

**E-TENDER FOR  
Supply and Installation of  
ATOMIC ABSORPTION SPECTROPHOTOMETER & OTHER  
SOIL TESTING EQUIPMENT FOR AMC-STLS AT 9  
DISTRICTS OF ANDHRA PRADESH**

**Tender No.: APAGROS/AAS-STL/2024-25**

**Tender date: 24<sup>th</sup> March' 2025**

**Last Date of submission: 08-04-2025**



**ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT  
CORPORATION LIMITED**

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## TENDER NOTICE

This Request for proposal/Tender Document is being published by APSAIDC Ltd, Government of Andhra Pradesh to select an agency(s) for supply of equipment for Soil Testing in the state of Andhra Pradesh to the Department of Agriculture.

All the interested bidders shall pay EMD and submit their Technical responses and financial responses (Online only) through AP e-Procurement platform i.e [www.apecurement.gov.in](http://www.apecurement.gov.in)

This RFP document comprises of 3 sections namely;

- Section 1 : Scope of Work and Technical requirements
- Section 2 : Instructions to Bidders & Bid Process
- Section 3 : Draft Contract Agreement

Bidders are advised to study this Tender document carefully before submitting the Bids in response to the Tender notice. Submission of a Bid in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications.

This Tender document is not transferable. Before submission of bids, bidders must ensure that scanned copy of all the necessary documents have been attached with the bid in the portal. APSAIDC Ltd is not responsible for delay in Bid submission due to any reason. Bidders are advised to submit the necessary EMD, and Bid documents on the e- Procurement Portal well in advance. Bidders are requested to attend a pre-bid meeting as per details provided on the e-Procurement Portal.

Critical Information:

Bid calling date	24-03-2025
Pre-Bid Meeting	26-03-2025;11 AM @ APSAIDC Ltd, Head Office
Date/time (On line)	08-04-2025 12.00 Noon Demo on functioning of the product must be displayed by the bidder on the same day
Communication to technically qualified bidders	10-04-2025 through e-mail/Phone
Financial Bid Submission (e procurement portal only)	08-04-2025 at 1.00 PM
APSAIDC Ltd Contact number: 9912880011	

**Note:**

- All the bidders should take care of validity of digital keys themselves.
- No assistance pertaining to digital keys from this office.
- Bidders should contact e-Procurement Portal contact No's only.

Tenders are invited by the APSAIDC Ltd, Government of Andhra Pradesh on e-Procurement platform from the original equipment manufacturers for the supply of equipment for Soil Testing in Andhra Pradesh at different locations as listed under "Annexure - B" of this document.

APSAIDC Ltd shall issue Purchase Orders (POs) to supply of Soil Testing Equipment based on the need and requirement from time to time. Bidders should note that all prices quoted shall remain unchanged for duration of One Year from the Bid closing date.

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## **SECTION 1: SCOPE OF WORK AND TECHNICAL REQUIREMENTS**

### **1. Introduction:**

Soil testing is a crucial activity that helps to determine the nutrient levels and overall health of the soil. To bring soil testing activities closer to farmers and encourage them to use optimum fertilizers based on soil health card reports, the Government of Andhra Pradesh has proposed to establish more soil testing labs in the state. This year, the Agriculture Department plans to collect soil samples at the village level, analyze them at existing and new soil testing labs, and distribute soil health cards to farmers.

The agricultural department has set a goal of analyzing a large number of soil samples, covering all the farmers in the state in coming years. To achieve this, the government has decided to procure advanced soil testing equipment and provide them to the proposed new soil testing labs in the state. This equipment's will help to increase the accuracy and efficiency of soil testing, ensuring that farmers receive the most reliable information about their soil health.

### **2. Scope of Work :**

Soil samples are collected from farmer's field and analyze the samples so as to educate the farmers to apply recommended dose of Fertilizers and also rectify micro nutrient deficiencies. In this connection it is decided to procure certain soil testing equipment to the Soil testing labs across the State.

The following activities are to be carried out by the bidder under this assignment;

- a) Supply the list of equipment to Soil Testing Labs as per the Technical specifications of this tender document. It is the responsibility of the bidder to ensure that all the related components are supplied.
- b) Provide Warranty as per Technical specifications and Tender conditions along with Onsite warranty for 3 years for the Equipment. The companies should honor to extend Onsite warranty for another 3 years as per the request or need of the department.
- c) The equipment has to be supplied / delivered at the locations of the Laboratories (the details are provided under Annexure - B of this document). It is the responsibility of the bidder to arrange for smooth transportation, installation, demonstration and training to the staff in operation of equipment to all Soil Testing Labs as stated under Annexure - B of this Tender document at their own cost. All the logistics has to be borne by the bidder. Bidder is responsible for any damages caused during the transportation. Any, such damaged items have to be replaced by the bidder at no additional cost to APSAIDC Ltd.

- d) Bidder is responsible for paying of all applicable taxes and levies which includes insurance if required during transit of items to locations stated under Annexure -B.
- e) The supply of equipment is strictly based on the need and requirement of the department and the number may increase or decrease at any point of time without any prior notice.
3. **Technical Specifications of Soil testing Equipment:** All the technical specifications of the items/equipment is stated under Annexure –A

#### 4. Project Duration & Timelines

##### 4.1 Duration

APSAIDC Ltd issues Letter of Intent (LoI) to the successful bidder(s). The successful bidder(s) has to submit Acceptance letter to VC & MD, APSAIDC Ltd., within 7 days from the date of LoI. Further, the bidder has to submit the Performance Bank Guarantee (PBG) in the form of a DD or Bank guarantee for an amount equal to 5 % of the total order value based on the type of equipment and is fixed by the APSAIDC Ltd. On receipt of Performance Bank Guarantee from the bidders, APSAIDC Ltd issues the Purchase Order(s) (POs) to the successful bidders based on the need and requirement, for the supply of equipment to the respective Soil Testing Labs across the State of Andhra Pradesh.

##### 4.2 Timelines

Activity-wise timelines is shown in the table below:

Sl. No.	Activity	Timelines by which activity needs to be completed
1	Issue of LoI (Letter of Intents) by VC & MD, APSAIDC Ltd, AP to the Successful Bidder(s)	$T_0$
2	Submission of PBG by successful bidders	$T_0 + 3 \text{ days} = T_1$
3	Issue of PO by APSAIDC Ltd	$T_1 + 2 \text{ day} = T_2$
4	Supply of Equipment to Soil Testing Lab	$T_2 + 15 \text{ days from date of issue of Purchase Order} = (T_3)$
5	Installation and Demonstration / Training on the equipment to Lab staff.	$T_3 + 3 \text{ days} = (T_4)$
6	Submission of Invoices and all related documents for processing of payment along with certificate(s) of successful demonstration of the equipment	$T_4 + 1 \text{ day}$

## **SECTION 2: INSTRUCTIONS TO BIDDERS & BID PROCESS**

### **1. General Instructions to Bidders**

**1.1 Completeness of Response:** Bidders are advised to study all the instructions, forms, requirements and other information in this document carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications. The response to this RFP should be full and complete in all respects. Failure to furnish any information required by the RFP documents or submission of a proposal not substantially responsive to this document will be at the Bidder's risk and may result in rejection of its Proposal.

### **1.2 Proposal preparation costs & related issues.**

The bidder is responsible for all costs incurred in connection with participation in this process, including but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings / discussions / presentations / demonstrations, preparation of proposal, in providing any additional information required by facilitating the evaluation process.

Will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

This RFP does not commit to award a contract or to engage in negotiations. Further, no reimbursable cost may be incurred in anticipation of award or for preparing this RFP or any costs for attending Prebid meeting or any costs incurred while participating in this tender.

### **1.3 Right to terminate the process:**

APSAIDC Ltd has the right to terminate the RFP process at any time and without any prior notice and without assigning any reason thereof. APSAIDC Ltd makes no commitments, express or implied, that this process will result in a business transaction with anyone.

This RFP does not constitute an offer by APSAIDC Ltd. The bidder's participation in this process may result in short listing of the bidder(s).

### **1.4 Amendment to RFP**

At any time, prior to the deadline for submission of bids APSAIDC Ltd may, for any reason, whether on its own initiative or in response to a clarification request by a prospective bidder, modify the bidding documents and can issue corrigendum. APSAIDC Ltd has the right to add or delete an item/equipment as well as to modify the Quantity or Specifications by issue of Corrigendum.

In order to allow prospective bidders reasonable time to consider the amendments while preparing their bids, the department at its discretion, may extend the deadline for the submission of bids.

1.5 **Language of Bid:** The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and APSAIDC Ltd shall be in English language only.

1.6 **Bid Document:** The Bidder shall complete the Technical Bid and Financial Bid furnished with this document giving details as per the format mentioned in the e-Tendering website [www.tender.apecurement.gov.in](http://www.tender.apecurement.gov.in). The bidder shall also complete the bid form and submit it along with the bid. Demonstration on the functioning of the equipment is mandatory on the scheduled date and all the prospective bidders should comply with it.

### 1.7 **Preparation of Proposals**

The Proposal as well as all related correspondence exchanged by the bidders and APSAIDC Ltd shall be written in English language, unless specified otherwise.

In preparing their Proposal, Bidders are expected to examine in detail the documents comprising the RFP. Material deficiencies in providing the information requested may result in rejection of a Proposal.

The Technical Proposals shall contain an Executive summary giving a brief overview of the way the bidder proposes to achieve the outcomes and the assessment of resources required. The bidder is expected to submit the Technical Proposal as per this document. Submission of the wrong type of Technical Proposal will result in the proposal being deemed non-responsive. The Technical Proposal shall not include any financial information.

### 1.8 **Submission of Responses**

The bidder shall submit the Technical Proposal & the Financial proposal must be submitted online through [www.apecurement.gov.in](http://www.apecurement.gov.in) only on or before last date & time given in this document.

The bids submitted by telex / fax / e-mail, etc. shall not be considered. No correspondence will be entertained in this matter.

The original proposal both Technical and Financial shall contain no interlineations or overwriting, except as necessary to correct the errors made by the bidders themselves. The same authorized representative who has signed the proposal shall initial the corrections.

An authorized representative of the bidder shall initial on all the pages of the original Technical and Financial Proposals and scanned document shall be uploaded online.

APSAIDC Ltd reserves the right to modify and amend any of the above-stipulated condition / criterion depending upon assignment/project priorities vis-à-vis urgent commitments.

**1.9 Financial Proposal**  
**Cost of Bidding:**

The Bidder shall bear all the costs associated with the preparation and submission of its bid and APSAIDC Ltd will in no case be responsible or liable for these costs, regardless of conduct or outcome of bidding process.

Content of Bidding Document:

The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents in format or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

The Bidder shall submit the Technical Bid and a Financial Bid as per the format mentioned in the e-Tendering website.

**2. Technical Eligibility Criteria**

Only those interested bidders who satisfy the following eligibility criteria should respond to this Tender. Bidders have to submit proper documentary proof mandatorily, for each of the clause, failing which the bid is subject to rejection.

<b>S. No.</b>	<b>Minimum eligibility Criteria</b>	<b>Proof to be submitted for fulfilling the eligibility</b>
1	The Bidder shall be original Equipment manufacturer of the items	Registration Certificate of the firm / Company duly signed and stamped.
2	The firm should have at least 3 years' experience. At least one experience certificate for 3 different years after 01.04.2023 in Manufacturing / Supplying such items.	Documents (Purchase orders) to prove that the company / firm have supplied such items in their business for 3 years from 01.04.2023 onwards. The bidder should submit the experience certificate for each calendar year separately. (Purchase Orders along with Installation Certificates).  <u>Client's feedback:</u> Satisfactory work execution reports from previous clients may be submitted on their letter head having contact details in the following points. <ol style="list-style-type: none"> <li>1. Timely completion: within time period/ extended period if any.</li> <li>2. Cost escalation issues: completed with the contract value / increased or</li> </ol>

		<p>decreased.</p> <p>3. Quality of work, equipment and performance:</p> <p>4. Attitude of agency &amp; After Sales service</p> <p>5. Commitment of the agency towards the warranty</p> <p>*(Note to client: 1 to 5 scaling may be given for the above points. Where 1 denotes least quality/performance and 5 denotes, is best quality/performance.</p> <p>1 is for poor performance, 2 for average, 3 for satisfactory, 4 for good and 5 for excellent. Aggregate total of above points if less than 3 are not qualified for bidding. The above satisfactory report may be certified by the Head of Institution / organization / Division i/c.</p>
3	In respect of manufacturers gross annual turnover of Rs.50.00 (fifty Crores) for last three financial years (FY 2021-22, 2022-23 & 2023-24).	Turnover Certificate by a Chartered accountant should be enclosed for FY 2021-22, 2022-23 & 2023-24.
4	The firm should be income tax assessment at least for a period of three years for the last 3 Assessment years.	Self-attested copies of the acknowledgments of Income tax returns for AY 2021-22, AY 2022-23 & AY 2023-24 and PAN Card of the firm should be enclosed.
5	The firm should be registered under GST.	Self-attested copy of the certificate of GST registration.
6	Earnest Money Deposit	The firm(s) shall require to submit the EMD through DD only.
7	Office & After Sale Service center in the state of Andhra Pradesh.	Declaration to be submitted on Letter Head to open own office and after sales service center in the state of Andhra Pradesh on award of contract for faster response and reducing downtime of machine.

**Note:**

- a) VC & MD, APSAIDC Ltd, Andhra Pradesh reserves the right to verify, if it so desires, the correctness of documentary evidence furnished by the bidder.
- b) VC & MD, APSAIDC Ltd, Andhra Pradesh reserves the right to seek clarifications if any at any point of time, regarding the documents submitted or any information furnished by the bidder.
- c) In the absence of the any supporting documents stated above, the bid will be rejected.

2.1 **EMD:** The bidders shall pay EMD in the form of Demand Draft in favour of APSAIDC Ltd, Vijayawada as mentioned against each with the technical bid enclosures. EMD shall be valid for 45 days beyond the last date of bid validity. The bidders can participate in any number of items of their choice.

<b>Sl. No.</b>	<b>Item description</b>	<b>Required No. (Approx.)</b>	<b>EMD</b>
1.	pH meter	09	10000
2.	Electrical Conductivity Meter	09	10000
3.	Flame Photometer with gas cylinder and motor	09	30000
4.	Calorimeter	09	10000
5.	Atomic Absorption Spectrophotometer with all accessories (Computer, Compressor, Printer, Gas Cylinders)	09	10,00,000
6.	Air Conditioner split (1.5 Ton Capacity)	09	25000

**Note :**

1. The number may increase or decrease based on the need and requirement
2. The Bidder can participate in bid for one item or multiple items of their choice
3. The EMD to be taken in the form of DD only for the items / for all the items being participated as per the above table and shall be submitted in sealed envelop on or before last date of submission of Bidding.

EMD of the successful bidder will be retained and the unsuccessful bidders will be returned without any interest. The EMD amount will be released immediately to the unsuccessful bidders.

Any attempt by a Bidder to influence the bid evaluation Process may result in the rejection of its RFP Proposal.

Bids received by the VC&MD, APSAIDC Ltd, Andhra Pradesh shall be evaluated by a Technical Expert Committee formed for evaluation purposes in the presence of authorized person of the Company/agency. All bids shall be initially checked for satisfying the Tender Eligibility Criteria mentioned above. All bids that satisfy the eligibility criteria shall be considered for the Technical evaluation process.

2.2 **Short listing Criteria:** APSAIDC Ltd will shortlist the schedule/item wise bidders list who meet the Qualification criteria mentioned in this RFP document.

2.3 **Technical Evaluation:** Only those bids which satisfy the Tender Eligibility criteria stated above shall be considered for the Technical evaluation.

- a) The Technical Evaluation Committee will evaluate the responses to the Tender and all supporting documents / documentary evidences. To assist in the examination, evaluation and comparison of bids VC & MD, APSAIDC Ltd, Andhra Pradesh at its discretion may ask the bidder for clarification / confirmation of compliance of its bid. The request for clarification/ confirmation of compliance and the response shall be in writing. However, no post bid clarification / confirmation of compliance at the initiative of the bidder shall be entertained. Inability to submit requisite supporting documents/documentary evidence, may lead to rejection of the bid(s).
- b) The Technical Evaluation Committee reserves the right to reject any or all proposals on the basis of any deviations/non-conformances.
- c) The Technical Evaluation Committee reserves the right to accept or reject any bid, and to annul the Tender process at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for this action.
- d) Each of the responses shall be evaluated as per the criteria and requirements specified in this Tender.
- e) The decision of the Technical Expert Committee / Tender Committee will be final and no negotiations will be entertained in this regard.

Bidder has to provide detailed technical specifications of the items they propose to supply (along with brochures, Product information leaflets), install and maintain for this project. After installation it is the responsible of the bidder to give complete hands on training on the product to the Lab staff. Also, it is mandatory for the bidders to provide the Datasheet of each item they propose.

**Note:** During execution of the purchase order, if it is found that the technical specifications of any one or all items are inferior / lesser than the technical specifications stipulated in this tender document, then VC & MD, APSAIDC Ltd, Andhra Pradesh shall technically disqualify the bidder and initiate appropriate legal action against such bidder.

2.4 **Technical Evaluation Criteria:**

2.5

<b>Sl. No.</b>	<b>Criteria</b>	<b>Marks</b>	<b>Maximum Marks</b>
1.	<p>Bidders should have supplied the items given in the schedule at least 15 Government Or Private Organizations in India in the last 5 financial years</p> <p>Purchase Orders and Documentary evidence for delivery on client letter head to be submitted.</p>	<p>&lt; 15 Organizations : 10Marks                      15-25 Organizations : 20 Marks                      &gt; 25 Organizations: 30Marks</p>	30
2.	<p>Bidders should have supplied at least 50 units per item to Government Or Private organizations in India, in the last 5 financial years.</p> <p>Purchase Orders and Documentary evidence for delivery on client letter head to be submitted.</p>	<p>&lt; 10 Units : 5 Marks                      11- 30 Units : 10 Marks                      &gt;30- 50 Units : 20 Marks                      &gt; 50 Units : 30 Marks</p>	30
3.	<p>Bidder should showcase and give Demo on the functioning of the items for which they submitted Quote, to Technical Expert Committee (on the day of submission of technical bid)</p> <p>The Committee will evaluate the items as per specifications. The functionality of the items shall be evaluated and marks will be awarded.</p>	40 Marks	40
<b>Total</b>			100

**Note :** Minimum Qualification marks : 75

3.0 **Commercial Bid Evaluation** : All commercial bids submitted on the e-Procurement portal of technically qualified bidders only shall be opened on the specified date and time. The Technical Expert Committee / Tender evaluation committee shall evaluate the commercial bid values to ascertain its compliance to the clauses / criteria stated in this tender document.

3.1 VC & MD, APSAIDC Ltd, Andhra Pradesh Right to Accept Any Bid and to reject any or All Bids.

VC & MD, APSAIDC Ltd, Andhra Pradesh reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids at anytime prior to award of Contract, without assigning any reason thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for VC & MD, APSAIDC Ltd, Andhra Pradesh action.

3.2 **Prices of Bid:** Prices shall be quoted entirely in Indian Rupees. The prices shall be on a fixed price basis and should not be linked to the Foreign exchange. The accommodation, travel expenses, logistics, freight charges, octroi and any other expenses for completing the Scope of Work, should be borne by selected bidder. The uploading of commercial bid along with the technical bid, will lead to rejection of the bid. The Charges/fees quoted should be inclusive of all taxes, duties, etc., and the same shall be deducted as per provisions of law. The bidder who has quoted the lowest all-inclusive price would be declared as L1 bidder.

3.3 **Reverse Auction:** The VC & MD, APSAIDC Ltd, Andhra Pradesh reserves the right to negotiate with the successful bidder based on the evaluation.

4 **Negotiations:** On completion of price bid evaluation, VC & MD, APSAIDC Ltd, Andhra Pradesh reserves the right to negotiate, if needed, with the L1 bidder(s) to reach a final agreement on procurement price and issue of Purchase order.

5 **Award of Contract:** VC & MD, APSAIDC Ltd, Andhra Pradesh, shall award the Contract to the successful bidder(s) whose bid has been determined to be substantially responsive and has been determined as the lowest price bid, provided further that the bidder abides by all clauses / criteria stated in the tender and is determined to be qualified to perform the Contract satisfactorily. In order to see the supply, execution of contract and commissioning Soil Testing Labs across the state of effectively and in a quickest possible time VC&MD, APSAIDC Ltd, Andhra Pradesh has the right to split the orders among the L1 and other lowest bidders subject to agreement to the terms and prices as of and at L1 (Based on the need and requirement of the department).

6 **Warranty:**

The Supplier warrants that the Goods / items supplied under this Contract are new, unused, of the most recent or current models and they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods / items supplied under this Contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

This warranty shall remain valid for duration mentioned in this tender after the Goods / items or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract.

All the equipment under this tender should be supplied with Three (3) years of Onsite Warranty from date of installation (except Glassware) and to extend another 3 years on therequest of the department.

The equipment offered must be a recent model and spares and services must be available forat least 5 years after the warranty period.

The OEM/Authorized by OEM must have their After-Sales service centers in Andhra Pradesh.

7 **Change Order:**

The Purchaser may at any time, by written order given to the Supplier, make changes within the general scope of the Contract.

If any such change causes an increase or decrease in the cost of, or the time required for the Supplier's performance (as a result of change in the volume/quantity of order) of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims bythe Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

- 8 **Contract Amendments** : Subject to tender clauses, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

- 9 **Bidder's authorized signatory** : A proposal should be accompanied by an appropriate board resolution or power of attorney the name of an authorized signatory of the Bidder stating that he is authorized to execute documents and to undertake any activity associated with the Bidder's Proposal. A copy of the same should be uploaded under the relevant section/folder on the e- Procurement portal. Furthermore, the bid must also be submitted online after being digitally signed by an authorized representative of the bidding entity.
- 10 **Signing of Contract:** VC & MD, APSAIDC Ltd, Andhra Pradesh will notify the successful Bidder that its bid has been accepted, VC & MD, APSAIDC Ltd, Andhra Pradesh will send the bidder the Contract Form, incorporating all the agreements between two parties.

Within 15 days of receipt of the Contract Form, the successful bidder shall sign and date the contract and return it to VC & MD, APSAIDC Ltd, Andhra Pradesh and send copy to VC & MD, APSAIDC Ltd, Andhra Pradesh.

- 11 **Assignment:** The Bidder shall NOT assign to any third party, in whole or in part, its obligations to perform under the Contract, except with the Purchaser prior written consent
- 12 **Subcontract :** The Bidder shall NOT subcontract this contract in whole or in part.
- 13 **Delays in the Supplier's Performance:**

Delivery of the Goods / items and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser in the tender.

If at any time during performance of the Contract, the Supplier should encounter conditions impeding timely delivery of the Goods / items and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable, after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

Except as provided under Force Majeure clause of this tender, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages (VC&MD, APSAIDC Ltd, Andhra Pradesh shall also blacklist the company/agency if found any deliberate or intentional delays), unless an extension of time is agreed upon pursuant to without the application of Liquidated damages.

#### 14 **Payment Terms ;**

Payment to the successful bidder shall be made as per the terms defined below. All payments shall be made in Indian Rupees only. Payments are subject to deduction of taxes. Penalties, if any, as per the Service Levels defined in this tender, shall be deducted from the payments to be made to the successful bidder;

- a) On Delivery: 75% (Seventy Five percent) of the contract price shall be paid after receipt of equipment at concerned Locations and submission of Acknowledgement of receipt of items duly signed along with seal from ADA of concerned Soil Testing Lab. (The bidder shall obtain individual UCs in the format communicated by VC & MD, APSAIDC Ltd, Andhra Pradesh).
- b) On Final Acceptance: The remaining 25% (Twenty Five percent) of the contract price of equipment shall be paid after successful installation, demonstration, Training and successful performance as certified by inspection team at the end user and upon the submission of consolidated Utilization Certificates from the concerned DAOs (In the format communicated by VC & MD, APSAIDC Ltd, Andhra Pradesh).

#### 15 **Force majeure:**

- a. The Firms/bidder shall not be liable for forfeiture of its EMD, liquidated damages, or termination for default if and to the extent that delays in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- b. For purposes of this clause, "Force Majeure" means an event beyond the control of the Firms/bidder and not involving the Supplier's fault or negligence and not foreseeable.

Such events may include, but are not restricted to, acts of VC & MD, APSAIDC Ltd, Andhra Pradesh in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

- c. If a Force Majeure situation arises, the Firms/bidder shall promptly notify the VC & MD, APSAIDC Ltd, Andhra Pradesh in writing of such condition and the cause thereof. Unless otherwise directed by VC & MD, APSAIDC Ltd, Andhra Pradesh in writing, the Firms / bidder shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

16 **Termination for insolvency** : VC & MD, APSAIDC Ltd, Andhra Pradesh may at any time terminate the contract by giving 30 days written notice to the Firms/bidder if the Firms/bidder becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Firms/bidder, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the APSAIDC Ltd.

17 **Termination for convenience**:

a) VC & MD, APSAIDC Ltd, Andhra Pradesh, may at any time by giving 30 days written notice to the Firms/bidder, terminate the Contract, in whole or in part, for its convenience. The notice of termination shall specify that termination is for the Department of Agriculture/Purchaser's convenience, the extent to which performance of the Firms / bidder under the Contract is terminated, and the date upon which such termination becomes effective.

b) VC & MD, APSAIDC Ltd, Andhra Pradesh may in the following events after giving a prior notice and conducting investigations if required, terminate:

- If the Bidder becomes Bankrupt or financially insolvent during the period of the contract.
- If it is found that the bidder has been convicted, blacklisted for any unlawful activities.
- If it is found that bidder has made gross misconduct or involved in practices injurious to the image and interest of the APSAIDC Ltd or has failed in performing his duties as per contract.

18 **Resolution of disputes** :

a) VC & MD, APSAIDC Ltd, Andhra Pradesh and the Firms / bidder shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.

b) If, after thirty (30) days from the commencement of such informal negotiations, VC & MD, APSAIDC Ltd, Andhra Pradesh and the Firms/bidder have been unable to resolve amicably a contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified here in. These mechanisms may include, but are not restricted to, conciliation mediated by a third party.

**The dispute resolution mechanism shall be as follows:**

c) In case of a dispute or difference arising between VC&MD, APSAIDC Ltd, Andhra Pradesh and the Firm /bidder relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, of India, 1996.

19 **Governing language:** The contract shall be written in English. All correspondence and other documents pertaining to the contract which are exchanged by the parties shall be written in same languages.

20 **Applicable law :** The contract shall be interpreted in accordance with appropriate Indian Laws.

21 **Binding Clause:** All decisions taken by VC & MD, APSAIDC Ltd, Andhra Pradesh regarding the processing of this tender and award of contract shall be final and binding on all parties concerned.

22 **Deviations:** The bidder shall not be allowed to make any deviation whatsoever from the terms and condition and technical specifications specified in the Bid. Bidder has to submit his/her self-declaration for the same.

23 **Confidentiality:**

Any attempt by a Bidder to influence VC&MD, APSAIDC Ltd, Andhra Pradesh in the evaluation of the bids or Contract award decisions may result in the rejection of its bid.

If any Bidder wishes to contact the VC&MD, APSAIDC Ltd, Andhra Pradesh during/after opening of the Bid to award of contract. He may do so in writing.

24 **Legal Jurisdiction :** All legal disputes are subject to the jurisdiction of Courts at Vijayawada only

25 **Notices:**

a) Any notice given by one party to the other pursuant to this contract shall be sent to the other party in writing or by Telex, e-mail, Cable or Facsimile and confirmed in writing to the other party's address.

b) A notice shall be effective when delivered or tendered to other party whichever is earlier.

26 **Taxes and duties:** The bidder shall be entirely responsible for all taxes, duties, license fee etc. incurred until delivery of the contracted services to Department of Agriculture or as per the terms of tender document if specifically mentioned.

27 **Standards:**

- a) The technology and quality of the service should be of the highest standards available in the present market.
- b) Before shipping, the identified Firm will inform Department of Agriculture giving full details about these standards and take approval.

28 **Performance Bank Guarantee:** The schedule / Item wise selected successful bidder(s) is required to furnish an unconditional and irrevocable Performance Bank Guarantee for an amount equal to 5% of the total order value based on the type of Equipment and is fixed by VC & MD, APSAIDC Ltd, Andhra Pradesh within the timelines stated in this tender. The Performance Bank Guarantee should be submitted for the total value of the item which includes Warranty costs and should be valid for 45 days beyond the warranty period. Failure of the successful bidder to comply with the requirement of submitting the Performance Bank Guarantee shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD.

29 **Rejection of Bids:** Besides other conditions and terms highlighted in the tender document, bids may be rejected under following circumstances.

30 **Technical Rejection Criteria**

- Bids submitted without EMD & Tender Processing fee or with improper EMD & Tender Processing fee.
- Bids which do not conform to required validity period of the bid as prescribed in the Tender.
- Failure to conform to eligibility criteria & Technical evaluation (Specifications) as per this tender.
- If the information provided by the Bidder is found to be incorrect/ misleading at any stage/time during the Tendering Process.
- Any effort on the part of a Bidder to influence the bid evaluation, bid comparison or contract award decisions.
- Bids without signature of person (s) duly authorized on required pages of the bid.
- Bids without power of authorization and any other document consisting of inadequate proof of the ability of the signatory to bind the Bidder.
- Technical Bid containing commercial details.
- Revelation of Prices in any form or by any reason before opening the Commercial Bid.
- Failure to furnish all information required by the tender Document or submission of a bid not substantially responsive to the Tender Document in every aspect.
- Failure to furnish proofs for information provided.
- Bidders not quoting for the complete Scope of Work as indicated in the

Tender documents, corrigendum / addendum (if any) and any subsequent information given to the Bidder.

- Bidders not complying with the Technical and General Terms and conditions as stated in the tender Document.
- The Bidder not conforming to unconditional acceptance of full responsibility of providing services in accordance with the Scope of work and Service Levels defined in this tender.
- If the bid does not conform to the timelines indicated in the bid.
- Any false declaration by the bidder during the bidding process, following action may be taken:
  - Liable for Legal Action
  - Forfeiture of entire EMD/PBG
  - Forfeiture of any Released payments
  - Blacklisting of the Vendor

### **31 Commercial Bid Rejection Criteria**

- Incomplete Price Bid
- Price Bids in which prices are not quoted or zero price quoted for one or more items.
- Total price quoted by the Bidder does not include all statutory taxes and levies applicable.
- Conditional price bid.

## **Annexures – Bid Submission Formats**

### **Annexure – 1**

#### **Technical Specifications Compliance sheet**

The Technical Specifications Compliance sheet provided in this Tender document has to be filled, and signed with seal by authorized signatory of the bidder and uploaded along with the Technical bid. Technical specifications supported by printed literature of the manufacturer, giving all the details of conformity and non-conformity if any be submitted. Additional features if any with support may also be submitted. Failure to submit the compliance sheet or bids with incomplete compliance sheet may be rejected by VC & MD, APSAIDC Ltd, Andhra Pradesh.

**Annexure – 2  
Tender form**

Date:  
Tender No.

To  
The Vice Chairman & Managing Director,  
APSAIDC Ltd,  
Guntur, Andhra Pradesh

Sir,

Having examined the Tender Documents including Corrigendum / Addendum Nos..... [*insert numbers*], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver..... (*Description of Goods and Services*) in conformity with the said tender documents for the sum stated in the e- Procurement portal for this tender.

We undertake, if our tender is accepted, to deliver the goods in accordance with the Project Deliverables, Project Duration & Timelines.

If our tender is accepted, we will obtain the guarantee of a bank in a sum equivalent to 5% percent of the total Contract Price or as fixed by VC&MD, APSAIDC Ltd, Andhra Pradesh for the due performance of the Contract, in the form prescribed in this tender.

We agree to abide by this tender for the Tender validity period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India.

We understand that you are not bound to accept the lowest or any tender you may receive. We clarify/confirm that we comply with the eligibility requirements as per clauses of the tender.

Dated this ..... day of .....2025

(Signature) (in the capacity of)

\_\_\_\_\_

Duly authorized to sign Tender for and on behalf of \_\_\_\_\_

**Annexure –3**  
**Turnover**

[Auditor's certificate shall be issued by the Chartered Accountant Firm/Chartered Accountant who regularly audit the Company's accounts]

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the annual turnover furnished by << COMPANY NAME >> for last 3 years i.e. 2021-2022, 2022-23 & 2023-24 as below. This is as per the Statement of Accounts which has been duly verified by me and found correct.

<b>Financial year</b>	<b>Total Turnover of the Company (Rs. In Lakhs)</b>	<b>Total Turnover from sales (Rs. In Lakhs)</b>
2021-22		
2022-23		
2023-24		

Chartered Accountant Name &

Address: Signature:

Seal:

## Annexure – 4

### **Manufacturer Authorization Form (MAF) [On Original Equipment Manufacturers' (OEM) Letter Head]**

**Note:** *This letter of authority should be on the letterhead of the concerned manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer.*

#### Manufacturers Authorization Form

(MAF) Date: dd/mm/yyyy

To,  
The VC & MD,  
APSAIDC Ltd, Guntur

Sir,

Sub: Manufacturer Authorization for Supply of Soil Testing Equipment.  
Ref: Tender No: <TENDER REFERENCE NUMBER> dated  
<DD/MM/YYYY>

\*\*\*\*

We,... (name and address of the OEM manufacturer), who are established and reputed manufacturers of\_(name and description of goods offered) having factories at\_\_\_\_\_(addresses of manufacturing locations) do hereby authorize M/s\_(name and address of the Bidder) to submit bid, negotiate and sign the contract with you for the items manufactured by us against the above-mentioned tender.

We also certify that the Products offered would not be discontinued or be declared end-of-life or end-of-support for a period of 5 years from the date of Purchase Order.

We hereby extend our full guarantee and Onsite warranty for 3 (Three) years, as per tender clauses for the items offered for supply and support by the above firm against this tender.

Yours faithfully,

(Name)  
(Name of the OEM and seal)

**Annexure – 5**

**Undertaking on Not Being Black-Listed(On company/Agency letter head)**  
**Undertaking on Not Being Black-Listed**

Date:

To,  
The VC & MD,  
APSAIDC Ltd, Andhra Pradesh

Sir,

Sub: Undertaking on not being blacklisted.

Ref: Tender No: <TENDER REFERENCE NUMBER> dated<DD/MM/YYYY>  
\*\*\*\*\*

We hereby confirm that << COMPANY NAME >> is not blacklisted by the Government of Andhra Pradesh or any of its agencies for any reasons whatsoever and not blacklisted by Central / any other State / UT Government or its agencies for indulging in corrupt or fraudulent practices or for indulging in unfair trade practices as on date of publishing of this tender.

Yours faithfully,

Authorized Signatory

Name of Signatory:

Date:

Place:

**Note:** This undertaking should be on the letter head of the bidder and should be duly signed and sealed by the authorized signatory of the bidder.

## Annexure – 6

### Undertaking on Acceptance of Terms and Conditions in Tender (On company/Agency letter head)

Date:

To,  
The VC & MD,  
APSAIDC Ltd, Andhra Pradesh

Sir / Madam,

Sub: Undertaking on acceptance of terms and conditions of this Tender.

Ref: Tender No: <TENDER REFERENCE NUMBER>, Dt <DD/MM/YYYY>

\*\*\*\*\*

I have carefully gone through the Terms & Conditions contained in this tender document.

I hereby confirm that all the provisions of this tender Document & Corrigendum / Addendum issued are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,  
Authorized Signatory  
Name of Signatory:  
Date:  
Place:

**Note:** This undertaking should be on the letter head of the bidder and should be duly signed and seal affixed by the authorized signatory of the bidder.

**Annexure-7**

**Undertaking on litigation(s)  
(On company's letter head)**

To,  
The VC & MD,  
APSAIDC Ltd, Andhra Pradesh

Sir,

Undertaking on litigation(s)

This is to certify that << COMPANY NAME >> is not involved in any major litigation(s) that may have an impact of affecting or compromising the delivery of services as required under this Tender.

Yours faithfully,

Authorized Signatory

Name of Signatory:

Date:

Place:

**Note:** This undertaking should be on the letter head of the bidder and should be duly signed and seal affixed by the authorized signatory of the bidder.

**Annexure-8**

**Performance Bank Guarantee (PBG)**

To,  
The VC & MD,  
APSAIDC Ltd, Andhra Pradesh

WHEREAS..... (Name of Supplier)  
hereinafter called "the Supplier" has undertaken, in pursuance of Contract  
No....., dated,..... to supply.....(Description  
of Goods and Services) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier  
shall furnish you with a Bank Guarantee by a recognized bank for the sum specified  
therein as security for compliance with the Supplier's performance obligations in  
accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:  
THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on  
behalf of the Supplier, up to a total of .....  
..... (Amount of the Guarantee in Words and Figures) and we  
undertake to pay you, upon your first written demand declaring the Supplier to be in  
default under the Contract and without cavil or argument, any sum or sums within  
the limit of (Amount of Guarantee) as aforesaid, without your needing to prove or  
to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of 2025.

Signature and Seal of Guarantors

.....  
.....  
.....

Date.....2025

Address:.....  
.....

### **SECTION 3:**

#### **DRAFT CONTRACT AGREEMENT**

THIS AGREEMENT made the .....day of ....., 2025  
Between ..... (Name of purchaser) of..... (Country of  
Purchaser) (here in aftercalled "the Purchaser") of the one-part and  
..... (Name of Supplier) of..... (City and Country of  
Supplier) (Here in after called "the Supplier") of the other part:

WHEREAS, the Purchaser is desirous that certain Goods and ancillary services viz.  
(Brief Description of Goods and Services) and has accepted a tender by the Supplier  
for the supply, installation & maintenance of those goods and services in the sum  
of..... (Contract Price in Words and Figures) (Here in after called "the  
Contract Price"). NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - a) this Tender document no. .... / ..... / .....
  - b) all corrigendum / addendum published for this tender
  - c) the Tender Form and the Price Schedule submitted by the Bidder;
  - d) the Schedule of Requirements;
  - e) the Technical Specifications;
  - f) the General Conditions of Contract;
  - g) the Special Conditions of Contract; and
  - h) Technical Bid, Commercial Bid & other letters (if any) from vendor accepting a bid to the tender conditions.
  - i) The Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services which shall be supplied/ provided by the Supplier are as under:

(Information for Bidders it should not be uploaded in e-Portal)

Sl. No.	Brief Description of Goods & Services	Quantity To Be Supplied	Unit price	Total price	Delivery terms

TOTAL VALUE:

DELIVERY SCHEDULE:

IN WITNESS where of the parties here to have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by  
the said (For the Purchaser)  
in the presence of: .....

Signed, Sealed and Delivered by the  
said (For the Supplier)  
in the presence of:.....

## Annexure –A

(Equipment with Specifications)

### 1. Specifications of Atomic Absorption Spectrophotometer (AAS)

S.No	Parameters	Specifications
1	Type of Atomic Absorption Spectrometer (AAS)	Double beam
2	Monochromator type with diffraction grating	Czerny-turner / Holographic grating with 1800 lines/mm
3	Detector Type	Photo Multiplier Tube (PMT)
4	Spectral Source Wavelength - Minimum and maximum	185 nm to 900nm with (+/-) 0.5 nm accuracy and automatic Wavelength setting and scanning, repeatability 0.2 nm
5	Slit width range(nm)	0.1 - 2.5nm with automatic adjustment
6	Resolution (nm/mm)	1.5 parts per million
7	Bandwidth (nm)	0.1-2.5nm
8	Focal length (mm)	300 and above
9	Light Source	Hollow Cathode Lamp (HCL)
10	Type of HCL	Both Single and Multiple Element
11	Number of Single element HCLs supplied (inclusive in the scope of supply)	4 (Cu, Fe, Zn, Mn)
12	Measuring modes (K factor and standards)	Transmittance, Absorbance, Concentration (Wavelength, time), Emission
13	Detectable Elements using single element HCL	Cu, Fe, Zn, Mn
14	Detectable Elements using multi element HCL	Cu, Fe, Zn, Mn
15	Measurement level	ppm level
16	Lifespan of Single element lamp (mA-Hr)	5000
17	Number of sockets on Turret	8
18	Type of atomizer	Flame Burner
19	Nebulizer	Pneumatic nebulizer concentric tube
20	Background Correction	D2 Lamp method
21	Burner diameter (mm)	100
22	Coolant	Air type
23	Sample volume	5-6 milliliter
24	Corrosion resistant Chamber	Yes
25	Adjustable aerosol based nebulizer flow	Yes
26	Time for analysis (sample)	10 second
27	Display	inbuilt display and PC controlled
28	Display type	LCD with Backlight

29	Test result printing	Through external printer
30	Connectivity	USB or Ethernet
31	Safety sensors	Pressure sensor, Flame Sensor, Flame Ignition Sensor, Burner interlock, Power failure protection, Nebulizer Sensor, Auto ignition
32	Burner movement (lateral, horizontal & height)	Automatic
33	Power Supply	230 V A.C $\pm$ 10%,50 Hz
34	Minimum Operating Temperature	10-15 degree Celsius
35	Maximum Operating Temperature	35-45 degree Celsius
36	Operating Humidity (RH) (%) at 40 degree c	85 percent (%)
	<b>ACCESSORIES</b>	
37	Type of gas cylinders	Acetylene
38	Type of Regulators supplied	Without Heater
39	Number of Regulators Supplied (inclusive in the scope of supply)	2
40	Number of Acetylene Cylinders supplied (inclusive in the scope of supply)	2
41	Capacity of each Acetylene cylinder (Litres)	47
42	Gas cylinders confirming to	IS : 7285 or latest
43	Gas cylinders having PESO certificate	Yes
44	Other accessories (inclusive in the scope of supply)	Gas flow control box, Oil Moisture Filters, SS Exhaust fume hood with blower, Schematic diagram and instruction manual
45	warranty (Year)	3 year
46	Spares and Consumables inclusive in the scope of supply	Yes
<b>47</b>	<b>CERTIFICATION</b>	
48	Availability of UL/CE Certification as per EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use General requirements	Yes
49	Conformance to EMC/EMI as per EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use	Yes

50	Availability of Test Reports from Central Govt. / NABL approved / ILAC accredited Lab to prove conformity to the specification	Yes
51	Desk Top Surveillance (Computer with printer)	PC with monitor (24") Latest configuration in licenced operating system (i7 processor or latest Intel original M/B, 512 GB SSD, 16 GB DDR4 RAM etc.) and multifunctional duplex laser printer. However data station should be compatable to process minimum 400 compounds in a single use. USB 2.0, USB 3.0, wireless key board, wireless mouse, display bar, monitor size 24".
52	Air Compressor	Required compressor (oil free compressor HS- WP1T, 3/4 HP with 20 lt tank) with test certificates, SS , double stage regulators, pipes with fittings and purifier for the system should be provided with system in o1 quantity
53	UPS	5KVA- rating of online UPS( KVA) , 60 min back up time of online UPS, IGBT-PWM with inbuilt isolation transformer, 12 V of each battery and SMF- VRLA conforming to JISC: 8702( Pt. I, II& III) type of battery
54	Gas Purification panel	For gases: Acetylene and Air: Gas purification panel with all 1/4 and Quot; fitting, SS trap, inlet pressure guage, out let guage, toggle valve etc., manifold with pig tail, stand and regulator block- 2 nos. x 2 sets. Accessories: cylinder clamp - 2 nos. x 2 sets. Casing capping - 10m x 2 sets.1/4 & Quot; nut ferrule- 25 no x 2 sets. hard ware 1 sets for each
55	Other Accessories	Suitable, durable wooden / acrylic chamber fit to size & dimensions of AAS equipment to protect it from rodent pest damage, suitable table for placing the instrument.

## **2. SPECIFICATIONS OF COLORIMETER:**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Specifications</b>
1	Calorimeter outer container	Aluminum with rolled rim
2	Shape of the container	Cubical
3	Type of cover	Sliding
4	Calorimeter vessel	Copper
5	Calorimeter vessel size (Height x dia), in mm	75x50
6	Weight of vessel in gm marked on Colorimeter	Yes
7	Material of stirrer	Copper
8	Stirrer with loop at the bottom to fit inside the Calorimeter	Yes
9	Stirrer size (Height x dia), in mm, (min)	75 x 3.5
10	Thermometer holder, removable	nickel plated brass
11	Insulating material filled between the Calorimeter vessel and outer container	Felt (Textile material)
12	The product with all its detachable accessories is suitably packed to avoid transit damage	Yes
13	Product catalogue and user manual provided along with supplies	Yes
14	Wave length range	400-700nm with 8 optical filters
15	Filter's Peak Wavelength (nm)	420, 440, 490, 520, 540, 570, 600, 720 & Above
16	Measuring Modes	%T, ABS, Conc (upto two times ABS)
17	Photometric Resolution	0.1°/o T, 0.001 Abs upto 1.999 Abs (O.D.)
18	Display	2 Line 16 Character LCD
19	K-Factor Range	0 to 1999
20	Concentration	0 to 2 times the absorbance
21	Memory	Data can be Stored in memory
22	Sample Volume (ml)	1 ml in 4ml Test tube/Cuvette
23	Source	White LED
24	Detector	Hermetically Sealed photodiode
25	Printer Port	Epson compatible 80 column D.M. Printer
26	Power	230V +10°, 50 Hz
27	Dimension	160 (W) X 200 (D) x 100 (H) mm
28	Weight	1.5 Kg (Approx)
29	Accessories	a) Four test tubes, b) Two Glass Cuvettes
30	Warranty	3 Years

### **3. SPECIFICATIONS OF FLAME PHOTOMETER:**

<b>Sl. No.</b>	<b>Parameters</b>	<b>Specifications</b>
1	Reproducibility (+/-, in %) and Accuracy	0.03
2	Operating Humidity & RH& (%)	Operating temperature range: 10 to 35 degree or Better, RH: 0 to 85% @ 35% or Better
3	Accessories:	Each unit of Flame photometer shall be supplied with offered filters and Sample Beaker (05-Nos), Power pod, Gas and air tube, instruction manual
4	Display	at least 3 lines LCD, Digital (2 1/2 digits)
5	Flame photometer is capable to analyse elements in sample:	Sodium, Potassium, Calcium, Lithium
6	Filters: Each unit of Flame Photometer to be supplied with filters for Sodium and Potassium, in addition the offered unit to be supplied with filters for	Lithium and Calcium
7	Flame photometer shall be supplied with built in oil free air compressor with Built-in Air Filter with pressure regulator & gauge to deliver stable and moisture / oil free air supply:	Yes
8	Whether the Flame photometer unit is offered with digital interface along with software required for sharing sample data in digital form with computer:	Yes
9	Aspiration rate (ml/min)	3.5
10	Sensitivity (Sodium/ Potassium / Lithium :1ppm and for Calcium: 15 ppm):	Yes
11	Detector	Photodiode
12	Flame Photometer has memory sufficient to store and recall at least 800 samples:	Yes
13	Power Requirement:	230 V +/- 10, 50 Hz AC single phase supply
14	Printer Port (RS 232/USB) available:	Yes
15	Certification & Warranty	Yes (3) Three Years
16	System Package	Main unit type 130 & compressor unit type 126
17	SENSITIVITY of Sodium, Potassium, Lithium an Calcium	2ppm, 1ppm, 7 ppm, 30 ppm
18	Accuracy	+ 2% of FSD
19	Display	Digital (2 1/2 digits)
20	Minimum Sample Volume	3.5ml
21	Aspiration time	30 sec. approx.
22	Air Supply Pressure	0.3 to 0.6 Kg/cm <sup>2</sup>
23	Power	230V,50Hz
24	Dimension of Main Unit	380 mm(D) x 220 mm(W) x 270mm(H)
25	Dimension of Compressor	215 mm(l) x 255 mm(B) x 235 mm(H)

#### 4. SPECIFICATIONS OF DIGITAL ELECTRICAL CONDUCTIVITY METER :

Sl. No.	PARAMETERS	SPECIFICATIONS
1	Display type	3 and half digit LED display
2	Power supply	220-240 V AC, 50 Hz
3	Measurable Conductivity range	Range selection through a switch, 0 $\mu$ S to 200 mS with 1.0 cell constant (5 decadic ranges)
4	Maximum of measuring Range for conductivity (mS/cm)	200
5	Number of Ranges (Nos.)	4
6	Resolution ( $\mu$ S/cm)	0.1
7	Source Frequency	100 Hz or 1KHz automatically selected
8	Accuracy (in +/- %)	1
9	Cell Constant	1 (Adjustable/ selectable)-0.9 to 1.1
10	Facility for measurement of absolute cell constant	yes
11	Auto Cell Constant measurement	Not Available
12	Type of Temperature Compensation	Manual
13	Range of temperature compensation (degree celsius)	0 to 100
14	Weight of the tester (grams)	100 gram
15	Dimensions (LXWXH) (cmXcmXcm)	23.5X18.5X8.5
16	Details of All other accessories to be supplied along with the meter	Dust Cover, 1 Cell Constant Cell, Clamp & Stand
17	Warranty	3 years

### **5. SPECIFICATIONS OF DIGITAL PH METER:**

<b>SL. NO.</b>	<b>PARTICULARS</b>	<b>SPECIFICATIONS</b>
1	Warranty	3 years
2	Storage pocket for pH electrode	Yes
3	System to be supplied with Measuring electrode combined & glass calomel, temperature probe, Electrode Stand, calibration buffer and maintenance kit, operation manual, power cable and plug	Yes
4	Type of configuration	Microprocessor Based
5	Display	LED / LCD / Touch Screen, 3 digits, 3 1/2-Digit Red LED Seven Segment with automatic polarity & decimal point
6	Calibration	Up to 2 points
7	pH Range (pH)	0.00 to 14.00
8	Accuracy (pH)	-0.05
9	Corrosion Resistant	Yes
10	Power Requirements	230 V + 10, 50 Hz AC
11	Modes	pH, mV, relative mV (RmV) or ORP with temperature
12	Parallel temperature indication	Yes
13	Temperature Compensation Type	Manual
14	Temperature Accuracy (Degree C)	-0.5
15	Temperature Compensation Range (Degree C)	0 to 100° C Dig. Display (Manual)
16	Resolution (pH)	0.01pH, 1mV in mV mode
17	Operating Humidity: RH in (%)	80
18	Operating Temperature (Degree C)	45
19	Millivolt Range	0 to + 1999mV
20	Slope Correction	85% to 115%
21	Repeatability	+ 0.01 pH + 1 digit for pH, + 1mV +1 digit for mV
22	Standardization Range	+ 1 pH (Approx.)
23	Dimension	235 (W) X 185 (D) x 85 (H) mm
24	Weight	1.25 Kg (Approx.)
25	Accessories	Combined Electrode, stand & clamp
26	Optional Accessories	Pt. Electrode & Calomel Electrode for Potentiometric Titration, Temp. Sensor pt 100

## **6. SPECIFICATIONS OF SPLIT AIR CONDITIONER WALL MOUNT TYPE :**

<b>Sl. No.</b>	<b>PARAMETERS</b>	<b>SPECIFICATIONS</b>
1	Classification By Function	Cooling only
2	Nominal Marketing Cooling Capacity (in Ton) {Hint: 1 Ton= 3000 Kcal/Hr, Tolerance +/- 10%}	1.5 Ton
3	Nominal Cooling Capacity (in Watt) {Hint: 1 Ton = 3165-3870, 1.5 Ton = 4750-5800, 1.8 Ton = 5801-6330, 2.0 Ton = 6331-7736, 2.5 Ton = 7913-9670}	4750-5800
4	Star Rating (ISEER value range)	5 Star (ISEER value from > =5 to <=5.5)
5	Compressor Type as per BEE Star Rating Label	Inverter AC - Variable Speed
6	Heating Capacity (in watts)	NA for Cooling only
7	Material of Evaporator & Condenser	Copper
8	Material of Air Filter (on indoor Unit)	Synthetic Fiber
9	Reusable Air Filter	Yes
10	Actual ISEER Value as per BEE Star Rating Label	5.04
11	Cooling Capacity (100%) as per BEE Star Rating Label (in Watt)	5050
12	Other Equivalent/Better Alternate Models Offered against offered (bid) models (hint: it is applicable in case of bid only)	IC/ID/SNUR/TNUR/VNUR
13	Eco-friendly Refrigerant	Yes
14	Refrigerant Global Warming Potential (GWP)	675 (For R 32)
15	Refrigerant Ozone Depletion Potential is Zero	Yes
16	Salient Features/Remote Control Features	Turbo Mode, Dehumidification Mode, Power Saving Mode, Auto Clean Mode, Self Diagnosis Mode, Quiet Mode, Dry Mode, Cool Mode, Fan Mode, Air Swing, Timer, Sleep Mode, Auto Off, Fan Speed Control, Power (On Off), Temperature Up/Down
17	Salient Accessories	1 m (PVC Insulated sheathed cables as per IS:694), 3 m Refrigerant Copper pipe set + connecting cable

		(Installation Kit), Remote, User Manual, Warranty card
18	Comprehensive Warranty on Air Conditioner/Machine (in years)	3 years
19	Warranty on Compressor (in years)	10 years
20	Optional Warranty on PCB	Same as machine warranty
21	Installation/Commissioning	With Free Standard Installation Commissioning
22	Number of free services during the Comprehensive Warranty on Air Conditioner/Machine	2 services per year
23	Turn Around Time (TAT) After Sales Service Calls	48 hours for Capital Cities (State Capitals) / 72 hours for District place (Municipal Corporation Cities) / 120 hours for Rural (Gram Panchayat)
24	Mandatory compliance / conformity to relevant ISS	As per IS 1391 (Part 2) - Latest and as per Gazette Notification no. S.O. 3897(E), Dt:29th October 2019 and as per BEE Notification dated 19th April 2022
25	Latest version of STC for the product category has been seen, understood and agreed	Yes
26	Type of lab which carried out test of complete product to prove the conformity of product as per governing specification	Certificate of Govt. Lab/NABL/ILAC accredited
27	Copies of test reports / certificates and other certifications to be furnished to buyer on demand at time of supplies	Yes

**Note:** The Specifications provided above are minimum and the bidders are free to quote any equipment which is equivalent or better in terms of specifications.

#### Quality of the Equipment & Timeliness of Supply:

The successful bidder should not compromise on the quality and should supply the equipment strictly as per tender specifications.

The entire infrastructure supplied by the Bidders will be verified by a team of technical experts after the completion of supply and installation.

Any equipment, if found sub-standard or not as per Tender specifications, the supplier is liable to the action taken by the AP State Agro Industries Development Corporation Limited and the Supplier will be blacklisted in the state on participation of future Tenders and the same will be publicized across the country.

### **Annexure-B**

The bidders shall deliver/supply the Equipment/items to the Soil Testing Labs mentioned below. All the logistics charges, handling charges, insurance (if any), applicable taxes etc., shall be borne by the bidder.

<b>Sl. No</b>	<b>District</b>	<b>Location of the Lab</b>
1	Parvathipuram Manyam	AMC STL at Parvathipuram
2	Alluri Seetharama Raju	AMC STL at Paderu
3	Dr. B.R. Ambedkar Konaseema	AMC STL at Ambajipeta
4	Eluru	AMC STL at Nuzivid
5	Krishna	AMC STL at Gudivada
6	Nandyal	AMC STL at Nandyal
7	Annamayya	AMC STL at Royachoti
8	Sri Satya Sai	AMC STL at Penugonda
9	Chittoor	AMC STL at Chittoor

Vice Chairman &  
Managing Director