



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

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Tender No. & Date: SDG5276P15/07 Dated: 04.11.2014

Tender Fee : INR 4,500.00 OR USD 100.00
Bid Security Amount : INR 1,07,000.00 OR USD 2,378.00
(or equivalent amount in any currency)

Bidding Type : SINGLE STAGE TWO BID SYSTEM

Bid Closing on : As mentioned in the Basic Data of the tender in OIL's e-portal.

Bid Opening on : As mentioned in the Basic Data of the tender in OIL's e-portal.

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No. / Mat. Code	Material Description	QTY.	UOM
1	<p>Supply of Gas Chromatograph as per the following:</p> <p>a) Detailed Technical Specification – Annexure - A</p> <p>b) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria – Annexure-B.</p> <p>c) Commercial Check list - Annexure - C</p>	01	No

Special Notes:

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 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.

4.0 Banking charges in the country of the foreign bidder shall be borne by the bidder

5.0 Please note that all tender forms and supporting documents are to be
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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.

a) Original Bid Security.

b) Details Catalogue and any other document which have been specified to be submitted in original.

- 6.0 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" is to be submitted as per Scope of Work & Technical Specification of the tender and "PRICED BID" as per the **Online Priced Bid format.**
- 7.0 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"
- 8.0 PRICED BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNO-COMMERCIALY ACCEPTABLE.
- 9.0 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.
- 10.0 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.
- 11.0 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. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. 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.

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

**(I) SHRI N. GOPALASWAMI, I.A.S (Retd) ,
Former Chief Election Commissioner
of India**

E-mail Id : gopalaswamin@gmail.com

(II) SHRI RAMESH CHANDRA AGARWAL , IPS(Retd)

**Former Director General of
Police**

**E-mail Id
:rcagarwal@rediffmail.com**

General Notes to Bidders:-

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

- 1) Minimum indicative requirement: The items listed in the scope of supply and works are only minimum indicative requirement. Vendor shall supply all required items (hardware / software) and execute all the activities to meet the required functionalities mentioned in this tender document and to complete the job successfully.
- 2) All necessary accessories including Gas purification system/channel etc. which are required to run the equipment should be separately quoted, which will be considered for bid evaluation.
- 3) The quoted GC should be of latest proven model as on date of submission of offer. 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, purchase order number and any other details for verification purposes.
- 4) List of consumables/ spares for smooth running of the instrument should be quoted separately with price. However these will not be considered for bid evaluation.
- 5) Bidder should provide all accessories/spares for initial commissioning free of cost along with the main equipment
- 6) Supplier must provide repair kit of the equipment free of cost.
- 7) Authorized agent or service engineer of the vendor/OEM with service facilities should be available in India.
- 8) The offered GC should have all the design feature requirements as indicated in the ASTM/IP/ISO methods
- 9) Valve Diagram with column should be attached along with the quote. Factory certified schematic diagram, and confirmation of desired application along with bid.
- 10) The vendor should submit the test report of analyzer directly faxed from the original GC manufacturing Site
- 11) The vendor should dispatch the GC from the factory or country of origin only after getting the acceptance certificate/letter.
- 12) Original Port of shipment document with serial number of the equipment should be provided prior to dispatch.

13) 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.

14) 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.

15) 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.

16) Software upgradation: If any software upgradation required / released for the supplied system after the expiry of warranty of the system, same shall be supplied to OIL by vendor free of cost without any price implication.

17) Inspection & test certificates: Vendor shall submit the inspection and test certificates, calibration reports and chromatogram traceable to applicable national and international standards for purchaser's review.

18) **Installation and Commissioning** : 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. Commissioning schedule:

(i) 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.

(ii) The Installation & commissioning activities shall be completed within 30 days from the date of intimation by OIL after receipt of materials at site.

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

19) a) 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.

b) 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.

c) Offers without indicating the Installation/Commissioning charges shall be loaded with the maximum installation/commissioning charges received against this tender for evaluation purpose.

d) 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.

20) **Calibration**

- (i) For calibration purpose the bidder should supply calibration gas mixture in 10 litres capacity cylinder with pressure 80- 90 kg/square centimeter certified by NABL laboratories .
- (ii) 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.
- (iii) Calibration if required to be done only by the manufacturer and it should be ensured during the visit for comprehensive AMC.

21) **Training:** Vendor shall organize onsite training to OIL Employees/executives covering all aspects of operation and maintenance of the instruments after successful commissioning of the equipment.

- (i) The training period shall be at least five days covering both for operation and maintenance.
- (ii) A manual should cover all aspects of normal operation, maintenance, trouble shooting, do, don'ts etc.
- (iii) Training to be organized during commissioning of the instrument.

22) **Annual Maintenance Contract (AMC):**

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

(ii) Charges for the Annual Maintenance Contract (AMC) for 4(four) years, after the warranty period is over, should be quoted with year-wise break up. These charges will be used for evaluation purposes only. The entire system should be under Annual Maintenance Contract for a period of 4(four) years after the warranty period is over. During the maintenance contract period, the service engineer of the supplier should make two visits for preventive maintenance of the instrument and one visit, if necessary, for breakdown maintenance of the instrument. Spares required, if any, during the maintenance contract period will be provided by OIL.

(iii) 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.

(iv) 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.

(v) 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.

(vi) 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 with in one week of the intimation.

vii) 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.

23) 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

24) Bids are invited under Single Stage Two Bid System. Bidders shall quote accordingly under Single Stage Two Bid System. Any offer not complying with the above will be rejected straightway.

25) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria (BEC) vide **Annexure-B** shall be applicable to this tender.

26) Commercial Check-list vide **Annexure -C** should be filled-up and submitted along with the offer.

27) The quotation must be submitted online and accompany detailed specifications of the offered product, forwarding relevant catalogue with drawings & literature with their quotation.

28) Payment: Payment shall be released as follows

i) 80% of the order value shall be paid against proof of dispatch/shipment of the goods.

ii) Remaining 20% of the order value along with installation and commissioning charges (if any) shall be paid after successful installation and commissioning and acceptance of the unit by OIL.

iii) OIL may also consider making 100 % payment towards supply of the units against proof of dispatch provided bidders agree to pay interest i.e 1% above the prevailing Bank Rate (CC Rate) of State Bank of India for 20% of the order value and also submit Bank Guarantee for the amount equivalent to 20% of the order value plus interest valid till successful commissioning at site.

iv) Payment towards Installation/Commissioning/Training (if any) shall be released on successful completion of the Installation/Commissioning/Training

v) Payment against AMC charges shall be made on quarterly basis against the invoice(s) to be submitted by the bidder at the end of each quarter.

Any offer not complying with the above shall be loaded at one percent above the prevailing Bank Rate (CC rate) of State Bank of India for evaluation purpose.

29) The items covered by this enquiry 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/E-01/2005 attached.

30) 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.

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

(I) BID REJECTION CRITERIA:

(A) TECHNICAL

Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer shall be considered as non-responsive and rejected.

1.0 Bidder's Qualification:

1.1 The bidder shall be an Original Equipment Manufacturer (OEM) of the tender item(s).

OR

1.2 The bidder shall be an authorized dealer / authorized distributor of an Original Equipment Manufacturer (OEM) of the tender item(s). Also, valid copy of authorization letter / dealership certificate with proper guarantee/warranty back up on the supplied products from the Original Equipment Manufacturer (the principal) shall be submitted along with the technical bid.

2.0 Bidder's Experience:

2.1 In case the bidder is an Original Equipment Manufacturer (OEM): The bidder shall have the credential of successful execution of order(s) of the tender item(s) of quantity not less than the tender quantity in last three (3) years preceding the bid closing date of the tender. In this regard, the bidder shall submit copies of purchase order, along with invoice/ bill of lading/any other documentary evidence from clients, which shall confirm successful execution of the order.

2.2 In case the bidder is an authorized dealer/distributor of an OEM, the original equipment manufacturer (the principal) shall fulfill the experience criteria as mentioned in para 2.1 above, supported by relevant documentary evidence.

2.3 In case the bidder is an authorized dealer / authorized distributor, the bidder shall have the experience of successful execution of at least 01(one) order for the tender item during the currency of last three (3) years preceding the bid closing date of the tender. In this regard, the bidder shall submit copies of purchase order, along with invoice/ bill of lading/any other documentary evidence from clients, which shall confirm successful execution of the order.

(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 \$ 2,378.00 or Rs. 1,07,000.00** 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. Fore 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 **24.02.2016**.

- 3) Validity of the bid shall be minimum 180 days from the date of Bid Closing Date. Bids with lesser validity will be 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 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 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 one year from the date of successful commissioning of the items. 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 :
- (H) Training Charges :
- (I) Total Value, (F + G + H) :
- (J) AMC Charges for 04(four) years after warranty :
- (K) Grand 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 :
- (K) Training Charges :

- (L) Total value, (I+J+K) above :
- (M) AMC Charges for 04(four) years after warranty :
- (N) Grand Value including (L+M)above :
- (O) Grand Value in words :
- (P) Gross Weight :
- (Q) Gross Volume :

NOTE:

1. 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.
2. Banking charges in the country of the foreign bidder shall be borne by the bidder

- 7) Offers received without Integrity Pact duly signed by the authorized signatory of the bidder will be rejected.
- 8) 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.
- 9) 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.
- 10) 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.
- 11) Bids containing incorrect statement will be rejected.
- 12) 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 the Party 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) TECHNICAL

- 1.1) For evaluation of bids, the cost of the main equipment including essential accessories for immediate commissioning, air generator, installation & commissioning, Training and four(04) years post warranty comprehensive AMC charges are to be considered.
- 1.2) Bidder must indicate the year of launch of the offered models. The bidder must state an undertaking that they will be able to provide essential spares necessary to repair the offered GC system for a minimum period of 10 years from the date of successful commissioning without which offer will be rejected..

(B) COMMERCIAL

- 1) The evaluation of bids will be done as per the Priced Schedule (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 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 @1% of Total FOB Port of Shipment value vide (C) above
- (F) Banking Charges @ 0.5% of Total FOB Value (C) 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)
- (G) Total CIF Kolkata value, (C + D + E + F) :
- (H) Installation/Commissioning Charges, if any :
- (I) Training Charges, if any :
- (J) Total Value, (G + H + I) :
- (K) AMC Charges for 04(four) years after warranty :
- (L) Grand Value including above (J + K) :

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 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, if any :
- (K) Training Charges, if any :
- (L) Total value, (I+J+K) above :
- (M) AMC Charges for 04(four) years after warranty :
- (N) Grand Value including (L+M)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 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 above (with customs duty as applicable on the bid closing date) excluding inland transportation to destination 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, whichever 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.

ANNEXURE-C

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 duly signed Integrity Pact enclosed?	YES/NO	

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Material specification for Gas Chromatograph (Qty: 01 no.)**SCOPE OF SUPPLY**

1.1 The Scope of supply would cover supply ,installation,testing and commissioning of a high precision fully microprocessor controlled multidimensional TCD based Natural Gas Analyser (NGA) with 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 80-90kg/square centimeter with following specification.

Name of the component	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%
N2	1 %	+/-10%	+/- 2%
CO2	1 %	+/-10%	+/- 2%

Mixture Specifications

1.2.1 Cylinder: The gas mixture should be supplied in 10 litre WC steel cylinders with Brass valve connection IS 3224
Gas Mixture Pressure: 80kg/sq cm to 90kg/sq cm.

Stability of Gas Mixture: 24 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 Calibration and Testing for Natural Gas.

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 should be certified by direct comparison for NG with the set 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 E2 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 Any other item including purification panel and distribution system appropriate to the offered system, if required, to complete the installation and functioning of the system in all respect.

2.SCOPE OF SERVICE:

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

2.2 Post warranty 4 years comprehensive AMC (including spares) 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 one of 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

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

- a. Sample injection port
- b. Column oven
- c. Columns and valves
- d. Detectors
- e. Electronic Pneumatics Control (EPC)
- f. 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.
- 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: $\pm 2\%$ 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 - 25minutes, 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 two(2) sets of hard copies of operation, maintenance & service manuals each.

3.16.2 (Two(2) sets of soft copy documentation in the form of Compact Disc(CD) are to be supplied along with the instrument

3.16.3 Two (2) sets of hard copies having details of the microprocessor along with manuals, terminal drawing and details of all the electronic components used.

3.16.4 Two (2) sets of hard copies having details of trouble shooting / guide for fault rectification in the microprocessor /electronic system.