



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

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Tender No. & Date: SDG0292P16/07 dt. 19.02.2016

Tender Fee : INR 4,500.00 OR USD 100.00

Bid Security Amount : INR 2,55,000.00 OR USD 3,750.00

Bidding Type : SINGLE STAGE TWO BID SYSTEM

Bid Closing on : 20.04.2016 (at 11.00 Hrs. IST)

Bid Opening on : 20.04.2016 (at 14.00 Hrs. IST)

Bid Validity : Bid should be valid for 180 days from bid closing date.

Bid Bond Validity : Bid Bond should be valid up to 20.04.2017.
(Bid bond format has been changed. Please submit bid bond as per revised format)

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No. / Mat. Code	Material Description	QTY.	UOM
1	Supply & Commissioning of Crude Oil Composition Analyzer as per the following: 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 13.00 HRs on Bid Closing Date mentioned in the Tender.
 - a) **Original Bid Security along with two 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 Monitor at present is as under:

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

Special Notes:

1. The original equipment manufacturer (OEM) should confirm in writing that the spares for the quoted model will be available for a period of ten years after installation of the instrument.

In case the OEM is bidding through an Indian agent, the OEM should give a written undertaking that they will be responsible for providing the warranty and annual maintenance as per the clauses mentioned, even if there is a change in the Indian agency of the manufacturer. The undertaking from OEM should also include that, if in future, OEM does not have any Indian agency, the service will be provided directly by the service engineer of the OEM without any extra charge.

2. Printed documents in support of claimed specification should be provided.

3. System should be upgradeable at site for future applications.

4. Spares required for two years of operation should be quoted by the bidder however the same will not be considered for bid evaluation.

5. **Manuals:** One set of operating manual and service manual (in English) should be provided with the instrument

6. Installation and Commissioning:

(i) The equipment should be installed and commissioned by the successful bidder at Oil India Ltd. Duliajan, Assam, India. The software vendor's personnel must demonstrate the performance of the systems during installation of the software and step-by-step operational guidance /training should be provided to the users right after the successful commissioning of the equipment.

(ii) Installation and Commissioning charges, if any, must be quoted separately on lump sum basis which shall be considered for evaluation of the offer. Offers without indicating the Installation/Commissioning shall be treated as incomplete and non-responsive. Bidders shall confirm about the installation, commissioning while quoting. Any, pre-installation requirements are to be clearly indicated in the offer.

- (iii) While quoting installation and commissioning charges, bidder should take into account all charges including to and fro fares, boarding/lodging, and other daily expenses of the commissioning personnel. OIL may provide accommodation on chargeable basis subject to availability. Income, Service, Corporate Taxes etc., if any, towards Installation/Commissioning will be to supplier's account and will be deducted at source.
- (iv) Offers without indicating the Installation/Commissioning charges shall be loaded with the maximum installation/commissioning charges received against this tender for evaluation purpose.
- (v) Moreover, if Income/Service taxes are not categorically mentioned in their offer, then such offers shall be loaded with the applicable rate of taxes for evaluation purpose.

7. Warranty:

The complete instrument should be under warranty for a period of 01 (one) year from the date of installation. In case of breakdown during the warranty period, a competent service engineer of the supplier should make as many visits as are necessary to rectify the instrument. The supplier should provide any spares required for making the instrument operational.

- 08. 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.
- 09. The items covered under this enquiry shall be entitled for Customs/ Central Excise duty exemption in terms of Govt. notification No. 24/2007(Sl.No.2) Customs dated 01/03/2007 and Central Excise duty Exemption in terms of Govt. notification No. 16/2007-(Sr. No. 2) Central Excise dated :01.03.2007 as amended from time to time.
- 10. 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.

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SPECIFICATION OF THE ITEM**TECHNICAL SPECIFICATIONS OF CRUDE OIL COMPOSITIONAL ANALYSER**

PVT Laboratory of Chemical Department in Oil India Limited is associated in phase behavior studies of Sub surface/ surface recombination of oil-gas and gas-condensate samples. The Laboratory is in need of crude oil compositional analyzer for the analysis of whole crude oils and condensates. The analyzer should be a latest model / version from a reputed manufacturer.

1.0 SCOPE & APPLICATION:

The oil analyser should be able to analyse

1.1 Analysis of crude oil samples for complete hydrocarbon components from low end components (Detailed Hydrocarbon Analysis C1-C9) as per ASTM D7169 Annexure X1 and SimDist analysis (from C5 to C99+) as per ASTM 7169. Software should integrate the output of both analyses to get complete crude oil analysis (Carbon number Mole % profiling). The output should give mole fractions of carbon numbers from C1 to C36 and lumped C36+. The analysis should take into account all the eluting compounds. Given software should also give the complete distillation profile.

1.2 Separate method of Analysis of condensate samples (without residue) for complete hydrocarbon components having carbon number up to C25 in a single run in Front end GC. Software should give the mole fractions of carbon numbers from C1 to C25 using ASTM 5134 column. The analysis should take into account all the eluting compounds. Given software should also give the Carbon Number Mole % profile.

2.0 GENERAL FEATURES:

2.1 The equipment should be complete and fully functional in all respects.

2.2 The Analysers (GC) should be microprocessor based Gas Chromatographic system with modular design, built in control panel with LCD/LED display and key board or touch screen or setting & control of all the operation, detector parameters, temperature programming as well as method creation and storage with battery backup.

2.3 The system should have an exhaustive auto-diagnostics including status of GC controls, memory checks, probe checks, pneumatics checks, heated zones and online diagnostics during analysis with immediate warning messages and display.

2.4 Analysis of crude oil samples for complete hydrocarbon components from Lighter end components (Detailed Hydrocarbon Analysis C1-C9) as per ASTM D7169 Annexure X1 and SimDis analysis (from C5 to C99+) as per ASTM 7169. Software should integrate the output of both analyses to get complete crude oil analysis (Carbon number profiling). The output should give mole fractions of carbon numbers from C1 to C36 and lumped C36+. The analysis should take into account all the eluting compounds. Given software should also give the

complete distillation profile. Analysis of condensate samples (without residue) having carbon number up to C36. Given Software should calculate the mole fractions of carbon numbers from C1 to C36 and lumped C36+. The analysis should take into account all the eluting compounds. Given software should also give the distillation profile.

2.5 The analysers must have independent temperature control for all the heated compartments such as oven, injector and detectors etc.

2.6 It should have facility for automatic background corrections to take care of baseline drift.

2.7 All the wetted and non-wetted parts should be corrosion resistant as well as of rust proof.

2.8 The system should be fully factory Tested and the machine should be H2S resistance.

2.9 Fully License Software with License Sticker/ Number should be quoted for each Computer

3.0 Example report should be attached, which shows Merge (Lighter End and Higher End- 7169) in Mole% for Carbon number C1 to C36 and C36+ .

3.1 Performance Certificate of successful installation should be attached for technical qualification which should state the mole % report of C1 to C36 and C36+.

3.0 TECHNICAL FEATURES:

3.1 Overview of Crude Oil Analyser:

3.1.1 The analyser should be able to analyse complete hydrocarbon components present in oil ranging from low end components (front end DHA C1-C9) to higher end components (SIMDIS analysis for C5-C99+).

3.1.2 The output of both the analysis should be integrated to get a complete crude oil analysis (carbon number mole % profiling). The output should give mole fractions of carbon numbers from C1 to C36 and lumped C36+. The analysis should take into account all the eluting compounds.

3.1.3 The analysers should be designed to simulate the actual physical distillation of petroleum products as per the American Society for Testing and Materials approved methods (ASTM D 7169).

3.1.4 The front end DHA should have column as per ASTM D7169 Annexure X1, The higher end fraction should be back flush through Prefractionator inlet or swafer or Dean Switch as prescribed in ASTM D7169 Annexure X1.

3.1.5 The system should produce the DHA Data for C1 – C9+ as per ASTM D7169 Annexure X1. DHA Software should be provided.

3.1.6 It should have dedicated reference crude oil standard sample to establish and validate Crude Oil merge using DHA Front End and HTSIMDIS Analyzer.

3.1.7 It should have cryogenic cooling system using Liquid CO2.

3.2 High temperature SimDist

3.2.1 A) Column oven:

Temperature range: -40 degC to 450 deg C with cryogenic accessories.

The column should have programming facility for a minimum of 3 ramps. The oven temperature in 1 degC increment up to 450 deg C.

Oven temperature rate: 100 Deg C/min or more

There should be overheating protection circuits and Liquid CO₂ Cooling facilities.

3.2.1 B) Injector port: 2 no

PTV injector with liner or programmable on column injector/temperature programmable injector.

3.2.1 C) Detectors: FID 2 no

The instrument should have suitable FID having the minimum following specification:

i) Operating temperature range: up to 400 deg C in 1 degC increment

ii) Linear dynamic range: min 10⁶

iii) Minimum detectable limit: 3pg C/s or less

iv) Automatic flame-out detection and flame re-ignition

The instrument should have full electronic flow control for all gases and should give flame out warning and should have automatic flame ignition facility.

3.2.1 D) Column: As per ASTM 7169 along with guard column if it is on column injection and Second Channel as per ASTM D5442 Wax Profiling

3.2.1 E) Liquid Auto sampler:

Auto sampler to inject the sample into on-column / Liner

Sample capacity 50 vials or more

Should have different injection Speed

Should have Wash and Waste vials for cleaning of syringe.

Should have provision to inject both injectors without physical movement

3.2.2 SimDist Software: Licensed copy, latest version

Boiling Distribution report as per ASTM 7169

Reporting of residue in percent as per ASTM 7169

The output should give mole fractions of carbon numbers from C₅ to C₃₆ and lumped C₃₆+. The analysis should take into account all the eluting compounds.

ASTM methodologies to include: D6352, D7500 and D7169. Should produce the Wax profiling report as per ASTM D5442

3.3 DHA Front End Analyser:

Analyser should have DHA with Front End facility of back flushing the C₉ and above as per ASTM D7169 Annexure X1. Also analysis of condensate samples (without residue) having carbon number up to C₂₅, should report Mole % from C₁ to C₂₅ using ASTM 5134 column.

3.3.1 A) Column oven in DHA:

Temperature range: -40 degC to 450 deg C with cryogenic accessories.

The column should have programming facility for a minimum of 3 ramps. Oven temperature in 1deg C increment up to 450 deg C.

Oven temperature program 100 Deg C/min or more

There should be overheating protection circuits and CO₂ Cooling facilities.

3.3.1 B) Injector port/s: PSS/PTV – 2 nos

3.3.1 C) Detector/s: - FID- 2 nos

- i) Operating temperature range: up to 400°C in 1 deg C increment
- ii) Linear dynamic range: min 10⁶
- iii) Minimum detectable limit: 3pg C/s or less
- iv) Automatic flame-out detection and flame re-ignition

3.3.1 D) Column/s:

- i) As per ASTM 7169 Annexure X1
- ii) Column/s for analysis of the condensate sample – ASTM D5134

3.3.1 E) Liquid Auto sampler:

Auto sampler to inject the sample into the columns to be supplied with the system.

Sample capacity 50 vials or more

Should have different injection Speed

Should have for Wash and Waste vials for cleaning of syringe

Should have provision to inject both injectors without physical movement

3.3.1 F) Prefractionator Inlet /Swafer/Dean Switch:

Back flushing the higher fraction above C9 for front end application should be done by Swafer or Dean Switch or Prefractionator Inlet. Pre-configured and tested at factory.

3.4 Software for Analyser Licensed copy, latest version

Meets methodology requirements as described in ASTM Methods D5134, D6729, D6730 and D6733, ASTM D7169 Annexure X1

Quick database creation Reporting of Vapor pressure Detection of Oxygenate content Reporting of relative density

Reporting of Average molecular weight Calculated research octane number

Reporting of % carbon, % hydrogen

Reporting of Mass % and Volume % multi substituted ring aromatics

True boiling-point (TBP) distribution

Weight%, Volume %, Mole% of types by carbon number

Weight%, Volume%, Mole% of individual components

Gas chromatographic method for analysis of condensate sample.

3.5 Merge Software Licensed copy, latest version:

The merge software should be able to Merge the data of front End DHA C1- C9 and SimDis C9-C100 and produce the boiling point distribution. Reference Crude Oil standard sample results to establish Merge Principle and validate the Crude Oil Analysis.

The Merged output should also give mole fractions of carbon numbers from C1 to C36 and lumped C36+ including residue (whole crude oil). The analysis should take into account all the eluting compounds.

3.6 Data System:

Latest 32-bit software should be Windows 8 or higher operative.

Only Original Full version license software from the original manufacturer should be supplied along with the system.

The separate Main software license for the SIMDIS and DHA Analyser

The software should have all the operating controls for running the analysers.

The vendor should provide the original software license certificate from the original manufacturer.

The vendor should provide the latest version of the software along with the instruments and should provide guarantee for the free replacement of the same if new version of the software is introduced within the warranty period.

The software should carryout simultaneous analysis and report generation.

The report should have the chromatogram and the concentration of the individual components.

The vendor should provide MNC brand computer with an industry standard Intel i5 or better, 3 GB RAM, 500 GB DD, Windows 8 operating system or higher along with virus protection software, 19" TFT monitor and Laser jet color printer.

4.0. Standards and Certified Reference Materials

The Analyser should come with the following standards.

4.1 For High Temp. SIMDIS:

- * Boiling Point Calibration Standards C5 to C28, C6 to C44, 1 ml X 10 nos
- * Boiling Point Calibration Standards (C5-C120), 1 ml X 10 nos.
- * D2887 Reference Gas Oil (Light fraction), 1 ml X 10 nos
- * Reference Gas Oil 5010 (Heavy fraction), 1 ml X 20 nos
- * RGO (Lighter Fraction) 1 ml X 10 nos
- * Reference crude oil standard sample to establish Merge Principle and validate the Crude Oil Analysis. 1 ml X 10 nos
- * All the standards should have minimum 1 year validity.
- * Any other standard required.

4.2 For DHA Front End Analyzer

- n-Paraffin, isoparaffins, aromatics, olefins, naphthenes, Naptha mix mixture (0.1 ml*2 vials).
- ASTM D6730 Mix (1ml * 2nos) and other necessary column evaluation standard
- Peak Identification Standard, Naphtha Standard to establish back flush of prefractionator inlet etc. 1 ml X 5 nos
- Any other standard required.

5.0 **Essential accessories:**

5.1 Spares and Consumables: (Price will be part of techno-commercial bid)

The vendor should quote list of consumables listed below and all the spare parts required for smooth functioning of the equipment at least for two years. The vendor should clearly mention spare parts number, their description and unit price along with utility.

Material: Vendor to ensure that material of construction offered for equipment shall be compatible with specified operating conditions and parameters and shall be suitable for intended service except as required or prohibited by data sheet or relevant code & standards.

5.1.1 Consumable for SimDist:

1. All necessary consumable to run for minimum 2 year.
2. Installation Kit (Nuts, ferrules, tubing, connectors etc.).
3. Spare SimDist 7169 Column –4 no.
4. Suitable Vials & Caps (PTFE Silicon) for crude oil analysis Crimp type–300 nos

5. Auto sampler Vial Holder 2 nos
6. Auto sampler Syringe 0.5 ul – 3 no
7. Manual Syringe 2 ul - 1 no
8. Syringes – 3 Nos
9. Snoop leak detection solution (2 bottles)
10. BTO – Septa – 200 nos
11. Linear – 5 nos
12. Injector and Detector Nut- 5 nos
13. Injector and Detector Ferrule - 20 nos
14. Guard Column - 5 meter
15. Guard Column Metal Union with ferrule - 2 no
16. Imported Oxygen Filter - 3 no
17. Imported Indicative Oxygen Filter – 3 no
18. 10 micron $\frac{1}{4}$ particle filter for the CO2 Cylinder - 2 no
19. D2887 Column – 1 no
20. D5442 – Wax Profile Column 1 no

5.1.2 Consumables for DHA

1. All necessary consumable to run for minimum 2 year.
2. D6730 – Annexure 1 Spare Column set - 1 no
3. D5134 Capillary Column – 1 no
4. Vials, Septa(PTFE Silicon), Cap – 300 no
5. Crimp type Vials, Septa(PTFE Silicon), Cap – 500 nos
6. Crimper and Decapper for Auto sampler vial
7. Auto sampler Syringe 0.5 ul – 3 no
8. FID Tool
9. Linear – 5 no
10. Linear "O" Ring - 10 no
11. Injector and Detector Nut- 5 no
12. Injector and Detector Ferrule - 20 no
13. Siliized or Quartz wool – 5 g
14. Glass Union - 5 no
15. Union Resin – 1
16. Imported Oxygen Filter - 3 no
17. Imported Indicative Oxygen Filter – 3 no
18. Installation Kit (Nuts, ferrules, tubing, connectors etc.).
19. Electronic Flow meter
20. Tool kit – Different size spanner, Adjustable spanner, different size screw driver, wire cutter, allen keys (mm & inch), different size files, tweezers etc

6.0 MISCELLANEOUS:

6.1 Literature, Manual, Drawings & Other relevant Documents etc:

6.1.1 Along with offer:-

- i) Technical literature/brochures supporting specifications – 2 sets
- ii) Parts catalogue with price list – 2 sets

6.1.2 Along with Supply: - Hard copies of following

- i) Technical literature - 2 set
- ii) Operational Manual – 1 set
- iii) Maintenance manual including common trouble shooting – 1 set (Having detailed circuit diagram and system Integration details)

- iv) Accessories catalogue – 1 set
- v) Demonstration CD, if any – 2 set
- vi) Back up copy of software

6.2 Warranty certificates:

6.2.1 Warranty certificate to be furnished along with the offer of the equipment. Warranty period should be one year from the date of satisfactory commissioning of the equipment at designated place.

6.2.2 The manufacturer shall ensure good workmanship and adequate design of the appliance to withstand all operational stress and strain. If any defect in manufacturing, material or workmanship is noticed within the warranty period, then the supplier shall depute his representative to repair or replace the defective part of the equipment, whichever is deemed necessary at their own cost.

6.2.3 The repair work/replacement of the defective parts is to be ensured within one week from the date of intimation by the OIL to the vendor. For any delay beyond 7 days, the warranty period shall be extended correspondingly.

6.3 After Sales Service & Spares:

6.3.1 The OEM shall provide the maintenance, services, calibration facilities in India for the equipment and its associated accessories/assemblies/sub-assemblies under the contract, if awarded by OIL.

6.3.2 The bidder shall indicate the source of their bought out items and also the names of the original equipment manufacturer (OEM). The OEM shall guarantee the supply of spares along with improved version of software if any for minimum 10 years for all the items under the package to be supplied under the contract, if awarded by OIL.

6.3.3 The OEM shall undertake to enter in to AMC for minimum 05 years after the warranty period for all the items under the package to be supplied under the contract, if awarded by OIL.

6.3.4 The equipment should be covered under minimum one year warranty from the date of satisfactory commissioning against any manufacturing defects and malfunctioning.

6.3.5 Each quotation should be accompanied by a detailed technical catalogue containing salient features of the technical details.

6.3.6 The supplier should be responsible for onsite complete installation of the equipment as per manufacturer laid guidelines, with demonstration to be provided with standards. The supplier should provide all necessary standards, connections, lines etc. Gas cylinders with purification assembly will be provided by Chemical Department, Oil India Limited.

6.4 Manufacturing Test & Performance test Certificate along with the equipment.

6.5 Packing: Item should be strictly packed in sturdy, durable & weather proof packing to avoid any transit damage.

6.6 PRE SHIPMENT INSPECTION & TRAINING:

Pre shipment inspection shall be carried out by OIL's representative at manufacturer's site. The supplier shall inform OIL at least 2 (two) months ahead for such inspection to enable OIL to send inspectors. The supplier has to arrange for 2 (two) OIL engineers for inspection for about 5 – 6 days. OIL will bear the expenses towards travelling and accommodation etc. of the OIL's inspection

team. The Inspection cum Acceptance process would include the following minimum steps/tasks but not limited to –

- a. Verification of all material test certificates.
- b. Physical verification/inspection of all the items/fittings/accessories including all Parts Catalogue, Maintenance & Service Manuals, Operational testing of the equipment.
- c. Supplier shall have to take note of any minor modification(s) for operational requirement suggested by the inspector and comply with the same at no extra cost to OIL.
- d. The inspection report would be prepared at the end of the inspection and jointly signed by both the parties.
- e. Supplier shall confirm in writing compliance of all the points raised in the inspection report as well as any other subsequent additions/changes, following deliberation with the inspector after arrival at Duliajan.
- f. Supplier will affect despatch of the unit only on receipt of OIL's despatch advice.

Training During Inspection:

Supplier shall have to provide training to OIL Engineers during their inspection period on

Solid understanding of DHA principle

System analysis and troubleshooting skill

Component design and function

Common operational hazards and safe procedures

Diagnose common problem in the system and their solution etc

Preventive maintenance procedures

Correct system maintenance and set up procedures

Associate common malfunctions with their root causes.

Working principles for repair and replacement of different parts & spares etc.

7.0 NAME PLATE/ MARKING DETAILS:

Following information shall be securely stamped/stencilled on the body of the equipment /item or through a metallic plate tagged on the face of the equipment/item. The Equipment shall permanently be & legibly stamped with the following information:

7.1 Manufacturer's Name:

7.2 Model No.:

7.3 Serial No:

7.4 Year of Manufacture:

7.5 Any other relevant information

8.0 Annual Maintenance Contract (AMC):

The bidder shall quote comprehensive AMC as per the following clauses which shall be considered for bid evaluation.

8.1 The Nature of AMC is Comprehensive AMC. The cost of spares required for maintaining the equipment shall be in bidder's scope without any additional price implication to OIL. Bidder has to maintain ready stock available to meet any breakdown due to failure of components.

8.2 The bidder has to provide **onsite comprehensive AMC** service for supplied equipment including software if any for **5 (five) years**. Accordingly the bidder has to quote for the same.

8.3 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 after completion of warranty period.

8.4 Types of visit: There will be two types of visit to OIL site - Normal and call on 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 up gradation.

8.5 Normal (Preventive) visit: To check the normal healthiness of the system and attending problem reported by OIL. Also vendor to carry out any software up gradation 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.

8.6 Call on visit: To attend any emergency situation reported by OIL, vendor shall mobilize their competent engineer to OIL site within one week of the intimation.

8.7 Accommodation: Cost of all visits (including transport to and from Duliajan and accommodation at Duliajan) by bidder's personnel for AMC related work shall have to be borne by the successful bidder.

8.8 Local conveyance shall be provided by OIL at Duliajan.

8.9 **Payment terms:** Pro rata basis against the submitted invoice after the completion of each visit.

9.0 **General Notes for Bidders :**

(Bidders should confirm each & every point clearly. Deviations, if any, should be highlighted in the quotation.)

1.0 Materials shall be brand new, unused & of prime quality.

2.0 The Bidder shall warrant that in the event of an order, all product(s) supplied shall be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with the applicable codes and specification. Bidder should confirm the same while quoting.

3.0 Bidder should indicate the name of manufacturer & country of origin

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

(I) BID REJECTION CRITERIA:

(A) TECHNICAL

The following BRC/BEC will govern the evaluation of the bids received against this tender. The bid shall conform to the technical specifications and terms and conditions of NIT. Bids that do not comply with technical specifications, commercial terms and stipulated BRC/BEC in toto will be treated as non responsive and such bids shall prima-facie be rejected. Bid evaluation will be done only for those bids that pass through the "Bid Rejection Criteria" as stipulated in this document. In case, any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BRC / BEC) contradict the clauses of the tender, those in the BRC / BEC shall prevail.

A. TECHNICAL

1.0 Bidder's Qualification:

1.1 The bid must meet tender specification in all respect.

1.2 Bidder shall be an Original Equipment Manufacturer (OEM) of the offered product.

OR

1.3. The bidder shall be a direct authorized dealer/distributor/ supplier of OEM.

1.3.(i) The Bidder shall submit a valid Authorization Certificate issued by the Original Equipment Manufacturer (OEM) of the product, confirming the Bidder's status as their authorized supplier / dealer / distributor to sell their products with back-up warranty and guarantee. The Authorization Certificate shall be valid for the entire period of execution of the order.

1.3.ii) Authorization letter without clearly stating "authorized dealer or authorized distributor or authorized supplier of Original Equipment Manufacturer (OEM)" is not acceptable and in that case the bid shall be rejected.

1.3.iii) Authorization letter in any other form such as Direct Channel Partner /Indirect Channel Partner/Channel Partner/Reseller/Sub Dealer / Sub Distributor etc of the tendered item(s) will not be considered and the bid shall be rejected.

2.0 Bidder's Experience

2.1 The bidder shall have at least 5 years of manufacturing / supply experiences of tendered items to various companies/institutes.

2.2 The bidder shall have credentials for successful execution of orders for supplying at least 02 numbers of tendered items in the last 05 (five) years. For this purpose the period reckoned shall be the period prior to the bid closing date of the tender.

2.3 The bidder shall submit documentary evidences such as order copies together with any of the documents i.e. bill of lading, consignment note/ delivery challan, invoice, Successful Commissioning Report in support of

above bidder's supply experience criteria 2.1 & 2.2 along with the technical bid. OIL reserves the rights to verify the same. In case, the bidder is not in a position to provide successful commissioning report, it must provide the name and address of its clients with active e-mail address for OIL's verification.

- 2.4 Supply executed by the bidder to its sister concern/ subsidiary shall not be considered as experience for the purpose of meeting above experience criteria of BRC.

(B) COMMERCIAL:

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.

- 1) 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) **Bid security of US \$ 3,750.00 or Rs.2,55,000.00** 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.**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).Bank Guarantee towards Bid Security shall remain valid till 1(one) year from the bid closing date.(20.04.2017)
- 3.0 Validity of the bid shall be minimum 180 days from the date of Bid Closing date. Bids with lesser validity will be rejected.
- 4.0 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 commissioning at site 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 and no extra cost to OIL.
- 5.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for 01(one) year from the date of successful commissioning of the items at site. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

- 6.0 Bidders are required to submit the summary of the prices in their commercial bids as per bid format (Summary), given below :

(i) Commercial Bid Format (SUMMARY) for Foreign Bidders:

- (A) Total material cost of Main Equipment :
- (B) Total cost of tools/tackles/accessories/repair kit for Initial commissioning :
- (C) Total Material Cost, (A+B)
- (D) Packing & FOB Charges :
- (E) Total FOB Port of Shipment value, (C+D) above :
- (F) Overseas Freight Charges upto Kolkata, India :
- (G) Insurance Charges :
- (H) Total CIF Kolkata value, (E+F+G) :
- (I) Pre-despatch Inspection charges; if any:
- (J) Installation/Commissioning Charges including Service Tax :
- (K) Training Charges including Service Tax :
- (L) Total Value, (H+I+J+K) :
- (M) AMC Charges for 05(five) years after warranty including Service Tax:
- (N) Grand Total Value including (L+M) above :
- (O) Grand Total Value in words :
- (P) Gross Weight :
- (Q) Gross Volume :

(ii) Commercial Bid Format (SUMMARY) for Indigenous Bidders:

- (A) Total material cost of Main Equipment :
- (B) Total cost of tools/tackles/accessories/repair kit for Initial commissioning
- (C) Grand Total Material Cost, (A+B)
- (D) Packing and Forwarding Charges:
- (E) Total Ex-works value, (C+D) above :
- (F) Excise Duty, (Please indicate applicable rate of excise duty)
- (G) Sales Tax, (Please indicate applicable rate of Tax)
- (H) Total FOR Despatching station price, (E+F+G) above
- (I) Road Transportation charges to Duliajan
- (J) Insurance Charges
- (K) Assam Entry Tax
- (L) Total FOR Duliajan value, (H+I+J+K) above:
- (M) Pre-despatch inspection charges; if any
- (N) Installation/Commissioning Charges including Service Tax :
- (O) Training Charges including Service Tax:
- (P) Total value, (L+M+N+O) above :
- (Q) AMC Charges for 05(five) years after warranty including Service Tax:
- (R) Grand Total Value including (P+Q) above :
- (S) Grand Total Value in words :
- (T) Gross Weight :
- (U) Gross Volume :

NOTE:

- (i) The items covered under this enquiry shall be used by OIL in the PEL/ML areas issued/renewed after 01/04/99 and hence, applicable Customs Duty for import of goods shall be ZERO Indigenous bidders must quote Deemed Export prices. Excise Duty under Deemed Export exempted. Indian bidders however to note that Recommendatory Letter to DGH for availing NIL

customs duty benefit shall not be issued by OIL

- 7.0 Installation/Commissioning/Training charges should be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. These charges should include amongst others to and fro fares, boarding/lodging, local transport at Duliajan and other expenses of supplier's personnel during their stay at Duliajan, Assam (India).

Bidders must categorically indicate the above charges in their Price Bid and must confirm the same in their Technical Bids.

- 8.0 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.
- 9.0 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.
- 10.0 Bidders shall quote directly and not through Agents in India. Offers made by Indian Agents on behalf of their foreign principals will be rejected. Similarly offers from unsolicited bidders will be rejected.
- 11.0 No offers should be sent by Telex, Cable, E-mail or Fax. Such offers will not be accepted.
- 12.0 Bids containing incorrect statement will be rejected.
- 13.0 A bid shall be rejected straightway if it does not conform to any one of the following clauses:
- (a) Validity of bid shorter than the validity indicated in the Tender.
 - (b) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
 - (c) Bid Security with (i) validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.
 - (d) In case refuses to sign Integrity Pact.

(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 given below:

(A) COMMERCIAL

- 1) The evaluation of bids will be done as per the Commercial Bid Format(summary) detailed vide para (6) of BRC (Commercial).
- 2) If there is any discrepancy between the unit price and total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.
- 3) For conversion of foreign currency into Indian currency, B.C. selling (Market) rate declared by State Bank of India, one day prior to the date of price bid opening shall be considered. However, if the time lag between the opening of the bids and final decision exceed 3(three) months, then B.C. Selling(Market) rate of exchange declared by SBI on the date prior to the date of final decision shall be adopted for conversion and evaluation.
- 4) To ascertain the inter-se-ranking, the comparison of the responsive bids will be made as under, subject to corrections / adjustments given herein.

4.1) When only foreign bidders are involved:

Comparison of bids will be done on the basis of “Grand Total Value” which is estimated as under:

- (A) Total material cost of Main Equipment :
- (B) Total cost of tools/tackles/accessories/repair kit for commissioning :
- (C) Total Material Cost, (A+B)
- (D) Packing & FOB Charges :
- (E) Total FOB Port of Shipment value, (C+D) above :
- (F) Overseas Freight Charges upto Kolkata, India :
- (G) Insurance Charges @1% of Total FOB Port of Shipment value vide (E) above
- (H) Banking Charges @ 0.5% of Total FOB Value (E) above in case of payment through Letter of Credit (If confirmed L/C at buyer's account is required, 1.5% of Total FOB Value will be loaded)
- (I) Total CIF Kolkata value, (E+F+G+H) :
- (J) Installation/Commissioning Charges including Service Tax, if any :
- (K) Training Charges including Service Tax, if any :
- (L) Pre-despatch Inspection charges; if any:
- (M) Total Value, (I+J+K+L) :
- (N) AMC Charges for 05(five) years including Service Tax after warranty :
- (O) Grand Total Value including above (M+N) :

NOTE: Banking charges in the country of the foreign bidder shall be borne by the bidder.

**4.2) When only domestic bidders are involved or when more than one domestic bidders are in contention in case of mixed response:
Comparison of bids will be done on the basis of "Grand Total Value" which is estimated as under:**

- (A) Total material cost of Main Equipment:
- (B) Total cost of tools/tackles/accessories/repair kit for commissioning :
- (C) Total Material Cost, (A+B)
- (D) Packing and Forwarding Charges:
- (E) Total Ex-works value, (C+D) above :
- (F) Excise Duty including Cess
- (G) Sales Tax, (Please indicate applicable rate of Tax)
- (H) Total FOR Despatching station price, (E+F+G) above
- (I) Road Transportation charges to Duliajan
- (J) Insurance Charges @0.5% of Total For Despatching Station Value (H) above
- (K) Assam Entry Tax
- (L) Total FOR Duliajan value, (H+I+J+K) above
- (M) Installation/Commissioning Charges including Service Tax, if any :
- (N) Training Charges including Service Tax, if any :
- (O) Total value, (L+M+N) above :
- (P) AMC Charges for 05(four) years after warranty :
- (Q) Grand Total Value including (O+P)above :

NOTE: Excise Duty in case of the indigenous bidder is EXEMPTED

4.3) When both foreign and domestic bidders are involved:

The Grand Total Value of domestic bidder (inclusive of customs duty on imported raw material and components etc, and applicable terminal excise duty on the finished products and Sales Tax) excluding inland transportation to destination, Assam Entry Tax and Insurance charges worked out as per Para 4.2 above and Grand Total Value of the foreign bidder worked out as per Para 4.1 will be compared. No price preference will be allowed to indigenous bidders except that for capital goods, the domestic manufacturers would be accorded a price preference to offset CST to the extent of 4 % or actuals, which ever is less subject to 30 % local content norms as stipulated for World Bank Funded project to the satisfaction of OIL. When more than one domestic bidders fall within price preference range, inter-se-ranking will be done on Grand Total Value basis.

Note: If the Government of India revises these evaluation criteria the same as applicable on the bid closing date will be adopted for evaluation of the offers.

- 5) Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Global Tender. However, if any of the Clauses of the Bid Rejection Criteria/Bid Evaluation Criteria (BEC/BRC) mentioned here contradict the clauses in the General Terms & Conditions of Global Tender of the tender and/or elsewhere, those mentioned in this BEC/BRC shall prevail.

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CHECK LIST**(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 bid submitted under single stage Two-Bid System?	YES/NO	
8.	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 :		
9.	Whether offered firm prices?	YES/NO	
10.	Whether quoted offer validity of 180 days from the date of closing of tender?	YES/NO	
11.	Whether quoted a firm delivery period?	YES/NO	
12.	Whether quoted as per NIT (without any deviations)?	YES/NO	
13.	Whether any deviation is there in the offer?	YES/NO	
14.	Whether deviation separately highlighted?	YES/NO	
15.	Whether agreed to the NIT Warranty clause?	YES/NO	
16.	Whether Price Bid submitted as per Price Schedule?	YES/NO	
17.	Whether indicated the country of origin for the items quoted?	YES/NO	
18.	Whether all the items of tender quoted?	YES/NO	
19.	Whether technical literature/catalogue/drawings enclosed?	YES/NO	
20.	For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?	YES/NO	
21.	For Foreign Bidders – Whether port of shipment indicated? [To specify]	YES/NO	
22.	For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?	YES/NO	
23.	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 value?	YES/NO	
24.	Whether weight & volume of items offered indicated?	YES/NO	
25.	Whether confirmed to submit PBG as asked for in NIT?	YES/NO	
26.	Whether agreed to submit PBG within 30 days of placement of order?	YES/NO	
27.	For Indian bidders – Whether place of dispatch indicated in the offer? [To specify]	YES/NO	
28.	For Indian bidders – Whether road transportation charges up to Duliajan quoted?	YES/NO	
29.	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	YES/NO	
30.	For Indian Bidders only - Whether offered Deemed Export prices?	YES/NO	
31.	Whether quoted prices are exclusive of Excise duty?	YES/NO	
32.	For Indian bidders only – whether import content indicated in the offer?	YES/NO	
33.	For Indian Bidders only - whether all Taxes have been indicated categorically?	YES/NO	
34.	Whether all BRC/BEC clauses accepted?	YES/NO	
35.	Whether confirm to accept all clauses of Integrity Pact?	YES/NO	
36.	Whether duly signed Integrity Pact enclosed?	YES/NO	

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