



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

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Tender No. & Date : SDG5274P15/07 dtd 04.11.2014

Tender Fee : INR 4,500.00 OR USD 100.00
Bid Security Amount : INR 1,75,000.00 OR USD 3,890.00
(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	Supply of Addl. Analytical Equipments for AAQM VAN 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

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 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:-

1. The Additional Analytical Equipment and allied Accessories are to be installed/ integrated in existing Mobile van preferably using same sampling system and data logging system at R&D Department, Oil India Ltd. Duliajan-786602
2. The bidder should take responsibility to changing the power supply module and make it suitable for the equipment and AC separately. The bidder should also take responsibility for functionality of the overall system after integrating with new additional equipment and allied accessories.
3. The Additional Analytical Equipment and allied Accessories should conform to the Guidelines for Ambient Air Quality Monitoring published by Central Pollution Control Board, Ministry of Environment & Forests (National Ambient Air Quality Monitoring Series: 2009) for the parameters to be monitored.
4. All the offered equipment except BTEX should be USEPA approved. BTEX should have TUV approval for all BTEX components.
5. Bidders Scope includes Design, Engineering, Supply, and Supervision of Installation & commissioning, providing warranty for new added system and after sales service support. Bidder to submit the Quality Assurance Plan along with the offer based on which Factory Acceptance Test will be conducted at vendors works. Integrated system will be inspected by purchaser at site.
6. The system should function without frequent servicing / maintenance. The parts requiring regular service / maintenance must be easily accessible
7. All ambient Analyzers except BTEX shall conform with the USEPA reference. A proof of approval to be submitted.
8. All Analyzers shall be micro-processor controlled with automatic calibration. All Analyzers, Monitors and Sensors should be fully integrated in the 19" Rack cabinet, fully calibrated and tested before supply.
9. Vendor shall indicate in his bid, complete list of spares, consumables etc. in sufficient quantity required for trouble-free operation during warranty period. Consumables which would be used up during the warranty period should be supplied along with the equipment.
10. The system shall be supplied with all ancillaries and consumables necessary for trouble free operation during the warranty period. In case the shelf life of any consumable is shorter, then supplies to be done in suitable phases. Contractor shall give details of shelf life of the consumables in his bid.
11. AAQMS equipment shall be supplied with Operation and Maintenance / Service Manuals (in English Language) indicating details of installation, operation and calibration, preventive, routine & corrective maintenance.
12. Service Centre: Contractor's Service Centre shall be fully equipped with adequate number of qualified personnel, basic spare parts for all analyzers and associated equipment.
13. **Annual Maintenance contract:**
 - a) Non-comprehensive AMC rate for three (03) years, after the warranty period is over, should be quoted with year-wise breakup, which shall be considered for evaluation of the bids.

b) While quoting for AMC, the bidder should take into account two (02) numbers of preventive maintenance visits per year and any breakdown visits. In case of breakdown visit(s), the bidder must come to attend the equipment to make it operational within 15(fifteen) days after receiving the intimation.

c) The bidders must submit a written undertaking that they would be able to provide AMC service at the quoted rates after expiry of warranty.

14. The Bidder/Supplier should provide printed original literature with respect to the claimed capabilities for the supplied new system within the scope of our specifications.

15. Performance Guarantee: The Bidder/Supplier must enclose Factory Test Certificates with respect to various parameters, which cannot be demonstrated at site.

16. Installation & Commissioning:

a) The successful bidder will be required to install and commission all the supplied instruments inside the existing Ambient Air Quality Monitoring Van and to be integrated preferably with the existing sampling system and data logger at R&D Department, Oil India Ltd., Duliajan, Assam by their competent service engineer(s). The party should demonstrate all features of the system at the time of installation.

b) The supplier should replace defective parts if found any, during installation and or during the warranty period. This replacement should be done within a month's time at supplier's cost.

c) Installation and commissioning charges must be quoted separately on lump sum basis which shall be considered for evaluation of the offers.

d) The Bidder/Supplier should provide pre installation requirements along with the offer.

e) 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.

f) 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.

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

h) 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.

17. Training

Two scientific staff of R & D Department, two personnel from Instrumentation Department and two persons from Safety & Environment Department of Oil India Ltd. should be trained in the operation of the software and the equipment, application and routine maintenance of the equipment at supplier's site for 3 working days after the installation is over.

18. All the additional analytical equipment and allied accessories should be under warranty for minimum 12 months from the date of commissioning. 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 equipment. The supplier should provide any spares required for making the instrument operational.

19. 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 @ 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.

20. 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) BIR REJECTION CRITERIA

(A) TECHNICAL

The bids must conform to the specifications, terms and conditions given in the NIT. Bids shall be rejected in case the items offered do not conform to the required minimum/ maximum parameters stipulated in the technical specifications and to the respective international/ national standards wherever stipulated. 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 will be considered as non-responsive and rejected.

1. All analyzers to be offered should be from a single manufacturer only to ensure common spares availability.
2. The bidder must have authorized servicing centre with manufacturer's factory trained personnel for all the analysers, software and other equipments covered in the NIT, in India.
3. The bidder must provide servicing for all the analysers, software and other equipments covered in the NIT after expiry of warranty of the equipment under AMC. While quoting for AMC, the bidder should take into account two (02) numbers of preventive maintenance visits per year and any no of breakdown visits.
4. The Additional Analytical Equipments and allied Accessories are to be integrated in existing Mobile Van TATA LPT 407 using same sampling system and data logging system. The bidder should change the power supply module and make it suitable for the equipments and AC separately. The bidder should also take responsibility for functionality of the overall system after integrating with new additional equipments and allied accessories.
5. The Additional Analytical Equipments and allied accessories should conform to the Guidelines for Ambient Air Quality Monitoring published by Central Pollution Control Board, Ministry of Environment & Forests (National Ambient Air Quality Monitoring Series: 2009) for the parameters to be monitored.

(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 \$ 3,890.00 or Rs. 1,75,000.00** 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 **30.12.2015**.
- 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 twelve (12) months from the date of commissioning at site or eighteen(18) months from the date of dispatch/shipment of the items whichever is earlier, 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 01(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 03(three) years after warranty :
- (K) Grand Total Value including above (I + J) :
- (L) Grand Total 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 03(three) years after warranty:
- (N) Grand Total Value including (L+M)above :
- (O) Grand Total Value in words :

- (P) Gross Weight :
(Q) Gross Volume :

NOTE:

1. The items covered under this enquiry shall be entitled for Customs/Central Excise duty exemption in terms of Govt. notification No. 24/2007-(Sr 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.
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.

(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:

- 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 03(three) years after warranty :
- (L) Grand Total 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 03(three) years after warranty :
- (N) Grand Total 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, 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.

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,		
	(a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized dealer for the product offered?	YES/NO	
	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	YES/NO	
5.	Whether bid submitted under single stage Two-Bid System?	YES/NO	
6.	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 :		
	(d) Whether Bid Bond submitted as per revised format		
7.	Whether offered firm prices?	YES/NO	
8.	Whether quoted offer validity of 180 days from the date of closing of tender?	YES/NO	
9.	Whether quoted a firm delivery period?	YES/NO	
10.	Whether quoted as per NIT (without any deviations)?	YES/NO	
11.	Whether any deviation is there in the offer?	YES/NO	
12.	Whether deviation separately highlighted?	YES/NO	
13.	Whether agreed to the NIT Warranty clause?	YES/NO	
14.	Whether Price Bid submitted as per Price Schedule?	YES/NO	
15.	Whether indicated the country of origin for the items quoted?	YES/NO	
16.	Whether all the items of tender quoted?	YES/NO	
17.	Whether technical literature/catalogue/drawings enclosed?	YES/NO	
18.	For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?	YES/NO	
19.	For Foreign Bidders – Whether port of shipment indicated? [To specify]	YES/NO	
20.	For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?	YES/NO	
21.	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	
22.	Whether weight & volume of items offered indicated?	YES/NO	
23.	Whether confirmed to submit PBG as asked for in NIT?	YES/NO	
24.	Whether agreed to submit PBG within 30 days of placement of order?	YES/NO	
25.	For Indian bidders – Whether place of dispatch indicated in the offer? [To specify]	YES/NO	
26.	For Indian bidders – Whether road transportation charges up to Duliajan quoted?	YES/NO	
27.	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	YES/NO	
28.	For Indian Bidders only - Whether offered Deemed Export prices?	YES/NO	
29.	Whether quoted prices are exclusive of Excise duty?	YES/NO	
30.	For Indian bidders only – whether import content indicated in the offer?	YES/NO	
31.	For Indian Bidders only - whether all Taxes have been indicated categorically?	YES/NO	
32.	Whether all BRC/BEC clauses accepted?	YES/NO	
33.	Whether duly signed Integrity Pact enclosed?	YES/NO	

ANNEXURE-A

Material specification for Addl. Analytical Equipments for AAQM VAN. (Qty: 01 no.):

ADDITIONAL ANALYTICAL EQUIPMENTS AND ALLIED ACCESSORIES FOR EXISTING AAQM VAN

The Additional Analytical Equipment and allied Accessories to be integrated with existing Mobile van preferably using the existing same sampling system and data logging system at R&D Department, Oil India Ltd. Duliajan are as follows.

- 1) Single Bay Open Type Rack 1 No
- 2) Ozone analyzer 1 No
- 3) NO-NO₂-NH₃ analyzer 1 No
- 4) PM 2.5 Particulate Monitor 1 No
- 5) PM10 Head 1 No
- 6) BTX Analyzer 1 No
- 7) Calibration gas Cylinder with 10 liter water capacity with SS316 double stage regulators:

Benzene with balance N₂ 2 Nos.
NH₃ with balanced N₂ 2 Nos.
NO-NO₂ with balanced N₂ 1 No.
SO₂ with balance N₂ 1 No.
CO with balanced N₂ 1 No.

- 8) 99.99% pure N₂ cylinder 47 liter water capacity with double stage Regulator 1 No.

- 9) 50 Meter Power Cable with drum (3 core X 4 sq mm) 1 No

- 10) Air Compressor – Make Jun Air or Equivalent 2 Nos.

- 11) Multipoint Calibrator with 6 nos. calibration input &
Gas Phase Titration & Photometer for O₃ calibration 1 No.

- 12) Hydrogen Generator – Make Peak or Equivalent 1 No.

- 13) TSPM Hi-volume Air Sampler- Mass Flow 1 No.

- 14) 5 KVA Voltage Stabilizer 1 No.

NB: Weight of all the above items from 1 to 14 are required to be mentioned.

General specifications of the Analyzers/Equipment:

1. Single Bay Open Type Rack : 1 no.

- Suitable 19" single bay rack with overload protection, Power

Distribution Box, to accommodate all the above analyzers.

- Fully louvered slide panels.
- Bottom gland plate removables.

2. Ozone (O3) Analyzer : 1 no.

The Analyzer / Monitor should be 19" Rack Mounted Model with ON / OFF Switch and display of all important status signals including Lamps etc preferably on the front panel. Internal Ozone generator is not required.

(Conforming to USEPA Automated Federal Reference Method (FRM) Designation)

Specifications:

Approval : USEPA
Principle : UV Absorption
Range : 0-100 ppb to 0-10 ppm, user selectable. Auto-ranging supported
Min. detectable level: < 0.6 ppb (RMS)
Zero Noise : < 0.3 ppb (RMS)
Precision : < 0.5% of reading (EPA Definition) or 1 ppb or equivalent
Linearity : 1% of Full Scale
Response Time : < 20 seconds to 95%
Sample Flow Rate : 800 cm³/min \pm 10% or 1 litre per minute or equivalent
Power supply : 220-240V, 50/60 Hz supply
Outputs : RS232, Ethernet
Mounting : 19" Rack
Display : Color graphic display
USB ports : USB ports at least 02 Nos.
Calibration : Inbuilt Calibration system to be provided for Zero & Span

3. NO-NO2-NH3 Analyzer : 1 no.

The Analyzer / Monitor should be 19" Rack Mounted Model with ON / OFF Switch and display of all important status signals including Lamps etc preferably on the front panel.

(Conforming to USEPA Automated Federal Reference Method (FRM) Designation)

Specifications:

Approval : USEPA
Principle : Chemiluminescence
Measurement : NO, NO2, NOx, NH3 in Ambient Air
Range : 0 – 50ppb to 0 - 2000ppb, user selectable,
Dual ranges and autoranging supported
Lower detectable limits : 1ppb

Zero Noise : <0.5 ppb
Zero drift (24 hrs) : < 1 ppb
Span drift (24 hrs) : <1% of reading
Linearity : 1% of full-scale
Rise & Fall Time : <120 seconds to 90%
Power Requirements : 220 – 240 VAC, 50/60 Hz
Output : RS232 & Ethernet
Mounting : 19" Rack
Additional Feature : NH3-NO converter for low level NH3 monitoring
Display : Color graphic display
USB ports : USB ports at least 2 Nos.
Calibration : Calibration Gas Cylinders of known concentration along with pressure gas valve for zero & span shall be provided along with instrument for calibration purpose

4. PM 2.5 Particulate Monitor : 1 no.

The Analyzer / Monitor should be 19" Rack Mounted Model with ON / OFF Switch and display of all important status signals including Lamps etc preferably on the front panel.
(Conforming to USEPA Automated Federal Equivalent Method (FEM) Designation).

Specifications

Approval : USEPA
Principle : Beta Ray Attenuation
Accuracy : $\pm 5\%$ 24 hr Mode
Sampling Inlet : PM2.5
Range : 0 – 1000 $\mu\text{g}/\text{m}^3$
Min. detectable level : <1 $\mu\text{g}/\text{m}^3$ (24 hrs)
Filter Tape : Continuous Glass Fibre Filter tape, 30mm/40mm X 21 m long roll
Resolution : 0.1 $\mu\text{g}/\text{m}^3$
Measurement Cycle Time : 1 Hour
Power supply : 100 –230 VAC, 50/60 Hz
Air flow rate : 16.7 liters/minute adjustable
Mounting : 19" Rack

5. PM 10 Head : 1 No.

Specification: The PM10 Head is to be compatible with the existing TSPM analyzer.

6. BTX Analyzer : 1 no.

Using Photo Ionization Detector gas chromatograph technology, the Analyzer to measure the amount of volatile compounds like benzene, toluene, ethyl benzene, Xylene (ortho, meta, para-Xylene) etc in the air.

Specifications

Principle : Photo Ionization Detector (PID)

Approval : TUV for all BTEX components
Range : 0 to 100 ppb or 0 to 325 µg/m³
Low Detection Limit (LDL): <0.01 ppb or 0.033 µg/m³
Column : Metallic capillary column of 30 mtrs length
Inbuilt Computer : Should have inbuilt computer
Sample Volume Control : By Flow controller with volume measurement saved in the memory
Sample trap : Light weight ss trap with operating temp 40 -380 deg C
Detector Diagnostics : (PID) with auto clean and auto calibration
Cycle Time : 15 or 20 or 30 Min
Power supply : 230V, 50 Hz
Operating Temp : 10 to 35°C
Outputs Serial port : RS232
Mounting : 19" Rack
Calibration : Inbuilt Calibration using permeation tube

7. Calibration Gas Cylinders : 7 nos.

Calibration gas in Cylinders with 10 liter water capacity with SS 316 double stage regulators for calibrating the provided analyzers:

Benzene with balance N₂ 2 Nos.
NH₃ with balanced N₂ 2 Nos.
NO-NO₂ with balanced N₂ 1 No.
SO₂ with balance N₂ 1 No.
CO with balanced N₂ 1 No.

The cylinders should be high pressure as per IS 7285 and valve as per IS 3224 specification. The cylinders should be provided with manufacturer test certificate & CCE Nagpur certificate.

The gases should be supplied with purity certificate.

8. 99.99% pure N₂ cylinder 47 liter water capacity with double stage Regulator: 1 no.

High purity N₂ gas (99.99% pure) in 47 liter water capacity with SS 316 double stage regulator for using as carrier gas in the BTEX Analyzer.

The cylinder should be high pressure seamless carbon steel as per IS 7285 and valve as per IS 3224 specification. The cylinders should be provided with manufacturer test certificate & CCE Nagpur certificate.

The gases should be supplied with purity certificate.

9. 50 Meter Power Cable with drum (3 core X 4 sq mm): 1 No.

External Power Cable of 50 meter with drum for use with external power supply to the analyzers, 230V 50 Hz

10. Air Compressor : 2 Nos

- a) Compact, Silent and Oil free Air Compressor for using in Methane- non methane analyzer and Gas Chromatograph system with tubing and connector.
- b) Air purification membrane air dryer/filter to separate oil, particle and condensate
- c) Noiseless, with sound level between 50 to 60 db

- Make June Air or Equivalent.

11. Multipoint Calibrator with 6 nos. calibration input & Gas Phase Titration & Photometer for Ozone calibration: 1 no.

The multipoint calibrator should have Ozone generator with photometer for calibrating O3 analyzer. It should also be capable of calibrating NO-NO2-NH3 analyzer, O3 analyzer, SO2-H2S analyzer, CO analyzer, BTEX monitor etc.

12. Hydrogen Generator : 1 no.

Flow requirement : 300 cc/min
 Purity : 99.9999%
 Delivery Pressure : 0 to 100 psi
 Outlet port : 1/8" tube
 Electrical Requirement : 230V/50Hz

The Hydrogen generator should be of good quality.
 -Make Peak or Equivalent

13. TSPM Hi-volume Air Sampler- Mass Flow : 1 No.

The TSPM Hi-volume Air Sampler-Mass Flow should be capable of 24-hour, continuous indoor or outdoor sampling, features a high speed motor, durable all-weather shelter, and ruggedized electronic components for accurate sampling. The air flow through the system is maintained at a constant rate by a suitable electronic probe, which automatically adjusts the speed of the vacuum motor to correct for variations in temperature, pressure and filter loading.

Specifications:

Compliance: U.S. EPA Compliant

Flowrate: 20 to 60 SCFM
 Accuracy Flow control: $\pm 2.5\%$ deviation over 24 hour sampling period
 Power Supply: 220-240 V 50Hz, 1-Phase

14) 5 KVA Voltage Stabilizer 1 No.

SPECIFICATION:

Power: 5 KVA
 Input voltage: 100-280 volt.
 Output voltage: 220 volt. 10%

Frequency: 50 Hz
Insulation: Greater than 6 M Ohms
Mode of operation: Automatic
Response Time: 30 seconds
Duty cycle: Continuous
Type of cooling: Air cooled
Efficiency: Better than 98%
Operating temperature: ambient degree C to 55 deg. C. Unbalance supply and load suitable for single phase unbalanced / balanced load and for all power factor.
Transformer: All copper wound on CRGO laminations, as per ISO specification for high efficiency and low loss.
Salient features: Input / Output voltage shown by voltmeter on front panel.