES/NO	
9.	Whether quoted offer validity of 120 days from the date of closing of tender?	YES/NO	
10.	Whether quoted a firm delivery period?	YES/NO	
11.	Whether quoted as per NIT (without any deviations)?	YES/NO	
12.	Whether any deviation is there in the offer?	YES/NO	
13.	Whether deviation separately highlighted?	YES/NO	
14.	Whether agreed to the NIT Warranty clause?	YES/NO	
15.	Whether Price Bid submitted as per Price Schedule?	YES/NO	
16.	Whether indicated the country of origin for the items quoted?	YES/NO	
17.	Whether all the items of tender quoted?	YES/NO	
18.	Whether technical literature/catalogue/drawings enclosed?	YES/NO	
19.	For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?	YES/NO	
20.	For Foreign Bidders – Whether port of shipment indicated? [To specify]	YES/NO	
21.	For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?	YES/NO	
22.	Whether Indian Agent applicable?	YES/NO	
	If YES, whether following details of Indian Agent provided?		
	(a) Name & address of the agent in India – To indicate		
	(b) Amount of agency commission – To indicate		
	(c) Whether agency commission included in quoted material	YES/NO	

	value?	
23.	Whether weight & volume of items offered indicated?	YES/NO
24.	Whether confirmed to submit PBG as asked for in NIT?	YES/NO
25.	Whether agreed to submit PBG within 30 days of placement of order?	YES/NO
26.	For Indian bidders – Whether place of dispatch indicated in the offer? [To specify]	YES/NO
27.	For Indian bidders – Whether road transportation charges up to Duliajan quoted?	YES/NO
28.	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	YES/NO
29.	For Indian Bidders only - Whether offered Deemed Export prices?	YES/NO
30.	Whether quoted prices are exclusive of Excise duty?	YES/NO
31.	For Indian bidders only – whether import content indicated in the offer?	YES/NO
32.	For Indian Bidders only - whether all Taxes have been indicated categorically?	YES/NO
33.	Whether all BRC/BEC clauses accepted?	YES/NO

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