

**GOVERNMENT OF JHARKHAND**  
**DEPARTMENT OF AGRICULTURE, ANIMAL HUSBANDARY AND COOPERATIVE,**

**OFFICE OF ASSISTANT DIRECTOR AGRICULTURE, QUALITY CONTROL**  
**(FERTILIZER) LABORATORY, RANCHI, JHARKHAND**  
**Very Short Tender Notice for Invitation of Bids**

Sealed tender in prescribed Performa are invited in two bid system- (1) Technical bid (2) Financial bid from manufacturers/authorized distributors/dealers/registered suppliers/ reputed firms / government undertakings for supply of laboratory equipments, glassware, chemicals, CAMC/AMC of A.A.S. etc.

A Complete set of Tender Documents may be downloaded from website – [www.atmaranchi.in](http://www.atmaranchi.in) & [www.sameti.org](http://www.sameti.org)

**Details are given below:-**

1.	<b>Tender Reference No.</b>	01/Goon niyantran/04/2023-24/1
2.	<b>Name of Work</b>	Supply of laboratory equipments, glassware, chemicals, CAMC/AMC of A.A.S etc .
3.	<b>Tender Document Cost (Non- Refundable)</b>	Rs. 1000
4.	<b>Date of Publication of Tender Document on website</b>	29.12.2023
5.	<b>Document Download Period Starts from</b>	29.12.2023
6.	<b>Bid Submission Period</b>	29.12.2023 to 8.1.2024 (11.00 AM )
7.	<b>Last date of submission of bid Tender Fee &amp; EMD</b>	8.1.2024 (11.00 AM )
8.	<b>Technical Bid Opening Date</b>	9.1.2024 (2.00PM )
9.	<b>Financial Bid Opening Date</b>	9.1.2024 (4.00 PM)
10.	<b>Bid Opening Place</b>	<u>Office of Assistant Director Agriculture, Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand.</u> <i>Krishi Bhawan Campus, Kanke Road, Ranchi</i> <i>Pin. No. - 834008, (Jharkhand)</i>
11.	<b>Name Designation &amp; Address of the officer Inviting Tender</b>	Satya Prakash, <u>Assistant Director Agriculture, Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand.</u> <i>Krishi Bhawan Campus, Kanke Road, Ranchi</i> <i>Pin. No. - 834008, (Jharkhand)</i>
12.	<b>Contact no. &amp; e.mail id of the officer Inviting Tender</b>	9334051118 / adafqclrnc@gmail.com

**Address for Communication, Place of Submission of Documents**

Office of Assistant Director Agriculture, Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand.  
Krishi Bhawan Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)

Assistant Director Agriculture,  
Quality Control(Fertilizer) Laboratory,  
Ranchi , Jharkhand

**GOVERNMENT OF JHARKHAND**  
**DEPARTMENT OF AGRICULTURE, ANIMAL HUSBANDARY AND COOPERATIVE,**  
**PROffice of Assistant Director Agriculture,Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand**  
**Krishi Bhawan, Campus, Kanke Road, Ranchi**  
**Pin. No. - 834008, (Jharkhand)**

**TENDER NO.01/Goon niyantran/04/2023-24/1 PR. NO.314378 (Agriculture) 23-24(D)**

Sealed tender in prescribed Performa are invited in two bid system- (1)Technical bid (2) Financial bid from manufacturers/authorized distributors/dealers/registered suppliers/ reputed firms / government undertakings for. Supply of laboratory equipments, glassware, chemicals, CAMC/AMC of A.A.S etc .

Tender document can be downloaded from website:[www.atmaranchi.in](http://www.atmaranchi.in)& [www.sameti.org](http://www.sameti.org)and tender fee can be submitted with the tender in the form of DD payable to “SahayakkrishiNideshak, Goon Niyantran (Urvarak )Pryogshala, Ranchi” payable at Ranchi and placed in a separate envelope marked “Tender Fee & EMD” and should be kept in the bigger envelope for Technical Bid .

a) Date of Publication of Tender – Tender will be published on 29.12.2023 Document can be downloaded from the website [www.atmaranchi.in](http://www.atmaranchi.in)& [www.sameti.org](http://www.sameti.org)Cost of Tender documents – Rs. 1000/- (One thousand only)(Non-refundable) in the form of demand draft in favour of “SahayakkrishiNideshak, Goon Niyantran (Urvarak )Pryogshala, Ranchi” payable at Ranchi

b) Documents download period – From 29.12.2023 to 8.1.2024 up to 11.00 am.

c) Bid submission period - From 29.12.2023 to 8.1.2024 up to 11.00 am.

Last date of submission of bid document ,tender fee, and EMD 8.1.2024 till 11.00 am at the Office of Assistant Director Agriculture, Quality Control(Fertilizer) Laboratory, Ranchi, Jharkhand*Krishi Bhawan, Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)*

d) **Opening of bid** – On 9.1.2024 at 2.00 pm in the office of Assistant Director Agriculture,Quality Control(Fertilizer) Laboratory, Ranchi in the front of Tender Committee. All the bidders or their dully authorized representative may remain present at the time of Tender opening for any clarification sought by the Tender Committee.

e) Tender received after due date and time will be rejected.

## **TERMS AND CONDITIONS**

The tender should be submitted in two parts as Technical bid and Financial bid

### **Scope of Supplies:**

#### **Scope of Supplies:**

1. **Annexure-A**-Laboratory Equipment/ Instruments.
2. **Annexure-B**-Glass ware and Lab Chemicals.etc.
3. **Annexure-C**- CAMC/AMC FOR AAS,.

The tender should be submitted in three separate sealed envelopes (three parts). All the three envelopes should be kept in one bigger (single) envelope duly sealed and submitted in prescribed office: Office of Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi. Krishi Bhawan, Campus, Kanke Road, Ranchi Pin. No. - 834008, (Jharkhand)

**Envelop- I** : It should contain Tender Document Fee & EMD in the form of DD in favour of "Sahayakkrishi Nideshak, Goon Niyantaran (Urvarak ) Pryogshala, Ranchi" payable at Ranchi.

Envelop should be superscribed "**TENDER DOCUMENT FEE & EMD**" DD number and its amount should be written on the envelop.

**Envelop – II**: It should contain all the documents required for technical bid.

Envelop should be superscribed "**Technical BID**" if a bidder is applying for more than one category i.e -Laboratory Equipment/ Instruments, Glass ware and Lab Chemicals.etc. & CAMC/AMC AAS,. Technical bid should be submitted in separate envelop Envelop should be superscribed with "CATEGORY NAME"

**Envelop – III**: The envelop should consist of only **financial offer**. i.e. the rate of the equipment, their accessories, glassware, chemicals etc., CAMC/AMC inclusive of taxes FOR., insurance etc. Envelop should be superscribed "**Financial Bid**" if a bidder is applying for more than one category i.e -Laboratory Equipment/ Instruments, Glass ware and Lab Chemicals.etc. & CAMC/AMC for AAS,. Technical bid should be submitted in separate envelop Envelop should be superscribed with "CATEGORY NAME"

Tender will be received and opened in the Office of Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi, Krishi Bhawan Campus, Kanke Road, Ranchi, pin- 834008 (Jharkhand)

The Financial Offer must be mentioned in the prescribed format as per the Annexure-VI. only.

The vendor/bidder(s) are required to submit the tender document on their letter head along with the endorsement (by seal & signature) Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

- Fax and Email quotation are not acceptable.
- Quotation should be valid for 1 year from the tender due date.
- The quotation should clearly indicate the period of delivery, warranty terms etc.
- A minimum of two years warranty is required from the date of commissioning.
- Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) in original should be sent along with the technical bid.

- The Suppliers should submit copies of suitable documents in support of their reputation, credentials and past performance about the product which they have supplied earlier to different organization(s)/Institution(s)with the technical bid.
- **IMPORTANT DOCUMENTS REQUIRED IN THE TECHNICAL BID**
  - i) The tender document must be accompanied by audited financial statements with UDIN for last 3 Assessment years. (2023-24,2022-23& 2021-22)
  - ii) Photo copy of PAN card of the entity / legal entity.
  - iii) Photo Copy of GST registration.
  - iv) Photo Copy of latest quarter GST Return. (GSTR3 B of Jan. to March. 2023 Qtr.)
  - v) Photo Copy of Last three years IT Return. (A.Y.21-22 to 23-24)
  - vi) Photo copy of Udyam Registration – Optional (Must be verified from the nearest concerned office if the bidder wants to take the advantages of exemptions as applicable)
- The Vendor must be able to provide the product/itemswithin25-30days from the receipt of supply order./purchase order, failing the EMD will be forfeited.
- Further more on completion of the stipulated time period, Purchase Order will be cancelled and awardwillbegiventoanotherqualifiedbidderwiththenegotiatedterms&conditions.
- The turnover of the participating firm should not be less than ten lakh each year, should have past experience of dealing in similar items proof of the same should be enclosed in Technical Bid Envelop. Bidder should provide a certificate e stating that model quoted is latest in the quoted price range ,of the concerned manufacturing company.
- In the event of any dispute or difference(s) between the vendee Assistant Director, Quality control (Fertilizer) Laboratory ,Ranchi and the vendor(s) arising out of non-supply of material or supplies not found according to the specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to the Joint Director Agriculture, Ranchi whowill decidethematterhimself,hisdecisionshallbefinalandbindingonboththeparties.
- The place of arbitration and the language to be used in arbitral proceedings shall be decided by Joint Director Agriculture, Ranchi.
- All disputes shall be subject to Ranchi Jurisdiction only.
- Assistant Director, Quality control (Fertilizer) Laboratory , Ranchi reserves the rights to accept/ reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.
- Any effort by any supplier to influence Assistant Director ,Quality control (Fertilizer) Laboratory , Ranchi's, tender evaluation, tender comparison or contract/ order award decisions may result in the rejection of the supplier's tender and for feiture of the supplier's EMD.
- After opening of bids, information relating to the examination, clarification, evaluation and comparisons of bid sander commendations concerning the award of contract shall not be disclosed to bidders or other persons not officially concerned with such process.

Technical bid envelop should contain all the technical details alongwith proof of specification of the tendered items with brochures.

- Bidders have to enclose last three years audited reports in the technical bid envelop.
- Bidders should have annual turnover of at least ten lakh per year for previous three years certificate regarding this should be enclosed in the technical bid envelop as stated above. CAMC/AMC service provider should have annual turnover of at least one lakh per year for previous three financial years .
- Bidders may remain present on the date of technical bid opening; no separate information will be delivered to the bidder regarding attending the meeting of the tender committee.
- Conditional tender will not be accepted.
- Basic price of the equipment (F.O.R.), all taxes, duties etc .must be indicated clearly & separately in the financial bid form.
- Quoted rate should be in INR and valid for 1 year from the tender due date.
- The bidder/The manufacturer should not be black listed by any state government/ central government/semi government institutions a certificate or undertaking to this effect must be submitted along with technical bid document. Annexure–IV
- The rates of the quoted items should be kept fixed for the entire contract period from the last date of tender submission. No revision in rates/prices will be allowed.
- After acceptance of the tender, the bidder will have no right to withdraw his tender or claim a higher price. Tenders with incomplete information will be summarily rejected.
- The Technical Bid will open on 09.01.2024 at 2.00 pm.
- The suppliers or their authorized representative may remain present during the opening of the Technical bid at their own expenses.
- Only those financial offers will be opened whose technical offers are found suitable by the tender committee. The Technical Evaluation Criteria will be as per Annexure-.III-A & III-B
- The committee may negotiate price with the technically and financially qualified bidder before awarding the offer.
- The Tender Committee/ Assistant Director Agriculture, Ranchi reserve its right to select or reject tender without assigning any reasons.
- The EMD of the successful bidder will be returned to them without any interest after completing the successful installation and required training if any. The earnest money of unsuccessful bidders will be returned to them without any interest after the completion of procurement process.
- All tender documents should have to be forwarded through speed post or registered post, courier, Hand Delivery to the following address so as to reach the following address on/before 08.01.2024 11.00 pm. to the Office of Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi, Krishi Bhawan Campus, Kanke Road, Ranchi, pin- 834008 (Jharkhand)
- **OTHER TERMS AND CONDITIONS:**
- The bidder must be entity or legal entity registered under relevant act.
- *Each sheet of the tender document must be signed by the bidder.*

- *The bidder is expected to examine all instructions, forms/ annexure, terms and conditions and specifications mentioned in the bidding document. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding document in every respect will be at the bidder's risk and may result in the rejection of its bid.*
- *Losses/damage of the instrument in transits, if any, shall be at the risk of the vendor/supplier.*

#### EMD FOR DIFFERENT ITEMS & SERVICE

S.NO.	ITEMS	EMD ( IN RUPEES )	REMARKS
1	LABORATORY EQUIPMENTS / INSTRUMENTS	5,000	Bidders applying even for both the sections i.e s.no. 1& 2 should submit single EMD of Rs.5,000.00
2	Glassware and Chemicals etc.		
3	CAMC/AMC	1,000	Separate EMD should be submitted

Tender Document Fee & EMD in the form of DD in favour of "Sahayak Krishi Nideshak, Goon Niyantaran (Urvarak) Pryogshala, Ranchi" payable at Ranchi.

Annexure- IForm A

PARTICULARS TO BE FILLED BY THE BIDDER

- Name of the Supplier:
- Complete Address of the Supplier:
- Cost of the Tender document enclosed:

Yes/No If yes,

- Name of the Bank \_\_\_\_\_
- Amount in (₹) \_\_\_\_\_
- Demand Draft No. \_\_\_\_\_

Earnest Money Deposit enclosed: Yes/No if Yes,

- Name of the Bank \_\_\_\_\_
- Amount in (₹) \_\_\_\_\_
- Demand Draft No. \_\_\_\_\_
- Last Validity date of the enclosed DD \_\_\_\_\_

Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE : Any changes after submission of Tender documents kindly update Assistant Director Quality Control (*Fertilizer*) Laboratory, Ranchi]

- a. Full Name: \_\_\_\_\_
- b. Complete Postal Address: \_\_\_\_\_
- c. TelephoneNo.: \_\_\_\_\_
- d. FaxNo.: \_\_\_\_\_
- e. MobileNo.: \_\_\_\_\_
- f. E-mail: \_\_\_\_\_
- g. WebsiteAddress: \_\_\_\_\_

Annexure – II

**Technical & Financial Evaluation Criteria for the Supply of equipments**

Bids will be evaluated on a scale of 100. Technical offer will have a maximum score of 100 and the bidders must score 35% or more in both parts(a) and (b) of Technical Evaluation mentioned below.

**Guidelines for technical evaluation:**

The Technical Evaluation comprises of two parts:

Bidder Evaluation- 50points

Product Evaluation-50points

The Bidder evaluation testifies the competence, previous experience and overall core strengths of the invited bidder where as the product evaluation examines the quality of the products and services offered by the invited bidders. The committee will also try to assess the clarity and commitment of the invited bidder for the aforesaid execution of the tender.

The product evaluation comprises of the performance of bidders in the technical compliance report.

The technical compliance sheet needs to be duly filled and deviations (if any) shall be mentioned clearly.

Further discussions related to the awarded scores by the committee will not be entertained.

**Enclosures:**

Technical Evaluation Sheet-Annexure–III(A) & III(B)

**Annexure-III (A) Technical Evaluation Sheet - (Total : 50 Points)**

**(Not applicable for CAMC service provider)**

S. No.	Particulars	Points System	Max. Points	Points awarded (Vendor/Bidders are not required to fill this column)
1.	No. of years since the bidder is engaged in similar hardware supply/installation	>5 years - 10 points 4-5 years - 8 points 2-3 years – 6 points 0-1 years – 4point	10	
2.	No. of hardware installations/ Supply/Providing Service	>10 -10points 7-10 - 8points 3-6 – 6 points 0-2 - 4 point	10	
3.	Turnover of previous three years Separately,	>40 lakh 30points 30-40 lakh 25 points 10-20 lakh-20points	30	

Bidder Evaluation - Total Points Awarded (A) -

**Technical Evaluation - Total 50 Points (Not applicable for CAMC service provider)**

Annexure –III (B)

S. No.	Points System	Max. Points	Points Awarded (Vendor/tenderers are not required to fill this column)	Supporting Document submitted (Yes /No)
	Percentage of deviations cited inthe technical compliance sheet submitted by the bidder	0% – 50 points 50 %– 30 points 60%- – 25points 75% – 20 points >90% – 0 points		

Overall Total Points: (Bidder Evaluation + Technical Evaluation) – Total 100 Points (Qualifying Marks-35 points)Overall Total Points Awarded (A+B)–

**\*CAMC service provider will be evaluated on their past experience only**



**Annexure – IV**

DECLARATION REGARDING BLACK LISTING/ DEBARRING FOR TAKING PART IN TENDER.

*(To be executed & attested by Public Notary/ Executive Magistrate on Rs.10/- non-judicial Stamp paper by the bidder)*

I/We \_\_\_\_\_ Manufacture/Partner(s)/Authorized Distributor/ agent of M/S. \_\_\_\_\_ here by declare that the firm/ company namely M/s. \_\_\_\_\_ has not been black listed or debarred in the past by Union/ State Government or organization from taking part in Government tenders in India.

Or

I/ We Manufacture/ Partner(s)/ Authorized Distributor/ agent of M/s. here by declare that the Firm/ company namely

M/s. \_\_\_\_\_ was black listed or debarred by Union/ State Government or any Organization from taking part in Government tenders for a

Period of \_\_\_\_\_ years w.e.f. \_\_\_\_\_ to \_\_\_\_\_.

The period is over on \_\_\_\_\_ and now the firm/ company is entitled to take part in Government tenders.

In case the above information found false I/we are fully aware that the tender/contract will be rejected/ cancelled by Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi and EMD/ Performance Security shall be forfeited.

In addition to the above Assistant Director Agriculture, Quality Control (Fertilizer) Laboratory, Ranchi, will not be responsible to pay the bills for any completed/ partially completed work.

DEPONENT

Name \_\_\_\_\_

Address \_\_\_\_\_ Attested:

(Public Notary / Executive Magistrate)

Annexure – V.

CERTIFICATE TO BE SIGNED BY THE TENDERER CERTIFICATE

It is certified that I have read and understood and will comply all instructions contained in tender Document and its annexures. All pages of schedule(Annexures) from page to have been filled properly and signed.

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

Name in Block Letters: \_\_\_\_\_

Name of The Firm: \_\_\_\_\_

\_\_\_\_\_

Full Address: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Mobile No. \_\_\_\_\_

Fax No. \_\_\_\_\_

Email ID \_\_\_\_\_

Website: \_\_\_\_\_

Signature of Tenderer with Office Seal

**Annexure-VI  
FINANCIAL OFFER**

Supplier's Ref No. & Date: - \_\_\_\_\_ Tender No. : - \_\_\_\_\_  
Due Date: - \_\_\_\_\_ Description of item: - \_\_\_\_\_

S.NO	Description of Item & Specification (Model no if any)	Unit Price in Rs.	Discount (%)	Excise Duty /Custom Duty (%)	GST/(%)	Other Charge (If any)	Total Price in Rs
1.							

**(Total Amount in Words.....)**

Delivery Mode: Delivery at QCFL RANCHI KRISHI BHAWAN CAMPUS, at site only

Total bid price should be inclusive of all taxes and levies, transport, loading, unloading etc.

Warranty Period:.....

Delivery Period:.....days/weeks. Installation

Period:.....days/weeks.

Quotation Validity Date: - Minimum 1Year from the date of Submission of quotation/tender.

Payment Term : Payment in rupees within 30 working days from the date of submission of clear bill(100% on successful installation & training IF ANY).

Sign of bidder: - \_\_\_\_\_

Date: - \_\_\_\_\_

Name of the bidder:- \_\_\_\_\_

Firm's Name:- \_\_\_\_\_

Annexure VII:

Minimum Required Documents for Technical Eligibility (Qualifying Criteria)

Name of the firm

S.No	Attached Documents
1.	The bidder must enclose self-attested copy of valid license/registration certificate/ dealer registration/ distributor certificate /certificate of incorporation etc.
2.	Self-attested copy of PAN & GST registration .
3.	Self-attested Photocopy of GSTR3B return of Jan. To March.2023 Qtr..
4.	Copy of IT Return (A.Y.21-22 to 23-24 ) and audited balance sheet of last three financial year
5	Document regarding annual turnover of last three years (Audited financial Statements with UDIN}
6	Proof of work experience: Self-attested copy of similar nature of work experience.
7	RFE FEE receipt & EMD
8.	Affidavit of non-blacklisting

**Note: The above documents will be the basis of technical eligibility / Audited financial statements with UDIN is mandatory.**

## ANNEXURE - A

### Specification of the Machinery/ Equipments & Other Items: Analytical Balance(Electronic ) :

S.No.	DESCRIPTION		Free - Installation, demonstration & training at site with operating manual. Warranty - Minimum two years from date of installation. Specifications of the items to be supplied by the tenderer (whether same or higher than given specifications, if higher, details to be furnished)
1.	Maximum capacity	: 200 gm	
2.	Readability	: 0.1mg.	
3.	Linearity deviation	: ± 0.2mg.	
4.	Repeatability	: 0.1mg	
5.	Adjustment with internal weight	: on push button	
6.	Adjustment with internal weight	: on push button	
7.	Size of Weighing Pan	: 90 mm dia (non-reactive pan)	
8.	Dimension (L×W×H)	: 308 mm × 216 mm × 315 mm	
9.	Response time	: max. 3 second	
10.	Weighing Units	: Multiple Units	
11.	Time and Date	: Inbuilt (Optional)	
	Housing	: Chemically resistant, easy to clean	
	Functions	: Zero tracking, Auto power off, etc.	
	Doors	: Three side sliding door accessing the weighing balance	
12.	User ID	: 3 user ID can be fed, alpha numeric (Optional)	
13.	Calibration	: Automatic internal calibration.	
	adjustment with internal weights -fully automatic time- and temperature-controlled adjustment, adjustment with external weight for calibration		
14.	Shall be required Large TARE key for quick zeroing.External air pressure deviation should be minimal, with wind shield		
15.	Dust cover : Dust cover should be required		
16.	AC adapter or voltage stabilizer should be required.		
17.	Electricity :- 220 volt AC (± 10%), 50 Hz.		
18.	<i>Balance shall be required "single block weighing technology" for response time and accuracy. Motorized calibration weight</i>		
19.	<i>Balance weighing sensor should be robust reliable, Resistant to against chemicals.</i>		
20.	<i>Back light display.</i>		
21.	<i>Simple menu navigation</i>		
22.	<i>Provision for leveling feet &amp; level indicator.</i>		
23.	<i>Provisions for overload protection.</i>		
24.	<i>Provisions for connection of computer/printer (optional).</i>		
25.	<i>Easy running and diagnostic test.</i>		
26.	<i>Easy configuration against manipulations.</i>		
27.	<i>Should require callibrated weight box.</i>		
28.	<i>Product should be certified- ISO/ISI/EC/US/EU or equivalent</i>		
29.	LCD display for all measurements and touch screen operations, facility for weighing, statistics,		
30.	<i>Product should be certified-ISO/ISI/EC/US/EU. or equivalent standards</i>		
	Provision of indication when the sample weight reached the set point		
	Provided with spatula, cleaner and cover for dust protection, etc.,		

**To be filled by Tenderer**

**Name of the Model**

**Manufacturer of the Model**

**Year of release of the equipment**

Signature ----- Name ----- Seal

## HOT AIR OVEN (BIG)

S.No.	Particulars	Minimum specifications	REMARKS
	Chamber Size (Internal size)	60 x 60 x 90 cm (L x W x H)	
	Outer body	Mild steel with powder coated	
	Inner chamber	Stainless steel	
	Trays	03 Nos. stainless steel, perforated, adjustable	
	Door	Single door fitted on heavy brass chrome plated hinges	
	Cabinet	Cabinet double walled mild steel	
	Insulation	Minimum thickness 5 cm of glass wool	
	Air Circulation	Ventilated with internal fan with ISI mark motor to assist circulation of air	
	Operating temperature range	Ambient to 250 °C	
	Temperature control	Digital temperature controller cum indicator with accuracy of $\pm 0.5$ °C, installation should be on top towards door side. The supplier will have to provide Calibration Certificate for Digital Temperature Controller from NABL recognized Calibration Laboratory.	
	Timer	Digital with range up to 999 minutes, installation should be on top towards door side	
	Power	230 $\pm$ 10 volts / 50 Hz AC	
	Heating load	2 KW	
	Ventilator	Two adjustable air ventilator on both upward side on top of the instrument	
	Standard	The apparatus should confirm to IS: 6365-1971 (Reaffirmed 1995) with latest amendments in Indian Standard Specifications for Laboratory Electric ovens or equivalent International Standards covering marking, tests	

**To be filled by Tenderer**

**Name of the Model**

**Manufacturer of the Model**

**Year of release of the equipment**

**Signature ----- Name ----- Seal**

## CONDUCTIVITY METER

S.No.	Particulars	Minimum specifications	REMARKS
	Display	3 ½ Digit LED	
	Measurement	Conductivity & Temperature	
	Ranges	Six Ranges 0 -20 µS / cm 0 -200 µS / cm 0 – 2 mS / cm 0 – 20 mS / cm 0 – 200 mS / cm 0 - 1000 mS / cm	
	<b>Range Selection</b>	Automatic in 6 Ranges	
	Temperature Range	0 to 100 °C	
	Accuracy Cond. Temp	± 0.5 % FS ± 1 Digit ± 0.1 °C ± 1 Digit	
	Temperature Compensation	<b>Auto: 0 to 50 °C</b> <b>Manual : 0 to 50 °C</b>	
	Cell constant	Adjustable on Digital Display	
	Measuring Cell	Platinum DIP Type	
	Auto Cell Constant Measurement	Available	
	Resolution Cond. Temp.	0.01 µS / cm 0.1 °C	
	Power	12 V DC using 230 ± 10 % AC Adapter	
	Dimensions	270 X 202 X 80 mm (lxbxh)	
	Weight	0.8 Kg approx	
	Accessories	Conductivity Cell, Operation Manual, Dust Cover, Cell Stand ,Temperature Probe	

**To be filled by Tenderer**

**Name of the Model**

**Manufacturer of the Model**

**Year of release of the equipment**

**Signature ----- Name ----- Seal**

**Sample Crusher**

S.NO.	DESCRIPTION	SPECIFICATION	REMARKS
	Hopper Capacity	: Max. 500 mg.	
	Crusher Roller	: A pair of hexagonal roller	
	Rotation Speed	: 103 rpm (50 Hz)	
	Oscillating Sieve (Exchangeable)	: Mesh size 1 Or 2 mm	
	Power Source	: 220 V.	

To be filled by Tenderer

Name of the Model

Manufacturer of the Model

Year of release of the equipment

Signature ----- Name ----- Seal

**MUFFLE FURNACE**

S.NO.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Maximum Temperature	1200°C	Specifications of the items to be supplied by the tenderer (whether same or higher than given specifications, if higher, details to be furnished)
2.	Temperature deviation (spatial)	±0.5°C	
3.	Temperature readability	±0.5°C	
4.	Temperature Sensor	K-type	
5.	Wall	Double wall thick PCR steel 304 grade Sheet	
6.	Salves	Salves required	
7.	Thermostat	Ceramic wool insulation	
8.	Heating element	Kathnthal A-1 wire heater	
9.	Standard Size (inner	200mm×200mm×300mm, (approx..)	
10.	12 Temperature controller	- Solid state digital controller cum indicator.	
11.	Alarm	should beAdjustable	
12.	Working power & wattage	- 220 volt AC (± 10%), 50 Hz.	
13.	Display	LCD/LED	
14.	<i>Product should be certified-ISO/ISI/EC/US/EU. or equivalent standards</i>		

To be filled by Tenderer

Name of the Model

Manufacturer of the Model

Year of release of the equipment

Signature ----- Name ----- Seal



**TECHNICAL SPECIFICATION OF  
AUTO TITRATOR**

S.No.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Measurement input pH/mV	pH/mV-input with electrode socket according to DIN 19 262 or additional with BNC socket insert (Z 860)	SPECIFICATIONS OF THE ITEMSTO BE SUPPLIED BY THE TENDERER (WHETHERSA MEORHIGHER THAN GIVENSPECIFICATIONS,IFHIGHER, DETAILS TOBE FURNISHED) FREE - INSTALLATION, DEMONSTRATION & TRAINING AT SITE WITH OPERATING MANUAL. WARRANTY - MINIMUM TWO YEARS FROM DATE OF INSTALLATION. SHOULD BE QUOTED WITH ALL NECESSARY ACCESSORIES
2.	Measurement input temperature	Pt 1000/NTC 30: (socket 2 x 4 mm)	
3.	Interfaces	1 x USB-A and 1 x USB-B, 2 x RS-232-C.	
4.	Stirrer connection	TM 50 power supply directly through piston burette	
5.	Keyboard	The unit is operated using the keys on the device itself, the controller TZ 3880 and optional PC-keyboard (USB)	
6.	Display	Graphics-capable TFT display.	
7.	Volume display	0000,000...9999,999 mL	
8.	Display resolution	0.005-0.025 mL (depending on dosing unit)	
9.	Dosing speed	Max. 100 mL/min (with 50 mL unit)	
10.	Filling speed	Min. 30 s to 999 s adjustable (time according to the cylinder volume)	
11.	Dosing units	20 mL or 50 mL dosing unit, interchangeable	
12.	Burette resolution	8000	
13.	Dosing accuracy	20 mL or 50 mL dosing unit, interchangeable	
14.	Power supply	100 -240 V~; 50/60 Hz, power input 30 VA	
15.	Conformity	ISO 8655, part 6	
16.	CE-mark	EMC: 2004/108/EG; safety EG- Directive 2006/95	
17.	Dimensions	135 x 310 x 205 mm (W x H x D), including dosing unit, without stirrer	
18.	Weight	2.3 kg (without stirrer)	
19.	Ambient conditions	Ambient temperature: + 10 ... + 40 °C for operation and storage. Humidity according to EN 61 010, Part 1: Max. relative humidity 80 % for temperatures up to 31 °C, linear decrease down to 50 % relative humidity at a temperature of 40 °C	

**TO BE FILLED BY TENDERER**

**NAME OF THE MODEL** \_\_\_\_\_

**MANUFACTURER OFTHEMODEL** \_\_\_\_\_

**YEAR OF RELEASE OF THEEQUIPMENT** \_\_\_\_\_

## TECHNICAL SPECIFICATION OF ULTRAPURE WATER PURIFICATION SYSTEM

S. NO.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Output (Tank is empty, 25°C)	10 liter/hour	<p style="text-align: center;">SPECIFICATIONS OF THE ITEMS TO BE SUPPLIED BY THE TENDERER (WHETHER SAME OR HIGHER THAN GIVEN SPECIFICATIONS, IF HIGHER, DETAILS TO BE FURNISHED) FREE - INSTALLATION, DEMONSTRATION &amp; TRAINING AT SITE WITH OPERATING MANUAL. WARRANTY - MINIMUM TWO YEARS FROM DATE OF INSTALLATION. <b>SHOULD BE SUPPLIED WITH 20 PKTS . OF APPROPRIATE FILTER PAPER. SHOULD BE QUOTED WITH ALL NECESSARY ACCESSORIES</b></p>
2.	Flow rate (Tank is full)	2 liter/min	
3.	UP water resistivity	18.25MΩcm@25°C	
4.	Heavy metal ion	<0.1ppb	
5.	TOC	<3ppb	
6.	Microbe (Bacteria)	<0.1CFU/ml	
7.	Particles(>0.2 μm)	<1/ml	
8.	RNases	<0.003ng/ml	
9.	DNases	: <0.4pg/ μl	
10.	Outlet	UP water	
11.	RO water Quality	Ion rejection rate: >98% (New RO membrane) Organic	
12.	rejection rate	99%, Particles and bacteria	
13.	Device Dimention/weight	400X530X590mm/ about40Kg	
14.	Electric supply	220V,50-60Hz, 50W	
15.	Environmental temperature	5°C~45°C	
16.	Relative humidity	20%~80%	
17.	<p style="text-align: center;"><b>PRODUCT SHOULD BE CERTIFIED-ISO/ISI/EC/US/EU. OR EQUIVALENT STANDARD</b></p> <ul style="list-style-type: none"> <li>• PLC auto controlling system and LED display.</li> <li>• 2 way flow sensor, achieve quantified dispensing of RO water, deionized water, or ultrapure water.</li> <li>• System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.</li> <li>• System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water.</li> <li>• All Cartridges replacing alarm function, based on time, or water quality, show cartridges' used and residual life.</li> <li>• Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.</li> <li>• Auto self-flushing of RO membrane function (interval and continuous time setting), extend RO membrane's life.</li> <li>• External water tanks is optional to meet different need and assure ample water supply.</li> <li>• Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.</li> <li>• Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.</li> <li>• Optimized pretreatment (including PP fiber, active carbon cartridge and softening resin), effectively protect RO membrane.</li> <li>• RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.</li> <li>• ultrapure cartridge with DOW's top polishing resin</li> </ul>		

**TO BE FILLED BY TENDERER**

**NAME OF THE MODEL** \_\_\_\_\_

**MANUFACTURER OF THE MODEL** \_\_\_\_\_

**YEAR OF RELEASE OF THE EQUIPMENT** \_\_\_\_\_

**SIGNATURE** ----- **NAME** ----- **SEAL**

## KJELDAHL DISTILLATION SYSTEM

S.NO.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Dimension (WxDxH) mm	650x 350 x 725	SPECIFICATIONS OF THE ITEM TO BE SUPPLIED BY THE TENDERER (WHETHER SAME OR HIGHER THAN GIVEN SPECIFICATIONS, IF HIGHER, DETAILS TO BE FURNISHED) FREE - INSTALLATION, DEMONSTRATION & TRAINING AT SITE WITH OPERATING MANUAL. WARRANTY - MINIMUM TWO YEARS FROM DATE OF INSTALLATION. (Should be supplied with Accessories)
2.	Tube Capacity (ml)	250 / 400	
3.	Steam power (ADJUSTABLE)	25 % - 100 %	
4.	Minimum distillation time (mins)	5	
5.	Power Consumption (W)	1000	
6.	Current Consumption (A)	5.5	
7.	Reagent level sensor	Yes	
8.	Display	LCD	
9.	Any time Alkali addition	Yes	
10.	Automatic Addition of Water	Yes	
11.	Automatic Addition of NaOH	Yes	
12.	Automatic Steam Generation / addition	Yes	
13.	Automatic Addition of Boric Acid	Yes	
14.	Tube error detection	No	
15.	Door close sensor	Yes	
16.	Process resume from stop	Yes	
17.	One point alkali and distilled water pump	Yes	
18.	Two point calibration for acid pump	Yes	
19.	Real time monitoring process parameter	Yes	
20.	SELV protection	Yes	
21.	User Editable Programs	40 preset, 30 user editable	
22.	PC Connectivity	Yes	
23.	Nitrogen recovery	> 99.5 %	
24.	Nitrogen reproducibility	± 1 %	
25.	RSD	< 1 %	
26.	LOD	1-200 mg with of =0.1mg of Nitrogen	

**TO BE FILLED BY TENDERER**

**NAME OF THE MODEL** \_\_\_\_\_

**MANUFACTURER OF THE MODEL** \_\_\_\_\_

**YEAR OF RELEASE OF THE EQUIPMENT** \_\_\_\_\_

**SIGNATURE** ----- **NAME** ----- **SEAL**

Classical Nitrogen Distillation Unit

S.No.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Flask Capacity	500 ml Kjeldahl flask	TRAINING AT SITE WITH OPERATING MANUAL. WARRANTY - MINIMUM TWO YEARS FROM DATE OF INSTALLATION. (Should be supplied with Accessories
2.	Element Temperature	450 °C	
3.	Temperature Regulators	6	
4.	Display	LED	
5.	Timer	1 -999 Minutes	
6.	Power Consumption	900W	
7.	Electrical Regulation	3.9 A	

**TO BE FILLED BY TENDERER**

**NAME OF THE MODEL** \_\_\_\_\_

**MANUFACTURER OF THE MODEL** \_\_\_\_\_

**YEAR OF RELEASE OF THE EQUIPMENT** \_\_\_\_\_

**SIGNATURE** ----- **NAME** ----- **SEAL**

**Calibrated Weight**

S.No.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Range	1mg to 200 gm	
2.	Material	Aluminium /Stainless Steel (1mg - 100 mg)	
3.	Certification	Must be certified for NABL purpose	

### Water Distillation Unit

S.No.	DESCRIPTION	SPECIFICATION	REMARKS
1.	Capacity of Distilled Water Output	2.5 LPH	2
2.	Minimum cooling water requirement (Ltr/min)		
3.	Heater	Quartz	
4.	Boiler	Quartz	
5.	Condenser	Quartz	
6.	Biological Activity	Pyrogen Free	
7.	Conductivity S/cm	$< 1 \times 10^{-6}$	
8.	Power consumption (kw)	4.4	
9.	Voltage (V)	230 V	
10.	Dry Run Protection	Yes	
11.	On Demand Output	Yes	
12.	Storage mode	Yes	
13.	Auto Filling Reservoir	Yes	
14.	Dispense rate (ml / min)	900 ml	

### Thermo Hygrometer

**Requirements : Measurement of Relative Humidity, Dry Bulb Temperature, Wet bulb temperature**

**Parameters to be measured Relative Humidity, Dry Bulb Temperature, Wet bulb temperature**

### **Specification for pH Meter**

pH meter pH meter with pH, /temperature probe,  
electrode stand along with pH buffer solution

kit, brochure, power adapter,

Range (pH) 1.00 to 14.00

Range (temperature 0C) 5 to 1100C

Resolution (pH) 0.1 / 0.01

Resolution (Temperature) 0.10C

Accuracy (pH)  $\pm 0.01$  pH

Accuracy (Temperature)  $\pm 0.10$ C

Temperature compensation Automatic and manual also

Display LCD, Dual – Display to read both measured

parameter and temperature at a glance. Water

– resistant membrane keypad

pH calibration points Up to 3 points

Water proof Yes (IP 54 rating)

Calibration solutions All required pH calibration solutions to be  
provide by the supplier

Should have pH auto-buffer recognition for both USA

and NIST buffer sets, automatic temperature compensation, temperature selectable in either  
0F or 0C

Should be able to easily recall calibration slope data  
for procedure checks

Data logging for at least 30 points with both time and  
date values

Should have Convenient, built – in Quick – Start  
Guide

Adaptor Universal 100/240 VAC power supply, power  
adapters and electrode stand

CE Compliance Yes

pH electrode Glass Body, Refillable Combination pH

Electrode with built – in ATC Probe & BNC

Connector. pH range: 0-14

Temperature Range: 0-1000C

Technical brochure to be provided and the  
specification should be clearly highlighted in the technical brochure.

Warranty to be quoted

Authorized dealership certificate from Principals to be  
provided.

## ANNEXURE – B

### CHEMICALS :

S.NO.	NAME OF THE CHEMICALS	GRADE	PACK SIZE	RATE (Rs)
	Ammonium acetate	AR/ACS		
7.	Activated Carbon/charcoal ( for soil test)	AR/ACS	500 gm	Per Pack
15.	Ammonium Iron (III) Sulphate	AR	500 gm	Per Pack
18.	Ammonium Molybdate	AR	100 gm	Per Pack
19.	Ammonium Molybdate	AR	250 gm	Per Pack
20.	Ammonium Molybdate	AR	1 Kg	Per Pack
	Antimony Potassium Tartrate	AR	250 gm	Per Pack
	Azomethine - H	AR/ACS	10 gm	Per Pack
	Bismuth nitrate solution	AR/ACS	500 ml	Per Pack
	Bromocresol Green 0.04% indicator solution	AR	125 ml	Per Pack
	Bromocresol Green indicator pH 3.6 - 5.2	AR	5 gm	Per Pack
	Butter paper			Per Pack
	Buffer capsule pH 4.00 ± 0.05		10 caps	Per Pack
	Buffer capsule pH 7.00 ± 0.05		10 caps	Per Pack
	Buffer capsule pH 9.20 ± 0.05		10 caps	Per Pack
	Calcium Chloride dihydrate	AR/ACS	500 gm	Per Pack
	Clayton yellow indicator	AR/ACS	25 gm	Per Pack
	Copper sulfate	AR/ACS	500 gm	Per Pack
	Copper,Zinc,Manganese,Iron Standard for AAS	AR	500 ml	Per Pack
	Devarda alloy	AR/ACS	500gm	Per Pack
	Ethyl Alcohol- 95%	AR/ACS	500 ml	Per Pack
	Ethylene di amine tetra acetate	AR/ACS	100gm	Per Pack
	Hydroxyl Amine hydrochloride	AR	100gm	Per Pack
	Lead Acetate	AR/ACS	500 gm	Per Pack
	Magnesium nitrate solution	AR/ACS	500 ml	Per Pack
	Methyl red	AR	25gm	Per Pack
	Mercuric Chloride	AR/ACS	100 gm	Per Pack
	Mercuric Chloride solution	AR/ACS	100 ml	Per Pack
	Patton and Reader's indicator		100gm	Per Pack
	Potassium chloride	AR/ACS	500 gm	Per Pack
	Potassium dichromate	AR/ACS	500 gm	Per Pack
	Potassium sulfate	AR/ACS	500 gm	Per Pack
	Potassium Iodide	AR/ACS	500gm	Per Pack
	P- nitrophenol	AR/ACS	500gm	Per Pack
	Potassium permagnate	AR/ACS	500 gm	Per Pack
	Potassium bi hydrogen ortho phosphate	AR/ACS	500 gm	Per Pack
	Silver Nitrate	AR/ACS	25 gm	Per Pack
	Sodium bi carbonate	AR/ACS	500 gm	Per Pack
	Sodium Hydroxide Pellets min 20%	AR/ACS	500 gm	Per Pack
	Sodium Tetra Phenyle Boron (STPB)	AR/ACS	10 gm	Per Pack
	Sodium Cyanide	AR/ACS	100 gm	Per Pack
	Stannous Chloride	AR/ACS	500 gm	Per Pack
	Stannous Chloride Solution	AR/ACS	500 gm	Per Pack
	Sodium Molybdate dihydrate	AR/ACS	500 gm	Per Pack
	Strontium chloride	AR/ACS	500 gm	Per Pack
	Zinc granule	AR/ACS	500 gm	Per Pack
	Zinc dust	AR/ACS	500 gm	Per Pack

Note : bidders can quote the pack size available with them.

## ANNEXURE – B

## GLASSWARE

S. No.	NAME OF ITEMS	Class - A & NABL Callibrated	Capacity	Rate (Rs)
1	Burette, fitted with Screw Thread Stopcock with PTFE Key	Class-A & NABL Certified	25 ml	Per Unit
2	Burette, fitted with Screw Thread Stopcock with PTFE Key	Class-A & NABL Certified	50 ml	Per Unit
3	Burette, fitted with Screw Thread Stopcock with PTFE Key	Class-A	25 ml	Per Unit
4	Burette, fitted with Screw Thread Stopcock with PTFE Key	Class-A	50 ml	Per Unit
5	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A & NABL Certified	5 ml	Per Unit
6	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	10 ml	Per Unit
7	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	25 ml	Per Unit
8	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	50 ml	Per Unit
9	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	100ml	Per Unit
10	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	250 ml	Per Unit
11	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	500 ml	Per Unit
12	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	1000ml	Per Unit
13	Measuring Cylinders, Graduated, with Metric Scale, with I/C Stopper	Class-A	2000ml	Per Unit
14	Measuring Cylinders, Graduated, with Metric Scale, with hexagonal base	Class-A	5 ml	Per Unit
15	Measuring Cylinders, Graduated, with Metric Scale, with	Class-A	10 ml	Per Unit
16	Measuring Cylinders, Graduated, with Metric Scale, with hexagonal base	Class-A	50 ml	Per Unit
17	Measuring Cylinders, Graduated, with Metric Scale, with hexagonal base	Class-A	100ml	Per Unit
18	Measuring Cylinders, Graduated, with Metric Scale, with hexagonal base	Class-A	250ml	Per Unit
19	Measuring Cylinders, Graduated, with Metric Scale, with hexagonal base	Class-A	500ml	Per Unit
20	Measuring Cylinders, Graduated, with Metric Scale, with hexagonal base	Class-A	1000ml	Per Unit
21	Measuring Cylinders, Graduated, with Metric Scale, with hexagonal base	Class-A	2000ml	Per Unit
22	Volumetric Flask with I/C Solid Glass /PP Stopper	Class-A & NABL Certified	25ml	Per Unit
23	Volumetric Flask with I/C Solid Glass /PP Stopper	Class-A & NABL Certified	50ml	Per Unit
24	Volumetric Flask with I/C Solid Glass /PP Stopper	Class-A & NABL Certified	100ml	Per Unit
25	Volumetric Flask with I/C Solid Glass /PP Stopper	Class-A & NABL Certified	250ml	Per Unit
26	Volumetric Flask with I/C Solid Glass /PP Stopper	Class-A & NABL Certified	500ml	Per Unit
27	Volumetric Flask with I/C Solid Glass /PP Stopper	Class-A & NABL Certified	1000ml	Per Unit
28	Volumetric Flask with I/C Solid Glass /PP Stopper	Class-A & NABL	2000ml	Per Unit



		Certified		
29	Beaker, Graduated, Low Form with spout	Class-A	25ml	Per Unit
30	Beaker, Graduated, Low Form with spout	Class-A	50ml	Per Unit
31	Beaker, Graduated, Low Form with spout	Class-A	100ml	Per Unit
32	Beaker, Graduated, Low Form with spout	Class-A	250ml	Per Unit
33	Reagents Bottle, Wide Mouth, Graduated With Screw Cap And Pouring Ring	Class-A	10ml	Per Unit
34	Reagents Bottle, Wide Mouth, Graduated With Screw Cap And Pouring Ring	Class-A	25ml	Per Unit
35	Reagents Bottle, Wide Mouth, Graduated With Screw Cap And Pouring Ring	Class-A	50ml	Per Unit
36	Reagents Bottle, Wide Mouth, Graduated With Screw Cap And Pouring Ring	Class-A	100ml	Per Unit
37	Weighing Bottle with I/C Stopper	Class-A	5ml	Per Unit
38	Weighing Bottle with I/C Stopper	Class-A	20ml	Per Unit
39	Weighing Bottle with I/C Stopper	Class-A	40ml	Per Unit
40	Petri Dishes with lid	Class-A	50x17 mm	Per Unit
41	Petri Dishes with lid	Class-A	80x17mm	Per Unit
42	Ammonia Distillation Apparatus (500ml KJELDAHL FLASK)	Class-A	500ml	Per Unit
43	Mono Quartz Distillation unit With Quartz Boiler, Quartz Condenser	Class-A	2.5 ltr/hr	Per Unit
44	Distillation Apparatus Power Supply (DAPS) Unit		2.5 ltr/hr	Per Unit
45	Conical Flask With I/C stopper	Class-A	25ml	Per Unit
46	Conical Flask With I/C stopper	Class-A	50ml	Per Unit
47	Conical Flask With I/C stopper	Class-A	100ml	Per Unit
48	Conical Flask With Screw Cap		100ml	Per Unit
49	Kjeldahl Flask, Round Bottom	Class-A	500ml	Per Unit
50	Kjeldahl Flask, Round Bottom with I/C Joint (24/29)	Class-A	500ml	Per Unit
51	Graham Condensers, Coiled Distillate type with I/C Joint (Inner 24/29, Outer 24/29)	Class-A	Height 300mm	Per Unit
52	Spash Head, Pear Shape Vertical with I/C Joint (Inner 24/29, Outer 24/29)	Class-A	Length 250mm	Per Unit
53	Funnels Plain, 60° Angle, Short Stem	Class-A	Ø 50 mm	Per Unit
54	Funnels Plain, 60° Angle, Short Stem	Class-A	Ø 65 mm	Per Unit
55	Funnels Plain, 60° Angle, Short Stem	Class-A	Ø 75 mm	Per Unit
56	Funnels Plain, 60° Angle, Short Stem	Class-A	Ø 100 mm	Per Unit
57	Funnels, Powder	Class-A	Ø 100 mm	Per Unit
58	Weighing Scoop	Class-A	2 ml	Per Unit
59	Weighing Scoop	Class-A	3 ml	Per Unit
60	Weighing Scoop	Class-A	6 ml	Per Unit
61	Weighing Scoop	Class-A	10 ml	
62	Glass Rod (Stirrer)	Class-A	7x255 mm	Per Unit
63	Watch Glass	Class - A	100ml	Per Unit
64	Drum Sampling Pipette		Length 1000mm	Per Unit
65	Digestion tube			
66	Digestion tube holder tongs			
67	Pipette Stand			
68	Burette Stand			
69	Sample container		500gm	
70	Cleaning brush			
71	Sintered Gooch crucible		30 ml	

## Annexure-C

### **COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC) FOR ATOMIC ABSORPTION SPECTROPHOTOMETER (MODEL- AAS-4141 MANUFACTURER- ECIL)**

BIDS ARE INVITED FROM ONLY FROM ORIGINAL EQUIPMENT MANUFACTURERS (OEM) / AUTHORIZED SERVICE PROVIDERS (ASP) FOR ENTERING COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT FOR ATOMIC ABSORPTION SPECTROPHOTOMETER INSTALLED AT SOIL TESTING LAB RANCHI

#### **GENERAL TERMS & CONDITIONS AND JOB DETAILS**

THE QUOTATION SHOULD BE VALID FOR A PERIOD OF 12 (TWELVE) MONTHS. DURING CAMC OF ATOMIC ABSORPTION SPECTROPHOTOMETER ALL THE PARTS I.E ATOMIZERS OF FLAME & FURNACE, NEBULIZOR, BURNER, SPRAY CHAMBER, LAMPS, TURRET, DETECTOR, OPTICAL SYSTEM (MONOCHROMATOR ETC.), AIR COMPRESSOR, SOFTWARE, ELECTRONIC MODULES / PCB'S, FUME EXHAUST SYSTEM ALL TUBING & ITS ACCESSORIES, WILL BE COVERED UNDER THIS CONTRACT. AND ALL SUCH PART SHALL BE REPAIRED OR REPLACED BY THE SERVICE PROVIDER WITHOUT ANY ADDITIONAL COST TO THE PURCHASER

SERVICING INCLUDES VIZ. (A)ELECTRICAL AND OPTICAL PARTS REPAIR,(B) COMPLETE CLEANING OF THE MAIN PARTS OF THE INSTRUMENT/EQUIPMENT, INCLUDING MAINTENANCE OF UPS, COMPRESSOR ETC.(C) MAKING ALL ESSENTIAL ADJUSTMENTS INCLUSIVE OF REPAIRS AND REPLACEMENT OF ALL PARTS OF AAS AND ACCESSORIES / PERIPHERALS.

PRODUCT SHALL BE REPAIRED OR REPLACED BY THE SERVICE PROVIDERS WITHOUT ANY ADDITIONAL COST TO THE PURCHASER. ALL ACCESSORIES / CONSUMABLE / SPARE PARTS REPLACED SHALL BE FROM OEM /SUPPLIER OF SAME MODEL OR HIGHER VERSION. THE SERVICE PROVIDER FIRM SHOULD PROVIDE UPGRADATION OF SOFTWARE IF REQUIRED DURING CAMC.

THE DATE OF SERVICING OF THE INSTRUMENT/EQUIPMENT WOULD BE AT THE DISCRETION OF THE OFFICE PROCUREMENT OF THE PARTS WILL BE MADE BY THE SELECTED VENDER/SERVICE PROVIDER ON THE BASIS OF YOUR SERVICE REPORT AND YOU SHALL HAVE TO REPLACE IT WITHOUT ANY CHARGES. THERE SHALL BE 04 (FOUR) SERVICING-02 (TWO) PREVENTIVE MAINTENANCE VISIT + 02 (TWO) BREAKDOWN VISIT IN A YEAR FOR THE INSTRUMENT / EQUIPMENT.

IF YOU FAIL TO ATTEND THE BREAKDOWN WITHIN 120 HOURS AFTER COMMUNICATION BY THE ASSISTANT SOIL CHEMIST RANCHI TELEPHONICALLY AND / OR IN WRITING, THE DEPARTMENT RESERVES THE RIGHT TO GET THE WORK DONE FROM OTHER SERVICE AGENCIES AND RECOVER THE COST THERE OF FROM YOUR SERVICING CHARGES.

THE ONE YEAR PERIOD OF SERVICING WILL COMMENCE FROM THE DATE OF ACCEPTANCE OF CONTRACT BY THE ASSISTANT SOIL CHEMIST RANCHI. IN

THE EVENT OF BREAKDOWN /OR FAILURE IN INSTRUMENT /EQUIPMENT AFTER SERVICING, YOU WILL HAVE TO ATTEND THIS FORTH WITH.

DURING THE CONTINUANCE OF ANY CAMC, IF THE INSTRUMENT/EQUIPMENT BECOMES OBSOLETE /UNSERVICEABLE, THEN THE CONTRACT WILL BE TERMINATED IN THAT MONTH IT SELF IN WHICH THE MACHINE BE COMES OBSOLETE / UNSERVICEABLE. THE PAYMENT, THEREFORE, WILL BE MADE ON PRO-RATA-BASIS (MONTHLY RATE BASIS).

DURING THE COURSE OF SERVICING OR REPAIRING ASSISTANT SOIL CHEMIST, STL, RANCHI SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS DIRECT, INDIRECT OR CONSEQUENTIAL TO ANY PERSON OR PROPERTY/PROCUREMENT OF THE SERVICING AGENCY, AS A RESULT OF THE INSTRUMENT/EQUIPMENT OPERATIONS/BREAKDOWN OR ACCIDENT OR ANY OTHER CIRCUMSTANCES BEYOND THE CONTROL OF ADA, QCFL, RANCHI.

SERVICE REPORT HAS TO BE SUBMITTED TO THE ADA, QCFL, RANCHI AT THE TIME OF EACH SERVICING.

SHOULD ANY STATUTORY LEVY OR TAX OF ANY NATURE, INCLUDING SERVICE TAX BECOME APPLICABLE TO THIS AGREEMENT AT ANY TIME, IT IS UNDERSTOOD AND AGREED THAT SUCH INCIDENTS WILL BE BORNE BY THE SERVICING AGENCY.

SPARES (IF ANY) REQUIRED DURING THE CAMC PERIOD SHOULD BE SUPPLIED BY THE TENDER AWARDED FIRM.

**THE TENDERERS HAVING AUTHORIZATION & MAINTENANCE CERTIFICATE IN THE CAMC/AMC WORK FROM ANY A.A.S. MANUFACTURING COMPANY WILL CONSIDERED. BIDDERS NOT HAVING AUTHORIZATION & MAINTENANCE CERTIFICATE NEED NOT APPLY**

**Note:**

1. Services provider may quote CAMC charge for 3 (three) years but, payment will be released yearly.
2. **Services Provider should quote charge for AMC Also** for 3 (three) years but, payment will be released yearly.