



**PASTEUR INSTITUTE OF INDIA  
COONOOR-643 103 (NILGIRIS)**

*(Autonomous Institute under the Ministry of Health & Family Welfare,  
Govt. of India, New Delhi)*

Ph.0423 2231852, Fax - 0423-2231655, Email: purchasepiic@gmail.com

**LIMITED TENDER NOTIFICATION FOR THE SUPPLY AND INSTALLATION  
CLARIFICATION UNIT**

**BID REF.NO.PIIC/LTN-004/2019 DATED 22-02-2019**

**INTRODUCTION OF THE COMPANY**

The Institute started functioning as Pasteur Institute of Southern India, on 6th April 1907 and the Institute took a new birth as The Pasteur Institute of India (registered as a society under the societies Act 1860) and started functioning as an autonomous body under the Ministry of Health and Family Welfare, Government of India, New Delhi since the 10th of February, 1977. A governing body manages the affairs of the Institute. The Institute is a charitable organization working on a no profit-no loss basis.

Pasteur Institute of India (PIIC), Coonoor is one of the leading organization which are into the production of Antirabies Vaccine and DPT group of Vaccines for the EPI programme of Govt. of India.

The scope of work involved is detailed in the subsequent paragraphs and is precise to the extent possible. However it is expected from the supplier to consider and supply all those required for successful installation and commissioning of the equipment / system.

**SCOPE OF WORK**

The scope of work is **Supply and Installation of Clarification Unit as per the URS given in the Tender Document (Annexure-I)**

S.No	Equipment	Qty	EMD
1.	<b>Clarification Unit</b>	One No.	Rs.30,000/-

**DETAILS REGARDING IMPORTANT DATES ARE AS FOLLOWS:**

S.No.	Description	Schedule
i.	Closing date & time for receipt of Tender	22-03-2019, 15.00 Hrs
ii.	Time and date of opening of Technical Bids	22-03-2019, 15:30 Hrs
iii.	Pre-Bid meeting Details:	Date and Time: 05-03-2019, 11:00 hrs VENUE: PASTEUR INSTITUTE OF INDIA, COONOOR
iv.	Venue of opening of Tender	PASTEUR INSTITUTE OF INDIA, COONOOR.

The bids are invited for the **Supply and Installation of Clarification Unit** as per specification and other details given in the bid document. All bidders who qualify the eligibility conditions as detailed in the bid document are eligible to participate except in the case of firms who are blacklisted / barred by competent agencies in participation and award of such contracts.



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**1. Instruction to Bidders**

The bids are invited on two bid system. The bid will constitute a Technical bid and Financial bid. Technical bid and financial bid to be submitted in separate sealed envelope. Technical bid cover along with EMD cover & financial bid cover should be kept in a separate single cover. Both the covers should be put in a single cover which should be superscribed as "**Tender for the supply and installation of Clarification Unit**" due on **22- 03-2019 by 15.00 Hrs.**" without fail. **The Tender Reference Number should also be mentioned on the cover without fail.** The covers containing the tenders should be sent to us on or before the due date. The tenders must reach the "**Director, Pasteur Institute of India, Coonoor**" not later than 15.00 Hrs on 22-03-2019. The financial bid of the technically qualified parties will only be opened for financial evaluation.

- 1.1 Bidders can send their queries and clarifications to address given in clause 1.2 or by email purchasepiic@gmail.com, up to three days prior to the due date of bid submission.
- 1.2 Bids shall be addressed by designation only to:  
The Director  
Pasteur Institute of India,  
Coonoor – 643 103.  
Nilgiris, Tamilnadu
- 1.3 Due date of submission of the bid will be on **22-03-2019, upto 15:00 Hrs.** The technical bid will be opened on the same day at **15:30 hrs.** The financial bid of only those bidders who are qualifying the minimum eligibility criteria & technical specification will be opened. The date & time of financial bid opening shall be intimated separately to the technically qualified parties.
- 1.4 Tenders shall be valid for 120 days from the date of technical bid opening.
- 1.5 The tenders once submitted shall remain valid upto 120 days and the tender will not be entitled to withdraw the tenders or to suggest any change therein within the said period.
- 1.6 Tenders should contain complete technical specification of the equipment along with detailed illustrations and diagrams to facilitate evaluation.



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**2. Mode of submission of Tenders:**

- a. Tender Cost/Tender fee:** Deleted

**2.1 DOCUMENTS TO BE SUBMITTED ALONG WITH THE TECHNICAL BID**

- a. EMD (Earnest Money Deposit) amount of Rs.30,000.00 (Rupees Thirty Thousand only) shall be submitted in the form of Demand Draft in favour of “*The Director, Pasteur Institute of India*” payable at Coonoor.
- b. **Annexure-IV** - Bid data sheet.
- c. **Annexure-V** - Past experience, including Performance Certificate from clients. All other supporting documents (mentioned in clause 3) and certificates substantiating the bidder’s eligibility shall be attached.
- d. **Annexure-VII** - (Manufacturer Authorization Form)
- e. Details specifications / Drawings

**2.2 DOCUMENTS TO BE SUBMITTED ALONG WITH THE FINANCIAL BID**

- a. **Annexure-II** - Schedule of requirement.
- b. **Annexure-III** - Price schedule for AMC/CMC after warranty period.
- c. **Annexure-VI** - Bid form

**3. Minimum Eligibility Criteria**

- 3.1 The Tenderer has to be a manufacturer or authorized dealer of the Schedule equipment (OR) has to be an authorized Indian representative / agent of the original equipment manufacturer/s of the Scheduled equipment. In case of authorized dealer / agent, the Manufacturer’s Authorization certificate / Form (as shown in Annexure – VII of the tender document) from the Manufacturer to be attached.
- 3.2 The bidder must have proven and demonstrable experience in supply of scheduled equipment provided for the last five financial years. (Copy of Purchase orders (PO) to be provided).
- 3.3 The bidder must have supplied, installed and commissioned similar to the type as specified in the schedule at least 50% of the quantity required during the last five financial years as per the schedules mentioned above. Completion certificates / Handing over report/ Proof to be provided.
- 3.4 Net worth of the company shall be positive during the last three financial years. The balance sheet, profit and loss account for last three financial years certified by a Chartered Accountant shall be submitted.



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- 3.5 The Average Annual Turnover of the tenderer for the last three financial years certified by a Chartered Accountant shall be submitted.

**4. COUNTRY OF ORIGIN**

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word “origin” incorporated in this clause means the place from where the goods are manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

**5. Bid Evaluation**

Bid determined to be substantially responsive will be checked by PIIC for any arithmetic errors and the same will be corrected as follows:

- a. Where there is a discrepancy between the rates in figures and in words, the rates in words will prevail.
- b. Where there is a discrepancy between the unit price and the total price resulting from the multiplying the unit price by the quantity, the unit price as quoted shall prevail.
- c. The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.

**6. Tender Price & Documents**

**I. For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:**

- a. The price of the goods should be quoted on **FOR PII COONOOR basis** with the detailed breakup of ex-factory/ex-showroom/ex-warehouse/off-the-shelf, as applicable, including all taxes and duties like GST, Custom Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
- b. Any sales or other taxes and any duties, which will be payable on the goods in India, if the contract is awarded.



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- c. Charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from their warehouse to the PIIC for a period, including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule.

**II. For goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:**

- a. The price of goods quoted should be on **FOR PII COONOOR** basis at site in India as indicated in the List of Requirements, Price Schedule.
- b. The charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from warehouse to the PIIC for a period including 3 months beyond date of delivery

**FOR PII COONOOR** price will be considered for comparison and evaluation.

**7. DISTRIBUTION OF DISPATCH DOCUMENTS FOR CLEARANCE/RECEIPT OF GOODS**

- 7.1 The supplier shall send all the relevant dispatch documents well in time to the Purchaser/Consignee, to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract.
- 7.2 The usual documents involved and the drill to be followed in general for this purpose are as follows.
- 7.3 Within 24 hours of dispatch, the supplier shall notify the purchaser/consignee, and others concerned if mentioned in the contract, the complete details of dispatch and also supply the following documents to be submitted as per the instruction of purchaser:
- Three copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
  - Two copies of packing list identifying contents of each package.
  - Inspection certificate issued by the nominated Inspection agency, if any.
  - Certificate of origin
  - Insurance Certificate
  - Manufacturers/Supplier's warranty certificate & In-house inspection certificate.



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**8. EXEMPTIONS/FORMS**

PIIC will not be giving any duty exemption, GST Concession form.

**9. REJECTION OF BIDS**

Notwithstanding the above conditions, PIIC reserves the right to accept or reject any offer, and to annul the tender process and reject all offers, at any time prior to award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the grounds for PIIC action.

**10. NOTIFICATION OF AWARD**

- 10.1 Prior to the expiry of the period of offer validity prescribed by PIIC, PIIC will notify the successful Bidder by Fax or email, to be confirmed in writing by registered post/ by courier, that his offer has been accepted. The purchase order will be issued to the successful bidder. No correspondence will be entertained by PIIC from the unsuccessful Bidders.
- 10.2 Upon selection of the successful bidder (technically qualified L1 party) PIIC will promptly notify the same to successful Bidder through a Purchase Order.
- 10.3 EMD's of unsuccessful bidders will be returned only after finalizing the L1 Party and EMDs of technically non-responsive bidders will be returned after financial bid opening.



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**TERMS AND CONDITIONS**

**1. DEFINITION:**

- 1.1. For the purpose of this contract, the following words and expressions shall have the meaning hereby assigned to them except where the context otherwise requires:-
- "PIIC" means Pasteur Institute of India, Coonoor, which expression shall unless excluded by or repugnant to the context include PIIC's representative.
  - "Contractor/ Bidder" Means successful lowest bidder.
  - "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
  - "Performance Security" means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
  - "Consignee" means the organization/person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of dispatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.

**2. PAYMENT SCHEDULE:**

Payment shall be made as specified in the contract in the following manner:

Sl.No	Stage	Percentage (%)
1.	After supply, successful Installation & Commissioning, submission of all documents such as IQ, OQ, calibration certificate etc., & Final Acceptance approved by authorized PIIC's Representative	100% of the order value

**3. ANNUAL MAINTENANCE CONTRACT/ COMPREHENSIVE MAINTENANCE CONTRACT CHARGES:**

- The Purchaser will enter into AMC/CMC with the supplier at the rates as stipulated in the contract, three months prior to completion of warranty period. The payment of AMC/CMC will be made on half yearly basis after satisfactory completion of said period, duly certified by the Purchaser.
- However, entering into an agreement on AMC/CMC with the Supplier on completion of warranty period is the sole discretion of the Purchaser.



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**4. TAXES AND OTHER LEVIES**

The quoted price shall be inclusive of all applicable taxes and duties.

- a. The cost of AMC/CMC which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any). The supplier shall visit PIIC as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period.
- b. The cost of AMC/CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- c. Cost of AMC/CMC will be added for Ranking/Evaluation purpose.
- d. The payment of AMC/CMC will be made on six monthly basis, after satisfactory completion of said period, duly certified by end user.
- e. During AMC/CMC period, the supplier is required to visit consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- f. All software updates should be provided free of cost during AMC/CMC.

**5. PERFORMANCE SECURITY**

- 5.1 Successful tenderer will have to furnish Performance Security @ 5% of the total contract value in the form of a Demand Draft drawn in favour of The Director, Pasteur Institute of India, Coonoor payable at any Nationalized Bank in Coonoor, Nilgiris.

However, the Earnest Money Deposit paid alongwith the tender will be adjusted/transferred towards Performance Security those tenderers who submit the EMD by way of Demand Draft. The balance amount, if required, towards Performance Security after adjusting/transferring the Earnest Money Deposit will have to be furnished.

- 5.2 Failure of the successful Bidder to furnish the required Performance Security shall constitute sufficient grounds for the annulment of the award of Contract and shall forfeit the Performance Security.

- 5.3 Forfeiture of Performance Security:  
In case, the Contractor/ Bidder fails to complete the work, PIIC, without prejudice to rights and remedies available under the contract, shall forfeit and en-cash the Performance Security.





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- 5.4 Is case, the bank goes in liquidation or for any reason is unable to make payment against the said Bank Guarantee, the loss caused thereby shall be borne by the Contractor/ Bidder. The Contractor/ Bidder forthwith, on demand from PIIC, shall make good the deficit.

**6. ADDITIONS/DELETIONS**

- 6.1 PIIC shall have the right to direct in writing for changes, additions, modifications or deletions in the design and drawings or any part of the work and to request in writing additional work in connection therewith and the Contractor/ Bidder shall comply with such directions.
- 6.2 The Contractor/ Bidder shall not make any deviations, alterations, additions, to or omissions from the work shown/described and awarded to the Contractor/ Bidder except through and with proper approval of PIIC.

**7. TIME SCHEDULE**

- 7.1 The day of commencement of delivery period will be reckoned from the date of issue of Purchase order.
- 7.2 The material shall be delivered and installed at site within 2 months from the date of issue of purchase order or as per delivery terms mentioned in the Purchase Order.
- 7.3 The Final Acceptance Certificate shall be issued on completion of the entire scope of supply by the vendor.
- 7.4 The supply and installation shall be carried out with all due diligence and as per the time schedule specified above. In case of any delay/default, of the Contractor/ Bidder to adhere to the agreed time schedule, PIIC shall recover the liquidated damages from the Contractor/ Bidder at the rate of 0.5% (Zero point Five percent) of the total amount of fee per week of delay of any activity subject to a maximum of 5% (Five percent) of the total order value. However, if there is a purposeful delay by the Contractor/ Bidder, PIIC reserves all rights to terminate the contract and get the full work executed at his risk and cost.

**8. EXTENSION OF TIME**

- 8.1 To adhere to the above mentioned time schedule the Contractor/ Bidder shall provide on demand necessary documents, information and certificates/ undertakings to PIIC. Any delay in supplying the requisite documents and delay due to any other cause beyond the control of the Contractor/ Bidder shall be considered for grant of extension of time. If the Contractor/ Bidder require extension of time, they shall intimate in writing to PIIC within 3 days of the occurrence of such hindrance/delay, along with proper documents.



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8.2 PIIC after satisfying itself about the reasonableness of grounds may grant extension of time, if it is justified and communicated the same in writing. Whenever such extension of time is granted, it would be without prejudice to the rights of PIIC for any penal action to the extent of the delay attributable to the Contractor/ Bidder. Any extension of time granted as stated above shall neither entitle the Contractor/ Bidder to any claim for increase in their fees nor shall it release him from any of the obligations under the said agreement.

**9. ABANDONMENT OF WORK**

9.1 If the Contractor/ Bidder/ supplier abandons the work for any reason whatsoever or becomes incapacitated as aforesaid, PIIC shall forfeit/en-cash the Performance Guarantee. PIIC shall be at liberty to make full use of all or any of material supplied by the Contractor/ Bidder/ supplier. The Contractor/ Bidder/ supplier shall also be liable to refund all the charges paid to him up to date plus such damages as may be assessed by PIIC including the recovery of liquidated damages.

9.2 Provided, however, that in the event of the termination of the agreement under proper notice as provided in the clause hereinafter, the Contractor/ Bidder shall be liable to refund any excess payment made to him over and above which is due to him in accordance with the terms of this agreement, for the work executed by him till the date of termination of agreement.

**10. WARRANTY**

10.1 The bidder shall give warranty of the equipment for a minimum period of 1 **year (One year)** from the date of final acceptance certificate from PIIC. PIIC shall grant right of access to the Contractor/ Bidder, of this portion of the work claimed to be defective for inspection and rectification.

10.2 PIIC may recover the loss from the dues of the Contractor/ Bidder in case of failure to comply with the above clause.

**11. DETERMINATION AND RESCISSION OF TERMS & CONDITIONS**

11.1 When the Contractor/ Bidder have made himself liable for action under any of the clauses aforesaid, PIIC shall have powers:

11.2 To rescind the agreement to engage another Contractor/ Bidder to carry out the balance work debiting the Contractor/ Bidder the extra amount, if any, so spent for getting the balance work done.

11.3 This amount would be in addition to the recovery of liquidated damages.



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**12. GENERAL**

- 12.1 The Contractor/ Bidder shall be fully responsible for the technical soundness of the material and also ensure that the material is supplied as per the specifications.
- 12.2 The Contractor/ Bidder hereby agrees that the charges to be paid as provided herein will be in full discharge of functions to be performed by him and no claim whatsoever shall be made against PIIC in respect of any proprietary rights or copy right on the part of any other party relating to plans, models and drawings.
- 12.3 The Contractor/ Bidder shall indemnify and keep indemnified Pasteur Institute of India against any such claims and all costs and expenses paid by PIIC in defending such claims to be borne by the Contractor/ Bidder.
- 12.4 The Contractor/ Bidder hereby agrees that PIIC shall have the right to take out any of the activities, which in the opinion of PIIC is not being performed by the Contractor/ Bidder with due diligence, and within the agreed time schedule, and which can be performed independently. The fees or the expenses incurred shall be debited to the Contractor/Bidder.

**13. ARBITRATION**

- 13.1 All disputes or differences whatsoever arising between the parties out of or relating to the Contractor/ Bidder services, meaning and operations or effect of this contract or the breach thereof shall be settled by arbitration. Matters to be arbitrated upon shall be referred to a sole Arbitrator, to be appointed by PIIC and the award made in pursuance thereof shall be binding on the parties. Such arbitration shall be governed by the Indian Arbitration and Conciliation Act 1996.
- 13.2 The place of arbitration shall be at **Udhagamandalam**.



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**14. FALL CLAUSE**

The prices charged for this particular service/supply under the Contract by the supplier/service provider shall in no event exceed the lowest price at which the supplier/service provider sells the service/supply of identical description to any person(s)/organization (s) including the Purchaser or any Department of the Central Government or any Department of a State Government or any statutory undertaking of the Central or a State Government, as the case may be, during the period till performance of all Supply Orders placed during the currency of Rate Contract is completed.

**15. STATUTORY VARIATIONS**

In case of statutory variation in regard to taxes/levies, within the stipulated date of completion of individual agreement, the same shall be paid or recovered as per the actual against documentary proof. However beyond this period PIIC will take advantage of any reduction in taxes/levies but will not pay extra on account of increase in taxes/levies.

**Sd/-**

**DIRECTOR**



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<b>PASTEUR INSTITUTE OF INDIA, COONOOR</b>	
<b>User Requirement Specifications</b>	
<b>Equipment/ System</b>	<b>Clarification Unit</b>
1.	<p><b>1.0 EQUIPMENT DESCRIPTION</b></p> <p>The equipment described by this URS is a ‘<b>Clarification Unit</b>’ (quantity – 1NO.) This semi-automatic clarification unit will be used for the clarification process after the Digestion and Deferration of the papain digest medium which is the production medium for the cultivation of Corynebacterium diphtheria for toxin production.</p> <p>The system shall be equipped with pressure transmitter, temperature transmitter, pressure gauge, manual diaphragm valves and pneumatic diaphragm valves. The system is being controlled by control cabinet. Control cabinet shall control the pneumatic diaphragm valves during process and CIP/SIP process.</p> <p>The system is considered to be a typical package units assembled and tested completely at the Vendor’s workshop.</p> <p><b>1.1. SCOPE OF SUPPLY</b></p> <p>It shall be skid mounted system (with castor wheel) to accommodate feed tank, pump for feed intake and other accessories.</p> <p><b>1.2</b> Other accessories required with the system are mentioned below</p> <p>Pressure Gauges/indicators. Pneumatically actuated valves is required Manual diaphragm valves Interconnecting sanitary process piping shall be Silicon pipe with the diameter- 1 inch. Fittings (Triclover clamps, reducer ( if required) etc) Non return valve(NRV) Instrumentation air assembly control(prefilter, regulator, pressure switch, valve assembly, etc) (prefilter size and surface area vendor to comment) Skid mounted with complete assembly.</p> <p><b>1.3 ADDITIONAL REQUIREMENTS</b></p> <p>Calibration of measuring instruments according to International Standards, full –loop calibration is required for GMP and quality relevant instruments. The supplier has to provide calibration protocols and guidelines for writing SOPs for recalibration Capable of connection to CIP Trolley for input and output of cleaning solutions</p>
2	<p><b>2.0 REFERENCE STANDARD/GUIDELINE FOR EQUIPMENT</b></p> <p>The equipment should comply with the following guideline/standard</p> <p><b>2.1 GMP- REGULATIONS</b></p> <p>EU-GMP-Guideline Part 1, Annexure 1,11 &amp; 15. Schedule M of Indian Drugs and Cosmetics Act. WHO Good Manufacturing Practices – Main Principles for Pharmaceutical Products. WHO Good Manufacturing Practices for biological products.</p>



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	<p><b>2.2 FDA GUIDANCE FOR INDUSTRY</b></p> <ul style="list-style-type: none"> <li>• Sterile Drug products produced by Aseptic Processing. Documentation for Sterilization Process Validation</li> </ul>
	<p><b>Note :</b> This URS has been prepared based on our in – house knowledge &amp; understanding for this equipment. It is possible that certain points might have been overlooked. As a vendor we expect you to go through the document in depth and give your suggestions separately as option. However, the base offer shall be as per the URS. All suggestion and deviations shall be highlighted and summarized separately.</p>
	<p><b>3. PROCESS DESCRIPTION :-</b> <b>3.1 INPUT &amp; CHARGING METHOD</b> 3.1.1 CIP of the system shall be done with WFI and CIP recipe with the help of pump (capacity- 3hp, 2.2kw), pneumatic valves, and manual diaphragm valve and pressure indicator from a standalone CIP Trolley.</p>
	<p><b>3.2 BRIEF PROCESS STEPS</b> 3.2.1 The equipment will be used for clarification process of the production medium namely Papain Digest Medium(PDM) for the cultivation of Corynebacterium diphtheria Media from the digestion vessel with process volume 500 liters at Digestion stage and Deferration stage shall be processed into the system with the help of Pump.</p>
	<p><b>3.3 OUTPUT &amp; DISCHARGING METHOD:-</b> 3.3.1 After clarification process, the clarified broth shall be sent for formulation with other Ingredients prior to sterile filtration.</p>
	<p><b>4.0 PRODUCTIVITY REQUIREMENT</b> <b>4.1 DESIRED/SUGGESTED CAPACITY</b> 5µm or less pore size cloth filter / equivalent suitable for 500 liters. Multi staking arrangement.( vendor to clarify surface area for processing 500liters)</p>
	<p><b>NOTE:-</b> <b>Digested meat usually in paste form shall be present in the preparation stage.</b> <b>Multiple set of funnels with chain cloth is used for the Clarification of the broth to obtain clear broth which will be Stage 1.</b> <b>In stage 2 the clear broth is treated with Baker’s Yeast of about 4gm/lit. After a Resident time of 1 hr the Yeast is killed at 80°C and the broth passed through frame and press type filters fixed with 20 x 20 inch non-asbestos pads currently.</b>  The above information provided is for better understanding.</p>
	<p><b>4.2 STANDARD BATCH SIZE:-</b> System capable of processing 500 Lt (Single jacket). Process time of 2 hr.</p>



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	<p><b>4.3 CHANGE OVER TIME:-</b>  4.3.1 Vendor shall ensure minimum time for change over  4.3.2 To fix the right position of the format parts, they are to be marked with markings/ dowels.</p>
	<p><b>5.0 SAFETY REQUIREMENT :-</b>  <b>5.1 GENERAL</b>  Following facilities must be provided to protect personal, product and equipment  5.1.1 In the event of equipment malfunction or loss of utilities , the unit must contain all necessary protection devices to ensure that the equipment and the article remain in a safe condition.  5.1.2 For the safety of the operator the external surfaces should not have temperature more than 45°C.  5.1.3 Warning stickers on all hot surfaces.  5.1.4 Equipment plate with the information about the system shall be provided on the system.  5.1.5 The chassis shall be equipped with the castor wheel with break and adjustable pad as well.  5.1.6 Proper earthing of the equipment.</p>
	<p><b>5.2 POWER FAILURE AND RECOVERY:-</b>  5.2.1 On power failure equipment shall come to rest, to protect operator, equipment itself and the product.  5.2.2 Power restart must not be automatic-human intervention must be required</p>
	<p><b>6.0 GMP REQUIREMENTS</b>  <b>6.1 PROCESS CONTROL</b>  6.1.1 Following parameters shall be controlled automatically/manually.  a) Pressure.  b) The drain valve position and control.  c) Parameters during CIP.    <b>6.2 FAILURE MODE DETECTION</b>  a) Emergency stop activated( manual shut down)    <b>6.3 IN-PROCESS CONTROL</b>  6.3.1 Pressure control of the process</p>



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<b>6.4 LEVEL OF INSTRUMENTATION</b>		
Sufficient and suitable instrumentation for the process safety and productivity control as indicated in the following table.		
<b>Parameters</b>	<b>Purpose</b>	<b>Instruments</b>
Pressure Utility line limit should be 6 BAR Vessel limit should be 2 BAR	Monitor and control the pressure.	Pressure gauge indicator and pressure transmitter
Valve arrangement	To control pressurized utility	Pneumatic diaphragm valve.
Instrument air pressure	To maintain the flow and pressure of the instrument air	Regulator with pressure switch
<b>6.5. CLEANING REQUIREMENT:-</b>		
<b>Parameters</b>	<b>Purpose</b>	<b>Instruments</b>
Pressure Utility line limit should be 6 BAR Vessel limit should be 2 BAR	Monitor and control the pressure.	Pressure gauge indicator and pressure transmitter.
Valve arrangement	To control pressurized utility.	Pneumatic diaphragm valve.
Instrument air pressure	To maintain the flow and pressure of the instrument air	Regulator with pressure switch
<p>6.5.1 The equipment shall be easily accessible for cleaning.</p> <p>6.5.2 The CIP process shall be for cleaning of all parts in contact with product.</p> <p>6.5.3 All bolts, nuts on the exterior part of equipment will be with cap head or cap nut.</p> <p>6.5.4 Equipment parts shall be easily dismantle-able and cleanable by manual cleaning.</p> <p>6.5.5 The outer surface shall be easy to clean, without grooves and pockets to reduce risk of all contamination.</p> <p>6.5.6 The filtration unit and sanitary piping shall be capable of easy and effective clean in Place (CIP) aseptic design.</p> <p>Note: CIP Trolley is available which shall be used.</p>		
<b>6.6 QUALIFICATION REQUIREMENT</b>		
6.6.1 Equipment shall be qualified for design phase(DQ), Installation phase(IQ), Operational phase (OQ), and the Performance phase (PQ).		
6.6.2 Vendor shall execute IQ and OQ protocols and support PQ activity.		
<b>6.7 MATERIAL OF CONSTRUCTION</b>		
6.7.1 All metallic product (wetted parts) should be constructed of SS 316L., e.g. process piping, filter housing, valve, etc		
6.7.2 All metallic non-product contact surface should be constructed of SS304 grade Stainless steel or better with external surface matt finish.		





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<p><b>6.7.3 SURFACE FINISH</b></p> <p>Internal Finish (wetted parts): Housing, piping, valves &amp; instrument Ra&lt;0.5µm (electro polished and passivated). External finish Ra&gt; 1.2 µm (mechanical polished and passivated).</p> <p>6.7.4 Supporting frame shall be SS 304(matt finish) with castor wheel along with stoppers</p> <p>6.7.5 All welds should be ground finished.</p> <p>6.7.6 Nozzle shell shall be seamless</p> <p>6.7.7 Nozzle connection to be Forged Triclover.</p> <p>6.7.8 Total motor drive assembly with SS304 cover with TEFC eff 1.</p> <p>6.7.9 Gaskets for nozzles shall be elastomers (EPDM) compliant to CFR 21 section 177.2600 as well as USP Class V</p>
<p><b>6.8 TRAINING</b></p> <p>6.8.1 A special training for operators is to be considered.</p> <p>6.8.2 The Vendor shall provide start-up services through successful completion of the site acceptance test. The site acceptance test will be a repeat of the factory integration test performed at the Vendor's facility.</p>
<p><b>6.9 GMP REQUIREMENTS:-</b></p> <p>6.9.1 Vendor to give code numbers for each component.</p> <p>6.9.2 Equipment must be designed for clean operation.</p> <p>6.9.3 All process relevant wiring has to be executed in fail safe manner.</p> <p>6.9.4 Manual welding for clean media are only allowed where orbital welding are not possible. 100% endoscopic examination of clean media piping is included. Traceability is given from the welding to the welders.</p> <p>6.9.5 All parts of the machine exposed in clean room must be resistant to standard disinfectants or vendor shall provide the name of specific disinfectants.</p> <p>6.9.6 Equipment valves and instrumentation shall be uniquely identified in accordance with a standard numbering and location system. The system will be agreed between vendor and client at the time of order.</p> <p>6.9.7 These unique identifiers will be shown on all process &amp; Instrumentation ( P&amp;I) drawings and General Arrangement drawing.</p> <p>6.9.8 All valves and instruments are to be physically labeled with their equipment numbers.</p>



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**ANNEXURE – II**

**PART A**

**SCHEDULE OF REQUIREMENT**

**Clarification Unit**

Sl.No.	Description of the equipment	Unit	Total Qty	Unit Rate (Rs)	GST	Total Amount with Taxes (Rs)
	<b>Total Amount in (Rs)</b>					

NB: Unit price shall be written in figures and words

Total Tender price in Rupees: \_\_\_\_\_

In Words: \_\_\_\_\_

**Note:**

If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

Place: \_\_\_\_\_ Signature of Tenderer \_\_\_\_\_

Date: \_\_\_\_\_ Seal of the Tenderer \_\_\_\_\_

**(to be submitted in the supplier's letter head)**





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**ANNEXURE – IV**  
**BID DATA SHEET**

<b>S.No</b>	<b>Description</b>	<b>Details</b>
1.	Bid Reference number	BID Ref. No. PIIC/LTN/004/2019 dated 22-02-2019
2.	Due date for submission	22-03-2019 UPTO 15:00 HRS
3.	Name & Address of bidder	
4.	Year of establishment	
5.	Type of the firm	Public Ltd/Pvt Ltd./Partnership/Regd. firm
6.	Name & Address of Directors/Partners	1. 2.
7.	PAN Number	
8.	Contact Phone-Office	
9.	Cell	
10.	Email	
11.	Copy of MOA/Partnership deed/Registration	Attached/Not Attached
12.	Copy of PAN of Directors/Partners	Attached/Not Attached
13.	Latest IT return statement	Attached/Not Attached
14.	Past three years P & L, Balance Sheet	Attached/Not Attached
15.	All pages of bid document duly sealed and signed by the authorized person	Attached/Not Attached
16.	Power of Attorney/Authorization to sign the bid	Attached/Not Attached
17.	Manufacturer's authorization letter	Attached/Not Attached
18.	EMD (in favor of M/s. Pasteur Institute of India, Coonoor in the form of Demand Draft/Banker's cheque from a nationalized or scheduled bank, payable at Coonoor.	Attached/Not Attached

**(to be submitted in the supplier's letter head)**



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**ANNEXURE –V**

**Details of Projects for which Equipments (Technical specification as per Annexure –I)  
were supplied & installed in the last TWO years**

Sl. No	Name and location of the Project	Name and address of the Client	Project Details		Completion Date
			Details of the items supplied	Project Value Rs Lakhs	
1					
2					
3					
4					
5					
6					

Satisfactory completion certificates from the clients to be attached.

**(to be submitted in the supplier's letter head)**



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**ANNEXURE – VI**

**BID Ref. No. PIIC/LTN /004/2019 dated 22-02-2019**

**BID FORM**

**Item:**

Having examined the bidding documents, including amendments of which is hereby acknowledged, we the undersigned, offer to execute the contract including the supply and delivery of the goods (FOR PII Coonoor) in full conformity with the said bidding documents for the sum of:

**In Fig:**

**In Words**

(Hereinafter call: The Total Bid Price”) or such other sums as may be determined in accordance with the terms and conditions of the Contract. The above amounts are in accordance with the Price Scheduled attached herewith and are made part of this bid.

We undertake, if our bid is accepted, to execute the contract in accordance with the delivery schedule specified in the schedule of requirements.

If our bid is accepted, we undertake to provide a performance security in the form, in the amounts, and within the times specified in the Bidding Documents.

We agree to abide by this bid, for the Bid Validity period specified in their Bid Data Sheet and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

Until the formal final Contract is prepared and executed between us, this bid, together with your written acceptance of the bid and your notification of award shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any bid you may receive.

Dated:

Signed by:

In the capacity of

**(to be submitted in the supplier’s letter head)**



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**Annexure-VII**

**MANUFACTURER'S AUTHORISATION FORM**

To  
**The Director  
Pasteur Institute of India  
Coonoor 643 103**

Dear Sir,

Ref. Your Tender document No \_\_\_\_\_, dated \_\_\_\_\_

We, \_\_\_\_\_ who are proven and reputable manufacturers of \_\_\_\_\_ (*name and description of the goods offered in the tender*) having factories at \_\_\_\_\_, hereby authorize Messrs \_\_\_\_\_ (*name and address of the agent*) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs. \_\_\_\_\_ (*name and address of the above agent*) is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, AMC/CMC as applicable for the goods and services offered for supply and installation by the above firm against this Tender Document.

Yours faithfully,

[*Signature with date, name and designation*]

for and on behalf of Messrs \_\_\_\_\_

[*Name & address of the manufacturers*]

**NOTE:**

*This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer*