



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

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Tender No. : **SDG5594P15/07**

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

Bid Closing on : As mentioned in the Basic Data of e-portal

Bid Opening on : -do-

Tender Fee : INR 4,500.00 OR USD 100.00

Bid Security Amount : INR 71,200.00 OR USD 1,583.00

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No.	MATERIAL DESCRIPTION	QTY.	UOM
10	<p><u>TECHNICAL SPECIFICATION</u></p> <p>Auto-titrator for performing all types of potentiometric titrations in aqueous and non-aqueous phases.</p> <p>Features of the system:</p> <p>1. Auto-titrator system having capability to carrying out all types of potentiometric titrations e.g. complexometric, acid-base, redox, argentometric, precipitation, iodometric, non-aqueous etc as well as pH, mV, temperature & concentration measurements.</p> <p>2. Parallel titration facility to perform any two titration application simultaneously without disturbing the setup.</p> <p>3. Automatic recognition of the basic instrument and all the peripheral devices connected to it by the software like automatic burette recognition, automatic sensor recognition, and automatic dosing drive recognition features with intelligent chips.</p>	01	No.

	<p>4. Facility to connect minimum four titrating burettes for different types of titrations.</p> <p>5. Equipped with one volumetric Karl Fischer Titration unit.</p> <p>6. Intelligent methods with "if... then" conditions.</p> <p>7. Facility to connect minimum two (02) auxiliary burettes for the addition of auxiliary solution or buffer solution needed for titrations and back titrations.</p> <p>8. Facility to upgrade the system to connect minimum 7 titrating burettes in the future.</p> <p>9. System should have the remote port to connect to the sample changer/autosampler when ever required.</p> <p>10. Direct access to intranet and internet.</p> <p>11. Real time curve display.</p> <p>Specifications:</p> <p>1. Power: 220-230V/50Hz</p> <p>2. Operation: Dual mode, from Touch pad and PC depending on needs</p> <p>3. Interfaces: Dual RS-232/ USB ports for attachment of balances, autosampler, printer, PC, barcode reader etc</p> <p>4. Dosing Drives:</p> <p>a) Plug and play type dosing drives, automatically recognized by titrator on connection and can be used immediately for analysis without further configuration.</p> <p>b) Electronics parts of the drive should not be damaged due to reagent spill or leak from burette.</p> <p>c) Flexibility to interchange titrants without contamination.</p> <p>d) Option to transfer the titrant / solutions back to the reservoir during prep/empty actions.</p> <p>e) Dosing drives with chip on board technology with the capability of read write. The Chip on Board Technology on the Dosing Drive with a Data chip, which can store following information: Order number, Serial Number of Dosing Unit and Cylinder Serial Number, Burette volume. The Burette volume once sensed should not be possible to temper it.</p> <p>f) Quantity required: 02 Nos</p> <p>5. Burette/Dosing Units:</p>		
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	<p>a) Type: Intelligent burette with latest burette technology and chip which can automatically detect the burette volume, reagent type and titer validity etc irrespective of the drives on which the burettes with the titrants are present.</p> <p>b) Possibility to mount the burette on top of the reagent bottles.</p> <p>c) Facility to see and remove air bubble, if any, from the dosing cylinder.</p> <p>d) Rinsing and preparation of the dosing unit can be carried out automatically</p> <p>e) Single click command for emptying and filling of burette</p> <p>f) Resolution: Minimum 1/10,000 of burette volume</p> <p>g) Burette volume: Burettes volume of 2, 5, 10, and 20 ml should be available.</p> <p>h) Dosing Accuracy: +/- 0.05% of burette volume</p> <p>i) Filling time: 20 sec</p> <p>j) Quantity required:</p> <p>i) Minimum 4 Nos of 20 ml volume (for Acid/base, Non Aqueous, and Argentometric etc)</p> <p>ii) 01 No of 10 ml volume for Volumetric Karl Fischer titration</p> <p>6. Parameters: The system with adequate sensors/electrodes should be capable of measuring following parameters in the given ranges as per DIN/ASTM standards.</p> <p>a) Voltage: Range: -2000mV to +2000mV Resolution: 01mV or better</p> <p>b) pH: Range: 0-14 Resolution: 0.001 or better pH Calibration: minimum 3 point calibration with automatic buffer recognition and automatic temperature compensation</p> <p>c) Alkalinity (carbonate, bicarbonate & total Alkalinity): Range: Single ppm to % level Resolution: Up to 3 decimals</p> <p>d) Salinity or Chlorine content: Range: 0.5 ppm to % level</p> <p>e) Hardness (Ca, Mg & Total Hardness): Range: 10 ppm onwards</p> <p>f) Non- aqueous titrations for TAN/TBN etc.</p> <p>g) Bromine Index/Bromine Number</p> <p>7. Sensors/Electrodes:</p> <p>i) All sensors/electrodes shall be intelligent and plug & play type, which are automatically identified by the titrator when connected thus eliminates the possibility of use of wrong electrode.</p> <p>ii) The built in memory chip allows the storage of important sensor data e.g. article and serial numbers, calibration data, calibration history, working life and calibration validity period etc.</p> <p>Sensors/electrodes with required cables should be provided along with the</p>		
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	<p>titrator for the following titrations</p> <ol style="list-style-type: none"> 1. EDTA Complexometric. 2. Acid Base &pH. 3. Non Aqueous Titrations. 4. Iodometric. 5. Bromine Index / Bromine Number. 6. Redox. 7. Argentometric / Presipitation Titrations. 8. Volumetric Karl Fischer titration unit consisting of electrodes and other required accessories <p>8. Stirrer: Plug and Play type magnetic / Propeller stirrer. Stirring speed and direction should be controlled from the main instrument within the method.</p> <p>9.Titration Stand: 02 Nos titration stands with stirrers, connecting cables and other essential accessories.</p> <p>10.Titration Beakers: Minimum 100 nos of polypropylene titration beakers of 100 ml capacity each should be provided.</p> <p>11. Methods: Method storage upto 100 Methods. Pre-programmed methods should be provided in USB stick minimum 3 Nos).</p> <p>12. Result Storage: Possible to export the results to PC/LIMS through the USB stick.</p> <p>13. Auto Sample Changer:</p> <ol style="list-style-type: none"> 1. Latest USB based sample changer with facility to handle minimum 30 samples in titration beakers of 100ml maximum capacity each. 2. Possibility to prepare the sample before the Titration using auxillary dosing devices. Possibility to handle a minimum of 2 auxillary reagents to be quoted. 3. Facility to go sequentially one sample after the other or the sample processor should be able to execute the titration with any sequence as decided by the user. 4. Results should be available in one format containing all the parameters as mentioned. 5. Facility for automatic rinsing and cleaning of the setup should be provided. Re-generation facility should be built into the system. 6. The supplier has to provide details of the Auto Sample Changer with details & drawings. In case of 3rd party product, address of OEM/authorized dealer to be provided. <p>14. PC and Printer</p> <ol style="list-style-type: none"> i. Branded PC from Hp, Lenovo, Dell, Sony, Toshiba etc with min. 320 GB HDD, 4GB RAM, DVD R/W, 17 inch TFT Monitor, Key Board, Optical Mouse 		
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	<p>etc. , 64 bit Windows 7 or higher Operating System</p> <p>ii. Hplaserjet or equivalent printer compatible with the supplied PC.</p> <p>iii. Antivirus with minimum one year validity</p> <p>15. Software Package</p> <p>i) Latest windows based Software package for operation of the entire system and data acquisition</p> <p>ii) Compatible with the operating system of the PC to be supplied and allows a fully automated workflow including LIMS connection.</p> <p>iii) It should be possible to connect unlimited number of Titrator to the software. It should be possible to do four titrations (two parallel) simultaneously.</p> <p>iv) The software should support client server environment. It should be possible to export the data to LIMS and automatic data backup.</p> <p>v) Should be able to control the titrator and all devices connected to it.</p> <p>vi) Automatic recognition of devices and monitoring of titer validity, calibration intervals of Sensors etc.</p> <p>vii) Possibility of multitasking like method creation during preparation of dosing devices etc.</p> <p>viii) Provision to save the SOP of the titration as Application note along with the method itself.</p> <p>ix) "IF... then" command to perform actions based on conditions during unattended operations.</p> <p>x) Case / Error commands to perform actions based on logical decisions.</p> <p>xi) Other types of evaluations like Fix End point evaluation, Minimum/maximum evaluation, Break point evaluation, Gran evaluation to evaluate non S shaped curves.</p> <p>xii) Possibility to include any number of commands like Measuring, adding of solutions, titration in a single method.</p> <p>xiii) Live display with different axis and possible to view measured value, calculated value, 1st derivative (ERC) etc. Live modification of method parameters, like stop volume.</p> <p>xiv) Hold function halts the ongoing titration and dosing activities.</p> <p>xv) Result trend analysis, History about the each determination should be available.</p> <p>xvi) Control chart, overlay curves, recalculation facilities. Reprocessing with various options like changing the sample size, changing the End Point Recognition etc. even after the completion of titration, but still should keep the original raw data.</p> <p>xvii) Export and import of data in different formats like CSV (to excel), XML (to LIMS), etc.</p> <p>xviii) Custom reports with the customer's desired logo.</p> <p>xix) Possibility to connect a Balance to automatically transfer the weight data.</p> <p>16. Calibration Standards:</p> <p>The party shall provide adequate quantities of buffers for pH calibration, calibration standards certified by NABL or equivalent Laboratories, reference samples for performance evaluation for the parameters for which electrodes/sensors provided, at least for one year operation.</p>		
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(A) General Notes for e-tender :

1. 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 Amendment and Addendum.
2. The general details of tender can be viewed by opening the RFx [Tender] under RFx and Auctions. The details of items tendered can be found in the Item Data and details uploaded under Technical RFX.
3. Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
4. 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.All documents submitted in physical form should be signed on all pages by the authorized signatory of the bidder and to be submitted in triplicate.
5. Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.
6. 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.
7. All the Bids must be Digitally Signed using "Class 3" digital certificate (*e-commerce application*) with organisation name 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.
8. Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

(B) GENERAL NOTES FOR BIDDERS:

1. The equipment supplied shall be brand new, original and free from any defect.
2. **Installation / Commissioning & Training:**
 - a. The successful bidder shall install and commission the equipment at Chemical Department, Oil India Ltd., Duliajan, Assam, India by their competent service engineer (s). The party shall demonstrate all specification and operation at the time of installation.
 - b. The supplier shall replace defective parts if found any, during installation or during the warranty period. This replacement shall be done within a month's time at supplier's cost.
 - c. The supplier's service engineer must demonstrate the performance of the system as specified in the offer and also must provide training to OIL's technical/scientific staff on operation, application and trouble shooting of the system after installation. Basic instrumentation drawings/ configuration, manuals are to be supplied along with the unit for ready reference.

d. Installation / commissioning & Training charges if any must be quoted separately on lump sum basis which shall also be considered for evaluation of the offers. Incase if charges are not quoted it will be considered to have been included in the total cost.

3. Annual Maintenance Contract:

a) The supplier shall quote for the cost of comprehensive AMC for a period of 05 (five) years after expiry of warranty period of 01(one) year. This will be considered for Bid evaluation.

b) While quoting for AMC the bidder shall take in to account two numbers of preventive maintenance visits per year and breakdown visits as and when required per year. In case of breakdown visit, the bidder must send their service engineer within fifteen (15) days of receiving the notice to attend the equipment to make it operational.

4. The bidder shall be responsible for supplying the required spares.

5. The bidder must provide written assurance regarding availability of spares of the equipment for a period of ten years (10 years) from the date of commissioning of the instrument.

6. The system shall be completed in all respect with essential accessories required for immediate commissioning and smooth running of the equipment after receipt at Duliajan, Assam.

7. The Supplier shall provide operation manual and maintenance and troubleshooting manual (hard copy as well as soft copies) along with the supply.

8. **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.

9. The items covered by this tender shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/01/2005 enclosed. However no Recommendatory letters will be issued to Indian Bidders.

10. Check-List vide **Annexure-B** shall be filled-up and submitted along with the offer.

11. 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.

12. 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 (BRC)

The bids must conform to the specifications and terms and conditions given in the tender. Bids shall be rejected in case the item(s) 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.

(A) TECHNICAL:

1. The manufacturer/supplier must have sold at least 02 (two) such equipments to any laboratory in India or abroad during the last five (05) years. For this purpose the period reckoned shall be the period prior to the date of bid closing.

(B) COMMERCIAL:

- i) Bids are invited under **Single Stage Composite Bid System**. Bidders shall quote accordingly under Single Stage Composite 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.
- ii) **Bid security of US \$ 1,583.00 or Rs. 71,200.00** 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 14.05.2016.**
Bid security submitted with validity shorter than the validity indicated in the tender and/or Bid security amount lesser than the amount indicated in the tender will be summarily rejected.
- iii) Validity of the bid shall be minimum 120 days from the date of Bid Closing Date. Bids with lesser validity will be summarily rejected.
- iv) 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 18 months from the date of receipt or twelve (12) months from the date of commissioning, 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.

- v) Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for a period of 12 (twelve) months from the date of commissioning, whichever is earlier. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.
- vi) Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below :

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

- (A) Total Material Cost of Equipment :**
(B) Packing & FOB Charges :
(C) Total FOB Port of Shipment value, (A+B) above :
(D) Overseas Freight Charges upto Kolkata, India :
(E) Insurance Charges :
(F) Total CIF Kolkata value, (C+D+E) :
(G) Installation/Commissioning Charges including Service Tax :
(H) Training Charges including Service Tax :
(I) Total Value,(F+G+H) :
(J) AMC Charges for 05(five)years after warranty including Service Tax:
(K) Grand Total Value including (I+J) above :
(L) Grand Total Value in words :
(M) Gross Weight :
(N) Gross Volume :

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

- (A) Total Material Cost of Equipment :**
(B) Packing and Forwarding Charges:
(C) Total Ex-works value, (A+B) above :
(D) Excise Duty,(Please indicate applicable rate of excise duty)
(E) Sales Tax, (Please indicate applicable rate of Tax)
(F) Total FOR Despatching station price, (C+D+E) above
(G) Road Transportation charges to Duliajan
(H) Insurance Charges
(I) Assam Entry Tax
(J) Total FOR Duliajan value, (F+G+H+I) above:
(K) Installation/Commissioning Charges including Service Tax :
(L) Training Charges including Service Tax:
(M) Total value, (J+K+L) above :
(N) AMC Charges for 05(five) years after warranty including Service Tax:
(O) Grand Total Value including (M+N) above :
(P) Grand Total Value in words :
(Q) Gross Weight :
(R) Gross Volume:

NOTE:

1. Cost Of Individual Items must be quoted separately
 2. 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. However, Recommendatory letters will not be issued to Indian Bidders.
 3. Banking charges in the country of the foreign bidder shall be borne by the bidder
- vii) 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.
- viii) 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.
- ix) 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 mentioned in Section D of "General Terms & Conditions" for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005.

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ANNEXURE-B**COMMERCIAL CHECK-LIST**

Sl. No.	PARAMETERS/REQUIREMENTS	BIDDER RESPONSE	REMARKS IF ANY
1.	Whether Original Signed quotation submitted?	YES/NO	
2.	Whether quoted as manufacturer?	YES/NO	
3.	Whether quoted as authorized dealer? [To Specify]	YES/NO	
4.	If quoted as authorized dealer,		
5.	(a)Whether submitted valid and proper authorization letter from manufacturer IN ORIGINAL confirming that bidder is their authorized dealer for the product offered?	YES/NO	
6.	(b)Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	YES/NO	
7.	Whether ORIGINAL Bid Bond (not copy of Bid Bond) enclosed with the offer? If YES, provide details	YES/NO	
	(a) Amount :		
	(b) Name of issuing Bank :		
	(c) Validity of Bid Bond :		
	(d)Whether Bid Bond submitted as per Revised Format		
8.	Whether offered firm prices?	YES/NO	
9.	Whether quoted offer validity of 120 days from the date of closing of tender?	YES/NO	
10.	Whether quoted a firm delivery period?	YES/NO	
11.	Whether quoted as per NIT (without any deviations)?	YES/NO	
12.	Whether any deviation is there in the offer?	YES/NO	
13.	Whether deviation separately highlighted?	YES/NO	
14.	Whether agreed to the NIT Warranty clause?	YES/NO	
15.	Whether Price Bid submitted as per Price Schedule?	YES/NO	
16.	Whether indicated the country of origin for the items quoted?	YES/NO	
17.	Whether all the items of tender quoted?	YES/NO	
18.	Whether technical literature/catalogue/drawings enclosed?	YES/NO	
19.	For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?	YES/NO	
20.	For Foreign Bidders – Whether port of shipment indicated? [To specify]	YES/NO	
21.	For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?	YES/NO	
22.	Whether Indian Agent applicable?	YES/NO	
	If YES, whether following details of Indian Agent provided?		
	(a) Name & address of the agent in India – To indicate		
	(b) Amount of agency commission – To indicate		
	(c) Whether agency commission included in quoted material value?	YES/NO	
23.	Whether weight & volume of items offered indicated?	YES/NO	
24.	Whether confirmed to submit PBG as asked for in NIT?	YES/NO	
25.	Whether agreed to submit PBG within 30 days of placement of order?	YES/NO	
26.	For Indian bidders – Whether place of dispatch indicated in the offer? [To specify]	YES/NO	
27.	For Indian bidders – Whether road transportation charges up to Duliajan quoted?	YES/NO	
28.	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	YES/NO	
29.	For Indian Bidders only - Whether offered Deemed Export prices?	YES/NO	
30.	Whether quoted prices are exclusive of Excise duty?	YES/NO	
31.	For Indian bidders only – whether import content indicated in the offer?	YES/NO	
32.	For Indian Bidders only - whether all Taxes have been indicated categorically?	YES/NO	
33.	Whether all BRC/BEC clauses accepted?	YES/NO	

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