

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO PROPULSION COMPLEX (IPRC)
MAHENDRAGIRI**

Tender for Supply, Installation and Commissioning of Liquid Particle Counter

Bids to be submitted online

Tender No.: IPRC/PURGP1/IP202100063701 dated 01-10-2021

A. Tender Details

Tender No : **IPRC/PURGP1/IP202100063701**

Tender Date : **01-10-2021**

Tender Classification: **GOODS**

Purchase Entity : **PURGP1**

Centre : **ISRO PROPULSION COMPLEX (IPRC)**

Procurement of Supply, Installation and Commissioning of Liquid Particle Counter

- 1.Foreign vendors are not permitted to quote.
- 2.Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid.
 - a. The percentage of local content with documentary proof should be specifically mentioned in the offer, without which it will be summarily rejected.
 - b. Preference will be given to Class-I Local Supplier and in their absence, Class-II Local Supplier will be considered.
- 3.IF MSME, please provide documentary proof.
- 4.Last minute clarification on tenders will not be entertained.
- 5.This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
- 6.Acceptance of Guarantee / Warranty, PBG, SD & LD are mandatory. Quotations not accepting these conditions will not be considered.

A.1 Tender Schedule

Bid Submission Start Date : 01-10-2021 17:00

Bid Clarification Due Date : 29-10-2021 10:00

Bid Submission Due Date : 05-11-2021 10:00

Bid Opening Date : 05-11-2021 10:01

B. Tender Attachments

NA

Instructions To Vendors

1. STANDARD TERMS AND CONDITIONS (DOS PM:19)

1. TERMS AND CONDITIONS OF TENDER:

Price quoted should be on the basis of FOR IPRC, Mahendragiri or delivery at site

The Purchaser will not pay separately for transit insurance, and the risk and cost during transit shall be exclusively the responsibility of the Contractor and the purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

2. Quotation should be valid for at least 90 days from the date of opening of the tender.

3. The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed not later than the date specified therein, and failure to do so, without adequate justification, may involve cancellation of the Contract at the discretion of the Purchaser.

4. Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two systems of unit must be furnished.

5. Corrections, if any, in the quotation must be attested. All amounts shall be indicated both in words as well as in figures. When there is difference between the amount quoted in words and figures, the amount quoted in words shall prevail.

6. The Purchaser reserves the right to accept or reject any quotation fully or partly without assigning any reason thereof.

7. Payment terms are full payment within 30 days from the date of receipt and acceptance of material ordered. Our Bankers are State Bank of India, Mahendragiri.

8. Late Tenders will not be considered.

9. Where counter terms and conditions/printed or cyclostyled conditions of sale have been offered by the tenders, the same shall not be deemed to have been accepted by the Purchaser unless the

Purchaser's specific written acceptance thereof is obtained.

10. Specifications: Stores offered should strictly conform to Purchaser's specifications. Deviations, if any, shall be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotation. Test certificate, wherever necessary, should be forwarded along with supplies. Wherever options are called for in our specifications, the tenderer should address all such options, wherever specifically mentioned by us, and the tenderer could suggest changes to specifications with appropriate response for the same. Even in such case, the tenderer should state why he cannot meet our specifications and why he is suggesting the change.

11. Sales Tax and/or other duties/levies, where legally leviable and intended to be claimed, should be distinctly shown separately in the tender.

12. Guarantee: The stores offered should be guaranteed for a minimum period of twelve months against defective stores design, operation or manufacture. For defects noticed during the guarantee period, replacement/repair should be arranged free of cost within a reasonable period of such notification. In cases where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.

13. The Contractor shall at all times indemnify the Purchaser against all claims which may be in respect of the stores for infringement of any right protected by Patent, Registration or design or Trade Mark and shall take all risks of accidents or damage which may cause a failure of the supply from whatever causes arising and the entire responsibility for the sufficiency of all means used by him for the fulfillment of the Contract.

14. Arbitration in the event of any dispute or difference arising under these terms & conditions or any condition contained in the Purchase Order or in connection with this Contract. (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase Office or of some other person appointed by him, and the dispute further processed in terms of the Arbitration & Conciliation Act, 1996. There will be no objection that the arbitrator is a Government Servant that he had to deal with matter which the Contract relates to or that in the course of his duties as Government Servant has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

15. If the arbitrator is the Head of the Purchase Office :

(i) In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor in office either to proceed with the reference himself for to appoint another person as arbitrator, or In the event of his being unwilling or unable to act for any reason, it

shall be lawful for the Head of the Purchase Office to appoint another person as arbitrator.

16. If the arbitrator is a person appointed by the Head of the Purchase Office, In the event of his denying or neglecting or refusing to act, or resigning or being unable to act, for any reason, shall be lawful for the Head of the Purchase Office either to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator subject, as aforesaid, to the Arbitration and Conciliation Act, 1996, and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceeding under the clause. The Arbitrator shall have the power to extend with the consent of the Purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as the Purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during Arbitration Proceedings.

17. Successful tenderer will have to furnish in the form of a Bank Guarantee or in any other form as called for by the Purchaser towards adequate security for the materials/property provided by the purchaser for the due execution for the Contract.

18. Packing and Forwarding: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense to the Contractor.

2. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

2. Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

3. Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

4. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

5. Model Certificate for Tenders

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered

3. GENERAL TERMS AND CONDITIONS:

1. Guarantee / Warranty period as applicable shall be indicated, along with the quote. Guarantee/Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the contract/purchase order.
2. IPRC reserves the right to accept or reject any quotation in full or part thereof by recording the reasons.
3. In case the vendor falls in the category of Small Scale Industries (SSIs), who are registered with NSIC, Public Sector Undertakings (PSUs) and Micro & Small Enterprises (MSMEs) the same shall be mentioned in their quote for evaluation.
4. IPRC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.
5. In case of imported items (stores), Ex-Works/FOB/FCA prices should be indicated. In case of indigenous stores the quotation should be on FOR-Destination / Door delivery basis.
6. ISRO PROPULSION COMPLEX (IPRC) is exempted from payment of Customs Duty under Notification No. 50/2017-Customs dated 30.06.2017 and as amended by Notification No.5/18 Customs dt:25/1/18. For imported items IPRC will provide Customs Duty Exemption Certificate for availing Concessional CD and IGST.
7. The offer should be valid for a minimum period of 120 days from the date of Technical bid opening & 90 days from the date of Price Bid opening (in case of two-part tender).
8. Offers sent through post, telegram, fax, e-mail, courier will not be considered. Partially completed / incomplete tenders shall not be considered.
9. The goods or material offered should be strictly as per our specifications. Change(s) in specifications, if any, should be clearly indicated by the supplier in his quotation. The supplier should also indicate make/type No. of the materials or equipment offered. Vague terms such as Best Indian,

Best Indigenous and Imported make should not be used.

10. Only authorized dealers/agents or their accredited representatives for original manufacturers have to submit the quotation with documentary evidence.

11. Indian Agents while quoting on behalf of their principals shall attach necessary authorization letter from their Principals along with the bid.

12. In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

13. If an Indian agent submits bid on behalf of the Principal/OEM, the same Indian agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product

14. a) Facility of after sales service to be confirmed with details.

b) Permanent Account Number (PAN) allotted by Income-Tax authorities shall be furnished with documentary proof. Otherwise, documentary proof for having applied for PAN should be provided. Also PAN should be in the name of Company/Firm, if quoted by the Company/Firm and in the name of Individual, if quoted by individual.

c) GST No.

d) Local office in Tirunelveli / Nagercoil is preferable.

Note: (b) to (d) are applicable for Indian Companies only.

15. PAYMENT: 100% through RTGS within 30 days from the date of receipt and acceptance of items at our site is the normal payment for Indigenous supply. In the case of direct Import, normal terms of payment are by Sight Draft / Wire Transfer after receipt of items. However, other terms of payment like establishment of Letter of Credit may be considered by the Purchaser on such terms and conditions as may be agreed upon.

16. SECURITY DEPOSIT : Security Deposit @ 3% of order value shall be submitted in the form of DD/FDR duly endorsed in favour of Accounts Officer, IPRC or by way of Bank Guarantee (in the prescribed format) within 30 days after receipt of order and valid up to the successful execution of the order.

17. PERFORMANCE BANK GUARANTEE :

The Supplier shall guarantee the successful and satisfactory performance/commissioning of equipment/machinery under the conditions specified in the Purchase Order. As a performance security, the SUPPLIER shall furnish a performance bank guarantee (in the prescribed format) from Nationalized Bank/Scheduled Bank for an amount equal to the sum of 3% of the order value ensuring the due performance of equipment/machinery in accordance with all the specifications and terms specified in the Purchase Order herein valid for the period of two months beyond warranty period. On

due performance, the performance bank guarantee shall be automatically cancelled and returned to the Supplier within 30 days after expiry of the Warranty period.

18. LIQUIDATED DAMAGES: Delivery is the essence of the contract. Items shall be delivered within stipulated period. If delivery is delayed beyond the stipulated delivery period mentioned in the purchase order or any extension thereof, an amount equal to 0.5% per week shall be recovered, subject to a maximum of 10% of the order value shall be deducted from your bills due.

19. GST where legally leviable and intended to be claimed should be distinctly shown separately in the tender. As per Notification No.45/2017 Central Tax(Rate) or Notification No. 47/17 Integrated TAX(Rate) of 14/11/17, We are eligible for availing Concessional GST@5% against certificate issued by an officer not below the rank of Dy. Secretary to Govt. of India.

20. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderer shall supply the same at the rates quoted.

21. Wherever the tenderer is asked to submit sample for evaluation of tenders, the same shall be submitted along with your quote.

22. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.

23. Last minute request for the extension of the due date w.r.t. any technical issue at Vendors/Suppliers side will not be considered. You may submit your quotation online well in advance instead of waiting till the last date to ensure that Internet problem and network condition does not cause problem.

4. STANDARD TERMS AND CONDITIONS (DOS PM: 20)

1. The Purchaser shall mean the President of India or his successors or assigns.

2. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

3. SECURITY DEPOSIT(SD):

The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (Three PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee (format enclosed) or Fixed Deposit receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.

4. GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 10% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser site.

(h) Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in para 4 (b) & (c) shall be the guarantee period plus two months.

5. PACKING FORWARDING & INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

6. DISPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on "said to contain" basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

7. TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents.

8. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 8 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

9. REJECTED STORES:

Rejected stores will remain at destination at the Contractor risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

10. DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 10 (b) above, the Contractor

shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to re-purchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

11. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 10 thereof.

12. ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

C. Bid Templates

C.1 Technical Bid - Supply, Installation and Commissioning of Liquid Particle Counter

1. Liquid Particle Counter supply of Installation and Commissioning

Item specifications for Liquid Particle Counter

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Description of item: a) Microprocessor controlled 16 channel particle counting system for contamination control and particle count analysis in liquids.	1 No.	Yes / No / Explain		
2	b) Integrated 500 µm x 500 µm. sensor, bottle sampling system for precise volume and flow control, counter electronics, font panel and printer.		-		
3	Flow rate: 25ml/min.		-		
4	Sensor range: 1-400 microns		-		
5	Sensor Orifice: 500 µm x 500 µm.		-		
6	Maximum concentration: 24,000 particle/ml. at a coincidence rate of 7.8%		-		
7	Sensor cell design: Volumetric cell design, Light obscuration principle		-		
8	Coincidence error: 7.8% at maximum concentration level		-		
9	Sampling mode: Pressure		-		
10	Pressure Range: Standard 0 to 70 psi (0 to 5 bar)		-		

11	Degassing unit: Vacuum		-		
12	Vacuum range: 0 to - 0.78 bar.		-		
13	Syringe size: 10ml (standard), stepper Motor controlled		-		
14	Syringe housing: Syringe covered in housing		-		
15	Minimum sample size: >10% of syringe volume		-		
16	Light source: Laser diode, 670 nm. 4.2mW		-		
17	Wetted surface materials: Stainless steel, Borosilicate glass, PTFE, NBR		-		
18	Housing : Housing covered with resistant polyester		-		
19	Printer: Internal thermal printer		-		
20	Display : LCD display		-		
21	Operating Environment: Ambient temperature 5 – 40 deg C		-		
22	Relative Humidity: Max. 70%		-		
23	Power : 230VAC, 50Hz		-		
24	Communication: Rs- 232 interface/USB		-		
25	Calibration: Calibration to ISO – 11171 NIST (Dynamic size range: 4 – 70 microns) Calibration to ISO 4402 (Dynamic size range: 1- 100microns)		-		
26	Sensitivity: 1µ sensitivity according to ISO 4402 4µ sensitivity according to ISO 11171		-		

27	Software for PC-remote control setup, analysis, calculation, storage of analysis data in 16 channels, printout of cumulative and differential results, cleanliness classes according to ISO 4406, NAS1638, SAE, GOST		-		
28	Accessories to be supplied with Liquid particle counter:		-		
29	Integrated Syringe Bottle Sampling System for particle counting and contamination analysis in oil. For batch sampling out of bottles, Size of sample bottle: maximum diameter: 7cm, maximum height: 18 cm.	1 No.	Yes / No / Explain		
30	Light Extinction sensor, Sensor orifice: 500 µm x 500 µm. Maximum particle concentration: 24,000 P/ml at a coincidence rate of 7.8%	1 No.	Yes / No / Explain		
31	Calibration according to ISO 11171 (Clause6) with test dust ISO-MTD. Calibration range: 4 – 70 µm(c)	1 No.	Yes / No / Explain		
32	Software license; particle measuring & analysis software. Provides a detailed analysis report via windows	1 No.	Yes / No / Explain		
33	Pump/Air dryer unit up to 5 bar assembled in compact frame.(if needed)	1 No.	Yes / No / Explain		
34	Calibration according to ISO 4402-1992 using AC sizing procedure. Calibration range: 1-100 µm	1 No.	Yes / No / Explain		

35	Sample Bottles with screw caps: 20 Nos.		-		
36	Item to be installed and commissioned at IPRC		-		

Document : Technical specification

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Description of item: a) Microprocessor controlled 16 channel particle counting system for contamination control and particle count analysis in liquids.		-		
2	b) Integrated 500 µm x 500 µm. sensor, bottle sampling system for precise volume and flow control, counter electronics, front panel and printer.	1 No.	Yes / No / Explain		
3	Maximum no. of channels	16	Yes / No / Explain		
4	Flow rate	25ml/min.	Yes / No / Explain		
5	Sensor range	1-400 microns	Yes / No / Explain		
6	Sensor Orifice	500 µm x 500 µm.	Yes / No / Explain		
7	Maximum concentration	24,000 particle/ml. at a coincidence rate of 7.8%	Yes / No / Explain		
8	Sensor cell design	Volumetric cell design, Light obscuration principle	Yes / No / Explain		

9	Coincidence error	7.8% at maximum concentration level	Yes / No / Explain		
10	Sampling mode	Pressure	Yes / No / Explain		
11	Pressure Range	Standard 0 to 70 psi (0 to 5 bar)	Yes / No / Explain		
12	Degassing unit	Vacuum	Yes / No / Explain		
13	Vacuum range	0 to -0.78 bar.	Yes / No / Explain		
14	Syringe size	10ml (standard), stepper Motor controlled	Yes / No / Explain		
15	Syringe housing	Syringe covered in housing	Yes / No / Explain		
16	Minimum sample size	>10% of syringe volume	Yes / No / Explain		
17	Light source	Laser diode, 670 nm. 4.2mW	Yes / No / Explain		
18	Wetted surface materials	Stainless steel, Borosilicate glass, PTFE, NBR	Yes / No / Explain		
19	Housing	Housing covered with resistant polyester	Yes / No / Explain		
20	Printer	Internal thermal printer	Yes / No / Explain		
21	Display	LCD display	Yes / No / Explain		
22	Operating Environment	Ambient temperature 5 – 40 deg C Relative Humidity: Max. 70%	Yes / No / Explain		
23	Power	230VAC, 50Hz	Yes / No / Explain		
24	Communication	Rs-232 interface/USB	Yes / No / Explain		
25	Calibration	Calibration to ISO – 11171 NIST (Dynamic size range: 4 – 70 microns) Calibration to ISO 4402 (Dynamic size range: 1-100microns)	Yes / No / Explain		

26	Sensitivity	1 μ sensitivity according to ISO 4402. 4 μ sensitivity according to ISO 11171	Yes / No / Explain		
27	Software	Software for PC-remote control setup, analysis, calculation, storage of analysis data in 16 channels, printout of cumulative and differential results, cleanliness classes according to ISO 4406NAS1638, SAE, GOST	Yes / No / Explain		
28	Accessories to be supplied with Liquid particle counter:		-		
29	1) Integrated Syringe Bottle Sampling System for particle counting and contamination analysis in oil. For batch sampling out of bottles, Size of sample bottle: maximum diameter: 7cm, maximum height: 18 cm.	1 No.	Yes / No / Explain		
30	2) Light Extinction sensor, Sensor orifice: 500 μ m x 500 μ m. Maximum particle concentration: 24,000 P/ml at a coincidence rate of 7.8%	1 No.	Yes / No / Explain		
31	3) Calibration according to ISO 11171 (Clause6) with test dust ISO-MTD. Calibration range: 4 – 70 μ m(c)	1 No.	Yes / No / Explain		

32	4) Software license; particle measuring & analysis software. Provides a detailed analysis report via windows	1 No.	Yes / No / Explain		
33	5) Pump/Air dryer unit up to 5 bar assembled in compact frame.(if needed)	1 No.	Yes / No / Explain		
34	Calibration according to ISO 4402-1992 using AC sizing procedure. Calibration range: 1- 100 µm	1No.	Yes / No / Explain		
35	7) Sample Bottles with screw caps	20 Nos.	Yes / No / Explain		
36	Item to be installed and commissioned at IPRC		-		

Supporting Documents required from Vendor

1. Warranty Certificate

2. Product conformatory certificate for sensor , laser diode and software used in the system

3. Callibration Certificate

4. Document 1

5. Document 2

6. Document 3

7. Document 4

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	To be Installed and commissioned at IPRC.	Yes / No / Explain	
2	VALIDITY OF OFFER (specify):	Yes / No / Explain	
3	DELIVERY PERIOD (specify):	Yes / No / Explain	
4	DELIVERY TERM : Normal delivery terms - FOR Destination (for Indigenous cases) & FOB/ FCA or Ex Works (Import cases). Specify your Offered delivery term.	Yes / No / Explain	
5	PAYMENT TERM:: 100% within 30 days after receipt and acceptance of item for Indigenous cases & Sight Draft for Import cases.(No advance payment is acceptable). Specify your Payment term.	Yes / No / Explain	
6	SECURITY DEPOSIT: The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (THREE PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee or Fixed Deposit Receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.	Yes / No / Explain	
7	Confirm: Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA	Yes / No / Explain	

8	LIQUIDATED DAMAGES : The delivery period / completion period shall be the essence of the Purchase Order. If the Supplier fails to meet delivery date within the time specified above or any extension thereof, the Department will recover from the Supplier as Liquidated Damages (LD) a sum of 0.5% of the total order value for each calendar week of delay subject to a maximum of 10% of the total order value. Confirm.	Yes / No / Explain	
9	Name of PRINCIPAL, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
10	Name of INDIAN AGENT, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
11	Currency quoted (specify)	Yes / No / Explain	
12	WARRANTY/GUARANTEE PERIOD: (specify)	Yes / No / Explain	
13	Taxes and other costs, if any: (specify). As per Notification No. 45/2017 - Central Tax and 47/2017-Integrated Tax (rate) dated 14/11/2017, we are eligible for concessional rate of GST @ 5%. Relevant Certificate shall be issued as and when required.	Yes / No / Explain	
14	PERFORMANCE BANK GUARANTEE: Performance Bank Guarantee (PBG) for 3% of the order value shall be submitted along with your Invoice/prior to final payment. It shall be valid till the warranty/ guarantee period and shall have an additional claim period of 60 days.	Yes / No / Explain	
15	Percentage of Local Content with documentary proof: (specify)	Yes / No / Explain	
16	If MSME, provide documentary proof: (specify)	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Item wise Packing & Forwarding Charges in %	Item wise Freight Charges in %	Item wise Third Party Inspection Charges in %	Item wise Testing Charges in %	Item wise Other Charges (If any) in %	Remarks
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1	Liquid Particle Counter supply of Installation and Commissioning	1.00 Nos.	-								
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Common charges (Applicable for all items)

1. Other Charges in Price (If any)	
2. Other Charges in Price (If any)	
3. Other Charges in Price (If any)	