



EOI SCHEDULE

**FOR SUPPLY, INSTALLATION,
COMMISSIONING, VALIDATION OF PESTICIDE
TESTING LABS 2017-18**

Last date for submission	: 07-06-2017 up to 11.00 a.m.
Date of opening of technical Quotation	: 07 -06-2017 at 12.00 p.m.



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

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A.P.S. AGRO INDUSTRIES DEVELOPMENT CORPORATION LTD.

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EOI SCHEDULE

Name of work: FOR SUPPLY, INSTALLATION, COMMISSIONING,
VALIDATION OF PESTICIDE LAB EQUIPMENTS .

Ref: AGROS/FMD/EOI/2017-18, Dated. 15.05.2017

INSTRUCTIONS TO OFFERER(S)

A. PREAMBLE :

The Department of Agriculture, Government of Andhra Pradesh State are requiring various types of Lab equipment etc., to their Pesticide lab Equipments in the State of Andhra Pradesh through the Nodal Agency A.P.S Agro Ind. Dev. Corp. Ltd. (APSAIDCL), a Government of Andhra Pradesh undertaking for procurement and commissioning of Lab equipment.

B. ELIGIBLE CONDITIONS FOR EOI SCHEDULE:

1. The manufacturers / importers should have minimum of 3 years experience in supply and commissioning of scientific equipment to the Government Departments / Institutes, such as Universities. Firms must furnish **performance certificate** from concerned Department / Institution in support of the above.
2. The firm must have works contract registration and Sales Tax Certificate from appropriate authorities (copies to be enclosed.)
3. The firms shall have VAT, CST (TIN) Registration and PAN Number.
4. The firms shall have annual turnover of not less than Rs.20.00 Lakhs in 3 last financial years and proof of same to be submitted.
5. The firm who are importing equipment must have importing licence and they should produce authorization letter from the principal manufacturer.
6. The Offer Should enclose demand draft for Rs. 5000/- drawn in favour of A.P.S.A.I.D.C. Ltd., Payable at Vijayawada towards cost of EOI Schedule.

C) INSTRUCTIONS FOR SUBMISSION OF EOI SCHEDULE

1. The Offerer shall submit EOI Schedule with all documents along with Rs.5,000/- demand draft, covering letter with EMD indicated in Annexure-I in a separate sealed cover duly Super scribing "Technical quotation for EOI Schedule for Supply, Installation, Commissioning & Validation of Pesticide lab equipment" and Price Quote as per Annexure-III in a separate sealed cover duly super scribing "Price quote for Supply, Installation, Commissioning & Validation of Pesticide lab equipment" with name and address of the offerer. Both covers are to be placed in a third cover as stipulated under Item No.3 of the instructions for submission of EOI schedule duly super scribing "EOI Schedule for Supply, Installation, Commissioning & Validation of lab equipment."
2. The offerers who are supplying the remaining scientific lab equipment, the Earnest Money Deposit (E.M.D.) will be an amount of **Rs.50,000/- (Rupees Fifty thousand Only)** shall be paid in the form of Demand Draft drawn in favour of **A.P.S.A.I.D.C. Ltd., payable at Vijayawada** along with a covering letter. EOI Schedules without EMD will be rejected.
3. The Earnest Money Deposit of successful firm shall be retained by the Corporation and refunded only after satisfactory completion of the contract. The EMD can be adjusted against performance guarantee deposit for successful offerer(s). The E.M.D. and performance guarantee deposit will not carry any interest.
4. Performance guarantee deposit of scientific lab equipment @ **5% on the total value of equipment** shall be paid in favour of A.P.S.A.I.D.C. Ltd., payable at Vijayawada in the shape of Demand Draft from any Nationalized Bank. The performance guarantee shall be valid for 3 years.
5. a) Performance guarantee produced by the successful offerer shall be forfeited and alternate arrangements shall be made, if the firm does not fulfill the obligation of supply of stocks as per orders / specification / quality and alternate arrangements will be made for procurement of such products and any additional cost incurred in this regard will be recovered from the concerned firm.

b) The responsibility of quality and quantity of the lab equipment supplied lies with supplier only.
6. The Offerer shall submit duly notarized declaration along with EOI, as per the proforma furnished under Annexure-IV, hereto on Rs.100/- non-judicial stamp paper.
7. The authorized person representing the firm who is signing in the EOI documents and also participating in the EOI opening shall invariably attach a copy of authorization from the competent authority of the firm as per the By-laws of the firm / Company.

8. The last date for submission of EOI schedule **is upto 11.00 A.M. on 07-06-2017, the EOI Schedule will be opened at 12.00 P.M.** on the same day at Registered office Vijayawada.

D) GENERAL TERMS & CONDITIONS

1. The EOI price quote of only those offerer(s) whose Technical EOI Schedules are qualified will be opened with due intimation to them.
2. Negotiations will be held as per the decision of the Technical Committee at the address indicated in the data sheet. The aim is to reach agreement on all the points and sign a contract.
3. The **agreement period will be up to 31-03-2018.** No escalation charges will be paid for supply of items during the agreement period.
4. The supplies made shall be invoiced on VAT invoice with Serial No. of invoice printed on it. No invoice other than tax invoice will be accepted. VAT applicable, if any, shall be clearly mentioned in the tax invoice.
5. The approved firm shall supply the ordered equipment as per terms and conditions within the stipulated time indicated in the Purchase Order.
6. In the case of Annexure-II, the items supplied must be covered with warranty for minimum of three years (or more as per manufacturer's terms & conditions) from the date of supply against any defective manufacturer / workmanship etc., repairs / replacements / servicing shall be attended free of cost within the warranty period.
7. The firm should submit the Utilization Certificate and delivery Invoice from the Assistant Director of Agriculture of concerned lab for effecting the payment.
8. The loading and unloading charges, if any, should be borne by the supplier only.
9. The firm shall provide detailed operational and maintenance manuals at the time of supply of the equipment.
10. The offerer has to quote the price only as per the technical specifications given in the EOI schedule.
11. Andhra Pradesh State Agro Industries Development Corporation Limited (APSAIDC Ltd) reserves the right to inspect the manufacturing / other premises of supplier and his principal/s during the EOI process or before

- supply or before payment in order to satisfy that the supply is as per the quality and specifications of equipment indicated in this EOI.
12. Andhra Pradesh State Agro Industries Development Corporation Limited reserves the right to award the EOI either in part or full or follow any other suitable procurement procedure. AP AGROS at its sole discretion and without assigning any reason thereof, reserves the right to accept / reject any or all schedules at any stage of the EOI process.
 13. In case of any dispute or difference arising out of the Agreement between the two parties relating to any aspect of the agreement, the parties should attempt to settle the dispute through mutual and amicable discussions. If the dispute is not settled through such discussions, the matter shall be referred / settled as per provisions of Arbitration and Conciliation Act, 1996.
 14. It is further to be agreed by both the parties that all differences and disputes if not resolved as above, shall be got remedied through the Court of Law of Hyderabad jurisdiction only.
 15. EOI can be rejected if any stage of the procurement process, it comes to knowledge that any offerer is involved in any fraudulent practice or misrepresentation of the facts or tried to influence the selection process or indulged in any corrupt activities in competing with others.
 16. The manufacturer/ importer shall be liable for blacklisting and further prosecution, if they fail to adhere to the above conditions.
 17. The approved firm shall enter into an agreement with the Corporation duly incorporating all the above terms & conditions.
 18. The equipment shall be supplied to Pesticides labs to the Soil Testing Laboratories at required destinations. The offerer shall provide all information as per this EOI document. AP AGROS shall evaluate only those schedules that are received in the required format and are complete in all respects.

E) INSTALLATION, COMMISSIONING & VALIDATION

1. All tools, equipment and machinery required for the installation and commissioning work has to be arranged by the successful firm only.
2. The period stipulated for completion of supply, installation, commissioning, validation and training of personnel shall be 90 days from the date of receipt of Purchase Order.
3. Penalty for delay in work will be levied @ 0.5% of the total value of Work per week upto a minimum of 5% in case of default in work completion within the stipulated time.

F) INSURANCE

The contractor shall insure all goods for all risks to the extent of value of goods specially mentioning that the claim amount under the policy shall be payable to AP AGROS. The contractor shall borne the insurance charges for all risks for the goods for the period upto expiry of warranty.

G) WARRANTY

The performance guarantee period shall be 3 Years from the actual date of supply / commissioning of equipment in all respects. The same shall have to be communicated in writing to AP State Agro Industries Development Corporation Limited based on the actual date of completion of all works.

H) CERTIFICATION PROCESS FOR PAYMENT

a. EQUIPMENT / MATERIAL RECEIPT CERTIFICATE

Issue of material receipt note / goods receipt notes at site by Agricultural Officer and Assistant Director of Agriculture of concern Laboratory in charge stating that all the Equipment is received as per the specification. (List to be enclosed)

b. INSTALLATION & COMMISSIONING CERTIFICATE

Issue of installation and commissioning Certificate by Assistant Director of Agriculture of concern Laboratory Incharge and countersigned by Joint Director of Agriculture of concerned district.

c. COMPLETION CERTIFICATE

Completion Certificate will be issued by A.D.A. of Laboratory Incharge and countersigned by Joint Director of Agriculture of concerned district after complete validation and training to the personnel of Agriculture Department.

I) TERMS OF PAYMENT

Payment shall be released as indicated below, subject to receipt of funds from Commissioner & Director of Agriculture.

- a) The payment will be made against the submission of delivery challan by the supplying firm duly signed and certified by the Assistant Director of Agriculture incharge of the concerned Laboratory stating that all the equipment is received, installed and commissioned as per the specifications and the work done by the firm is satisfactory.

J) SPECIAL INSTRUCTIONS TO THE FIRMS

1. The firms should submit technical specifications / brochures / information, users list etc. along with offer.
2. The supplier should conduct working demonstration of the equipment and train the working personnel of Department of Agriculture of concerned Lab.
3. List of fast moving spares and its selling price should also be enclosed. List of accessories which are recommended to be purchased separately for each item should be clearly mentioned in the offer.
4. The successful supplier will make a pre-delivery presentation about the details of equipment being supplied both to the Officers of AP AGROS and the A.D.A's incharge of concerned laboratory.

Place:
Date :

SIGNATURE OF THE OFFERER
WITH SEAL

SCHEDULE -VI
CONDITIONS OF ELIGIBILITY FOR APPLICANT
(Attested copies wherever relevant to be enclosed)

1	EOI Reference	:	No:Agros/FMD/EOI/2017-18 Date: 15 -05-2017	Page no.
2	a) Name of the Manufacturing/ supplying Company with its Regn. No. (copy of the manufacturing license to be enclosed) b) Name of the Importing company with its Regn. No. (copy of the Importing license to be enclosed)	:		
3	Status of Company	:		
	i) Registered Company	:		
	ii) Sole proprietorship firm (Name & address of the proprietor)	:		
	iii) Partnership firm (Partnership agreement, letter of consent as authorized by other partners to attend for this EOI)	:		
	iv) Private Limited Company (Certificate of incorporation and authorization from CEO if not represented by CEO)	:		
4	Registered Address of manufacturer/supplier	:		
5	Particulars of Demand draft enclosed towards cost of EOI schedule if the EOI schedule is downloaded from website	:	DD No. DD Date: for Rs.5,000/- Name of the Bank	
6	Details of EMD paid	:		

	DD No: Date: Bank Name: Amount:	:		
7	Brief Profile of the firm	:		
8	Import License No. (copy to be enclosed)	:		
9	Bank particulars for online transfer of amounts <ul style="list-style-type: none"> • Name of the Bank: • Branch of the Bank • Account Number • RTGS No 	:		
10.	Specific authorization letter from the Principal manufacturing company (for importers only) (if yes copy to be enclosed)	:		
11	Whether the Company is ISO certified or not (If 'yes' copy to be enclosed)	:		
12	Proof of having sufficient no. of experienced technical teams for training & operations management (Details: names of persons, qualifications and experience)	:		
13	Annual production capacity certificate / Annual import capacity certificate	:		
14	Turnover of the above machinery during last 3 years. <p style="text-align: right;">a.2013-14 b.2014-15 c.2015-16</p>	:		
15	Experience / performance certificate from clients / Govt. departments/	:		

	Organizations during last 2–3 years about supply of these equipment.			
16	Details of dealers’ net work and after sales service stations to be provided by firm in the area of operation.	:		
17	VAT Regn.No. / CST. No. and their validity (copies to be enclosed)	:		
18	PAN No. (copy to be enclosed)	:		
19	Audited accounts balance sheet for the last 2 years. (attested copies to be enclosed)	:		
20	Income Tax assessment Certificate for the last 2 years (attested copies to be enclosed)	:		
21	Name of contact person with address & Phone no. Email:	:		
22	a) Detailed Technical specifications of all the equipment quoted in the Price bid. (List to be enclosed)	:		

(Add additional sheets as required)

NOTE:

1. All the columns of the application form shall be duly, properly and exhaustively filled in.
2. All corrections if any must be signed by the Offerer before submission itself. For filing faulty information, the EOI is liable for rejection. The Offerer should sign on each and every page of EOI schedule and on all the additional documents submitted along with EOI schedule.
3. The applicant can enclose additional information, if any, relevant to the application separately
4. At the time of verification of EOI schedules, the original documents should be produced for verification.

SIGNATURE OF OFFERER WITH SEAL

TECHNICAL QUOTATION

**LAB EQUIPMENT FOR STRENGTHENING OF PESTICIDE TESTING
LABORATORIES**

Annexure II

Sl. No.	Description of equipment	Please indicate the (✓) mark
	LAB EQUIPMENTS	
1	HPLC(High performance liquid chromatography) – with UV Vis detector	
2	Analytical Balance (Option I)	
3	Analytical Balance (Option II)	
4	UV Spectrophotometer with double beam	
5	Deep Freezer(-30 ⁰ degrees) with 200 L capacity (Horizontal)	
6	Rotary Vocuum Evaporator for FTIR	
7	Flash Point apparatus	
8	Electronic sieve shaker along with sieves calibrated by an NABL accredited agency.	
9	Fume hood Cupboard 5' (Sample issuing & opening of acid bottles)	
10	Vacuum Pump ½ HP 1440RPM 45 Ltrs Capacity (Oil free type)	
11	Computer with 4GB Ram and Laser Printer Duplex	
12	ELISA(Enzyme Immune Sorbent Assay) complete unit	
13	Flourescent Microscope with phase contrast attachment	
14	Software for chemito GLC – Irish – 32 with branded PC (specs for PC are as given separately)	
15	branded 3KV UPS along with maintenance free batteries for 2 hrs. backup	
16	branded 5KV UPS along with maintenance free batteries for 2 hrs. Backup	
17	Analytical Balance of 5 digit with 220 gms along with printer	
18	Freezer of 400 lts with deep freezer capacity - 30 ⁰ centigrade	
19	Canon Ir 2520 desktop with DADF & duplex by Canon Computer with printer specs are already laid down and the same may be procured – the brand name and models cannot be proposed	

	for procurement.	
20	Suction Pump	
21	5 Digit Electronic Balance-NABL Certificate	
22	HPLC – UV Vis detector with auto sampler	

PESTICIDE LAB EQUIPMENTS

Sl. No.	Name of the PTL	Name of the Equipment with specification	Required No.
1	2	3	4
1	Ananthapuram	UV Spectrophotometer with double beam and UPS -3KV batteries	1
		Analytical Balance (Option II)	1
		HPLC – with UPS 5 KV, Batteries	1
		Vacuum Pump ½ HP 1440RPM 45 Ltrs Capacity (Oil free type)	2
		Fume hood Cupboard 5' (Sample issuing & opening of acid bottles)	1
		Analytical Balance of 5 digit with 220 gms along with printer	
		Freezer of 750lts with deep freezer capacity -300 degree centigrade	1
		Canon Ir 2520 desktop with DADF & duplex by Canon	1
		ELISA(Enzyme Immune Sorbent Assay) complete unit	1
		Flourescent Microscope with phase contrast attachment	1
2	Kurnool	Analytical Balance of 5 digit with 220 gms along with printer	1
		Fume hood Cupboard 5' (Sample issuing & opening of acid bottles)	1
		UV Spectrophotometer with double beam and UPS -3KV batteries	1
3	Visakapatnam	HPLC – with UPS 5 KV, Batteries, with 2489 Detector, 515 HPLC Pump, 2707 Auto sampler	1
		UV Spectrophotometer with double beam and UPS -3KV batteries-1800 model	1
		Software for GLC – Irish – 32 chemito with branded PC	1
		Analytical Balance (Option I)	1
		Vacuum Pump 0.5 HP ,1440RPM 45 Ltrs Capacity (Oil free type)	1
		Fume hood Cupboard 5' (Sample issuing & opening of acid bottles)	1
		Flash Point	1
		Electrical measuring sieve shaker along with calibrated selves	1
		Deep Freezer(-300 degrees) with 200 L capacity (Horizontal)	1
Suction Pump	1		

		Canon Ir 2520 desktop with DADF & duplex printer	1
4	Guntur	Software for GLC – Irish – 32 chemito with branded PC	1
		ELISA(Enzyme Immune Sorbent Assay) complete unit	1
		Fluorescent Microscope with phase contrast attachment	1
5	Tadepalligudem	UV Spectrophotometer with double beam and UPS -3KV batteries-1800 model	1
		Fume hood Cupboard 5' (Sample issuing & opening of acid bottles)-Kemi Company	1
		5 Digit Electronic Balance-NABL Certificate	1
		Rotary Voccum Evaporator for FTIR	1
		Deep Freezer(-300 degrees) with 200 L capacity (Horizontal)	1
		Computer with 4GB Ram and Laser Printer Duplex	1
		ELISA(Enzyme Immune Sorbent Assay) complete unit	1
		Fluorescent Microscope with phase contrast attachment	1

1) Specifications for High Performance Liquid Chromatograph (HPLC) with UV-Vis detector

The HPLC must be a microprocessor controlled, with extensive self diagnostics and can be operated by an external PC through chromatography software besides the following configuration and specifications.

The Pump:

- binary solvent delivery pump
- should deliver constant and pulse free solvent ranging from 0.01ml to 10.0ml/min with a precision of 0.075% RSD or better.
- The effective delay volume should be less than 700 micro liter independent of back pressure.
- Should meet a flow accuracy of $\pm 1\%$ or 10 ul/min, whichever is greater.
- should have a pressure range of 0 to 5000 psi or more for entire flow range
- the solvent delivery should provide a retention time reproducibility of less than 0.3 RSD
- should have the ability to maintain the custom defined/programmed solvent composition.
- should have a minimum of Eleven (11) gradient curves (including position at all flow rates/pressure ranges, in increments of 0.1% linear, step (2), concave (4), and convex (4)
- should have a composition accuracy of $\pm 0.5\%$ absolute, independent of backpressure.
- Should have the facility to calibrate the flow and readjust the real time flow values.
- Should have the mechanism for auto purging
- Should have the facility to monitor the pump status like flow, pressure etc.,

In line degasser:

An integrated degasser to de gas in line of all the four solvents be supplied which works continuously and efficiently.

Auto sampler (optional):

- Should have Injection range of 0.1 - 100 μ l in 0.1 μ l increments. Should be upgradable to 1500 μ l or more.
- Injection cycle time should be 20 μ l or less
- Injection precision should be less than 0.3% RSD or better.
- Sample Capacity should be 100 x 2ml vials or more.
- Carryover: should be less than 0.005% or 50 ppm

Column Oven:

Thermostatically controlled Column oven to accommodate up to 30 cm Column, preferably a microprocessor based, conforming to ISO 17025 preferable with the NABL accredited lab certificate.

- should have a range of ambient to 65⁰ C or better
- should have an accuracy of 1⁰ C
- should have indicators/monitor to know the status of the instrument.

The Detector: UV-Vis. Detector with the following specifications.

- should have a wave length range of 190 – 600 nm
- should have a band width of 2 nm or better
- should have a wave length accuracy of 1 nm
- should have a very good reproducibility of absorbance at least 0.0001 or better
- should have a linearity of 5% at 1.5 AU propylparaben, at 257 nm.
- should have a base line Noise less than 5.0×10^5 AU, 230 nm.
- should have a drift less than $\pm 5 \times 10^4$ AU/hr/ °C, 230 nm.
- Should have the lamp optimization facility
- should have self diagnostics to check the system function and calibration
- should have an easy operation to calibrate the system
- should be able to function individual or through the chromatography software operated externally through a PC

Columns: The following columns may be supplied along with **each instrument**

1.	Silica column	250mm X 4-6mm id, 5 mic	2no.
2.	C ₁₈ column	250mm X 4.6mm id, 5mic	4nos.
3.	C ₁₈ column	250mm X 4.6mm id, 10mic	1 no.
4.	C ₈ Column	250mm X 4.6mm id, 5mic	1 no.

Guard Column: Suitable guard column sets (2 no's) with C¹⁸ inserts should be supplied along with the instrument.

Injector Port: Rheodyne fixed loop injector assembly with trigger type should be supplied along with the instrument. Should be provided variable pre calibrated sample loops with maintenance kit .

Solvent filtration kit: All glass solvent filtration apparatus with suitable filter membranes to filter aqueous and organic solvents should be supplied.

Sample clarification kit: Stain steel sample clarification kits 2 No's along with membranes should be supplied.

Vacuum pump: Vacuum pump must be a dry/PTFE coated diaphragm based, operational under 220V/50Hz and constructed with chemical resistant materials.

Should have an out put of vacuum of 800 mm Hg or better
Should have pressure gauge/ monitor

Ultrasonic bath: The Ultra sonic bath must accommodate up to 3 liter flask with a thermostatic controlled heater facility .

UPS: An uninterruptable power supply system (of reputed brand with proven performance record) of 5 KV capacity with 2 hours backup supported by maintenance free sealed batteries should be supplied along with the system, with each instrument.

Data Handling Software and PC :

- The personal computer with latest processor and configuration with LCD monitor and Laser jet Printer should be supplied along with the instrument.
- The latest software which is compatible with the chromatography software should be supplied. A Original windows latest software which is compatible with the chromatography software be supplied with the system.
- The chromatography software should be of latest of its version and be able to collect the data **from two Detectors simultaneously** .
- The software should facilitate easy method building, data integration and custom report generation.
- The software should facilitate manual as well as auto integration of the data.
- The software should have all the features required for audit trail under GLP/GMP with a password locking facility.
- The software should have a real time display of the chromatogram and the process sample details.

Other conditions:

The specifications are only a guide line and the supplier is at liberty to quote the better options also, but the Instrument model should have been brought in to the market recently with a proven record whose working demonstration can be arranged within the town in a short notice.

- should have a three years warranty period for the equipment including the pc and should be willing to undertake AMC/CMC for five years after warranty period.
- Quotation for AMC/CMC (for five years) should be shown under a separate head in the price bid.
- The manufacturer/supplier preferably provide support with required spares and services for a minimum period of ten years of the model of the instrument quoted.
- All the required accessories should be supplied along with the instruments for its optimum performance.

- The manufacturer/ supplier should have their presence in India by way of supplying and providing after sales service of their instrument including the annual maintenance after the guarantee period.
- The manufacturer/supplier should arrange the training program in India for at least two analysts in operation of the instrument, its simple maintenance as well as thoroughness in application of software either at our laboratories or their manufacturing site or any of their centralized laboratory/application center/learning school.
- **The cost of the consumables during warranty period may be quoted along with main bid.**

Important Note: *The Instrument supplier must be either the original manufacturer or their authorized distributor/dealer and an authorization letter to that effect must be enclosed along with the quotation in case of latter.*

2) UV-Vis Spectrophotometer with double beam

UV-Vis Spectrophotometer should be microprocessor based with latest external computer with following specifications.

Photometric System	:	True Double beam optics
Monochromator	:	Czerny-Turner mounting monochromatic system
Detector	:	Photomultiplier tube
Light source	:	Halogen lamp, Deuterium lamp, auto position adjustment of light source
Wave length range	:	190 to 1100nm
Wavelength accuracy	:	$\pm 0.1\text{nm}$ at 656.1nm D2
Wavelength repeatability	:	$\pm 0.05\text{nm}$
Scanning speed	:	Wavelength slew rate: about 14000nm/min
Wavelength scan rate	:	about 4000 to 0.5nm/min
Spectral bandwidth	:	Variable spectral band width from 0.5, to 4nm adjustable
Resolution	:	0.1nm
Photometric modes	:	Absorbance(Abs), Transmittance(%T), Reflectance(%R), Energy(E)
Photometric range	:	Absorbance -2 to 2 Abs or better
Photometric accuracy	:	± 0.003 Abs(at 1 Abs) or better with NIST standard.
Photometric Repeatability	:	± 0.001 Abs (at 0.5Abs) or better
Computer system	:	Latest Personal computer with 4 GB Ram, LCD monitor and laser printer(multi mode) <ul style="list-style-type: none"> - Latest original Microsoft windows operating software - Latest Spectroscopy software which enables the scanning, wavelength program, kinetics, single wave and multi wave length measurements- quantisation of unknowns in percentage from single point and multiple point (calibration curve), scanning, etc.,
Guarantee/Warranty	:	3 years
Accessories	:	All the required accessories for smooth operation of the spectrophotometer and essential consumable and non consumable spares also be supplied.
AMC/CMC	:	The supplier may quote for AMC/CMC for the next 5 years along with main bid.
Service	:	There must be manufacturer's after sales service centre in Andhra Pradesh to provide regular servicing of the systems.

3) Electronic balance- Analytical (Option I)	Micro processor based Analytical Electronic balance with the following specifications.
Weighing capacity	160g or above
Readability	0.1mg
Repeatability	0.1 mg
Linearity	± 0.2 mg
Calibration	- Internal calibration
Other features	Overload protection should exist Piece counting, Percent weighing, Check weighing, Dynamic weighing, Statistics. Formulation, Totaling, Free factor, Memory Recall facilities should exist.
Calibration certificate	calibration certificate from an NABL accredited Laboratory under ISO 17025 in the name of Laboratory should be provided
Warranty	Two years warranty

4) Electronic balance- Analytical (Option II)	Micro processor based Dual Scale Analytical Electronic balance with the following specifications.
Weighing capacity	160g /50g or above
Readability	0.1mg/0.01mg
Repeatability	0.1 mg/0.01
Linearity	± 0.2 mg/ 0.1mg
Calibration	Internal calibration
Other features	Overload protection should exist Piece counting, Percent weighing, Check weighing, Dynamic weighing, Statistics. Formulation, Totaling, Free factor, Memory Recall facilities should exist.
Calibration certificate	calibration certificate from an NABL accredited Laboratory under ISO 17025 in the name of Laboratory should be provided
Warranty	Two years warranty

5) Deep freezer	<p>should work on 230V /50 Hz and shock proof &vibration proof 400 Lt capacity. should work quietly Frost free Hard top horizontal freezer with 2 shelves/baskets To regulate temperature up to -30° C or better. with external temperature –digital read out and CFC free meets the calibration requirements. Should be supplied along with calibration</p>
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	certificate in the name of the customer as per ISO-17025-2005 from any NABL accredited laboratory.
6) Rotary vacuum evaporator Bench top with chiller.	<p>Micro processor based RVE to work on 230 V/50 Hz.</p> <ul style="list-style-type: none"> -with digital display of speed and temperature etc., Programmable speed up to 270 rpm or better -with hand lift and height & angle adjustment facility -with PTFE seals -water bath temp. adjustable up to an accuracy of $\pm 1^{\circ}\text{C}$ -dry type vacuum pump with two stage diaphragm valve with a capacity to reach 9m bar or better (adjustable) -with an integrated programmable chiller (CFC free refrigerant) .
7) Flash point apparatus fully automated- Microprocessor based, Abel model	<p>Should operate on 220v/50Hz</p> <p>Should work from 0- 100°C</p> <p>Should have the facility to scan the flash point from lower to higher and higher to lower temperatures and should give an average value which is of within $\pm 0.5^{\circ}\text{C}$ accuracy & reproducibility.</p> <p>The data should be saved in the system and be able to retrieve the data later.</p> <p>The system should be ISO-17025-2005 compliant and have been calibrated in a certified calibration laboratory under ISO-17025-2005</p>
8) Electronic sieve shaker along with set of sieves	<p>To work on 230 V 50H.</p> <p>Horizontal circular motion</p> <p>With digital timer and auto settings</p> <p>Noise less</p> <p>set of sieves from 45μm to 2mm calibrated by an NABL accredited agency.</p>
9) Fume cupboard	<p>Fume hood mounted on table with two rack 5'x2.5' size and other standard sizes may also be quoted.</p> <p>Body with 18 gauge sheet and PC painted Glass doors</p> <p>Baffle type air handling system be provided</p> <p>Should be Vibration free & noise less (<70dbs)</p> <p>Measured sensor auto cut off</p> <p>Electrical socket 15A (2) & 5A (2) plus internal lighting with FL</p> <p>Separate valves for air , vacuum and Nitrogen should be provided</p>

	Duct should be constructed with 200mm dia 4mm thick rigid FRP pipe Platform should have been constructed with good quality black granite top And other common features.
10) Vacuum pump	To work on 220V/50 Hz. Dry type with Twin diaphragm Should be chemical resistant, With suction capacity of 30L/min and able to achieve vacuum -750mm/Hg With a gauge to monitor the pressure/ vacuum. Noise level should be around 50dB
11) Computer	Core i5;RAM; Memory 4 GB minimum; HDD 1 TB; Display 1280×1024 , (1024×768 or larger), ; Drive DVD-ROM drive; TFT LED Screen 23 inch Monitor; Keyboard, Mouse; OS - Windows7 (64bit) or better. Printer: Branded multimode laser colour printer of latest version.
12) ELISA kit along with reader and other accessories.	I. ELISA plate washer: -to work on 230V/50hZ a. Microprocessor based programmable washer. b. programmable soak time, wash cycle, and dispensing volumes. c. multi step shaking. d. with a minimum memory of 100 wash programs. e. 8 channels washing manifold. f. programmable dispensing. g. Residual volume < 2ul h. LCD display. II. Micro plate reader. a. Microprocessor based programmable reader. b. Wave length options of 405,450,492 and 630nm with a minimum of 3 additional filter positions. c. Linear absorbance range of 0.0 to 3.0 d. Photometric accuracy should be $\pm 2\%$ from 1.0 to 1.5 A and $\pm 3\%$ above 1.5A. e. Optical measurement 8 channel. f. Drift should be $\pm 0.003A/hr$. g. Linear measurement range should be from 0.0 to 3.0A h. Analysis mode- Quantitative, semi quantitative, and qualitative with good inbuilt memory. i. Should generate Data report as per the user

	<p>program .</p> <p>j. Should generate permanent reports and graphs.</p> <p>k. Preferably an external printer (laser) should be provided .</p> <p>l. Should have smooth plate carrier movement.</p> <p>m. Should meet calibration requirement as per ISO/IEC 17025-2005 and provide a certificate in the name of our Laboratory.</p>
<p>13)Fluorescence compound microscope</p>	<p>Simple water proof structure, Microscope body with Infinity corrected optical system, 3-step light path switching.: Side portlight path BI 100%/TV 100%/ BI:TV = 50:50, 9.5 mm stroke, coarse/fine adjustments. 1micron step. Focus limits and knob tension adjustment. (coarse knob),simple waterproof structure</p> <p>Illumination System: 12V 100W Pre centered Halogen and Neutral density Filters, Interference Contrast and Day Light filter should be quoted.</p> <p>Focusing: Coaxial course and Fine</p> <p>Revolving Nosepiece: Sextuple coded revolving nosepiece to accommodate six objectives at a time.</p> <p>Stage : Mechanical right hand stage with fixed handle. Enough travelling range 120mm an 85 mm (XY) applied for slide glass, 35mm dish as well as multi well plate. circle stage inserts included. Sample holder for slide glass, 35mm dish, multi- well plate as option. Stage stopper function is implemented for time-lapse or operation on stage.</p> <p>Observation Tube: Wide field Trinocular,</p> <p>Epi fluorescence: should have Coded Eight Position or more Turret Fluorescence Illuminator(100 watts) with Built in shutter. Fluorescence filters for Fluorescence filters for FITC, DAPI,CFP, GFP,CY3 & CY5.</p>
	<p>Condenser: Long working distance universal condenser NA 0.55, W.D. 27mm 5 positions for optical devices such as Phase and DIC.</p> <p>Objectives: High performance Objectives suitable for Bright field, Phase,& Fluorescence imaging.</p> <p>Plan semi apochomat phase 10X /NA 0.3 Or better</p> <p>Long working distance Plan semi apochromat phase 20X/ NA 0.45 or better</p> <p>Long working distance Plan semi apochromat phase 40X/ NA 0.60 or better</p>

	<p>Long working distance Plan semi apochromat phase 60X/ NA 0.70 or better</p> <p>Eyepiece : (10x), Field Number (FN): 22 or better and diopter adjustment facility on both eyes. 100% light for viewing, 50% - 50% viewing & photography, 100% light for photography. (anti-fungus)</p>
Camera	<p>Camera unit with 1/1.2 inch chip, with resolution of more than 12 million pixel, 2.3 MP Color global shutter CMOS with a pixel size of 5.86um or better, Peltier cooling for better fluorescence applications, should have a speed of more than 55fps at resolution of 2.3 megapixels, Capable of acquire colour and monochrome image. The camera should have a functionality of capturing the image of complete slide by capturing multiple images and stitching them together.</p>
Software	<p>Should act as an interface between the digital camera and the computer system. It should have the following features Software for Automatic counting of cells,image capturing , Motorized Control of Fluorescence turret & Z Motorized Focus, user experience customization, overlay multiple images, document groups for side by side image comparison, movie playback, Tile image, slice view for orthogonal plane viewing of 3D or time lapse data sets, snap /movie acquisition, Online Deblur / deconvolution should be present, Co-localization, fluorescence unmixing, offline ratio analysis and High dynamic range Imaging, timelapse at specific intervals, Z stack, Multiple image alignment, Instantly create Extended focal images (EFI), Live deblurring, Image processing, Image analysis, Count and Measure Basic , automatically compose word report.</p>
Computer	<p>Core i5;RAM; Memory 4 GB minimum; HDD 1 TB; Display 1280×1024 , (1024×768 or larger), ; Drive DVD-ROM drive; TFT LED Screen 24 inch Monitor; Keyboard, Mouse; OS - Windows7 (64bit) or better, Firewire Port for IEEE1934a.</p>
Monitor	<p>24" LED branded colour monitor</p>
Printer	<p>Branded multimode laser colour printer of latest version.</p>
14)Software for GLC	<p>Irish – 32 chemito with branded PC</p>

15) branded 3KV UPS along with maintenance free batteries for 2 hrs. backup	UPS: An uninterruptable power supply system (of reputed brand with proven performance record) of 3 KV capacity with 2 hours backup supported by maintenance free sealed batteries should be supplied along with the system, with each instrument.
16) branded 5KV UPS along with maintenance free batteries for 2 hrs. backup	UPS: An uninterruptable power supply system (of reputed brand with proven performance record) of 5 KV capacity with 2 hours backup supported by maintenance free sealed batteries should be supplied along with the system, with each instrument.
17)Analytical Balance of 5 digit with 220 gms along with printer	The offerer has to furnish technical specifications
18)Freezer of 400 lts with deep freezer capacity -30⁰ centigrade	The offerer has to furnish technical specifications
19)Canon Ir 2520 desktop with DADF & duplex by Canon Computer with printer specs are already laid down and the same may be procured – the brand name and models cannot be proposed for procurement.	The offerer has to furnish technical specifications
20)Suction Pump	The offerer has to furnish technical specifications
21)5 Digit Electronic Balance-NABL Certificate	The offerer has to furnish technical specifications
22)HPLC – UV Vis detector with auto sampler	The offerer has to furnish technical specifications

PRICE QUOTE

ANNEXURE- III
PRICE QUOTE
(as per specifications mentioned in Annexure-II)
SCHEDULE

Lab Equipment for strengthening of Pesticide testing labs

Sl. No.	Description of equipment	Quantity each no. (in Nos.)	Rate quoted per each		
			Rs.in figures (in words)		
			Basic price per each piece (including FOL/deliver/ Training/ commissioning)	Taxes	Total
	LAB EQUIPMENTS				
2.	HPLC(High performance liquid chromatography) – with UV Vis detector				
2	Analytical Balance (Option I)				
3	Analytical Balance (Option II)				
4	UV Spectrophotometer with Double beam				
5	Deep Freezer(-30 ⁰ degrees) with 200 L capacity (Horizontal)				
6	Rotary Vocuum Evaporator for FTIR				
7	Flash Point apparatus				
8	Electronic sieve shaker along with sieves calibrated by an NABL accredited agency.				
9	Fume hood Cupboard 5' (Sample issuing & opening of acid bottles)				
10	Vacuum Pump ½ HP 1440RPM 45 Ltrs Capacity (Oil free type)				
11	Computer with 4GB Ram and Laser Printer Duplex				
12	ELISA(Enzyme Immune Sorbent Assay) complete unit				
13	Flourescent Microscope with phase contrast attachment				
14	Software for chemito GLC – Irish – 32 with branded PC (specs for PC are as given				

	separately)				
15	branded 3KV UPS along with maintenance free batteries for 2 hrs. backup				
16	branded 5KV UPS along with maintenance free batteries for 2 hrs. Backup				
17	Analytical Balance of 5 digit with 220 gms along with printer				
18	Freezer of 400 lts with deep freezer capacity -30 ⁰ centigrade				
19	Canon Ir 2520 desktop with DADF & duplex by Canon Computer with printer specs are already laid down and the same may be procured – the brand name and models cannot be proposed for procurement.				
20	Suction Pump				
21	5 Digit Electronic Balance-NABL Certificate				
22	HPLC – UV Vis detector with auto sampler				

1. The basic rates quoted should be inclusive of all Taxes / Duties on FOL delivery to the concerned lab & inclusive of loading, unloading, training to concerned officials with machine operation etc. VAT shall be shown separately
2. The rates quoted in the Price quote should be firm and valid up to 31.03.2015. The APSAIDC Ltd. will not entertain any upward price revisions during the agreement period. The validity period can be extended on mutual consent of both the parties.
3. The rates and units shall not be over written. The rates and units shall always be in both figures and words.

Place :

Date

SIGNATURE OF OFFERER WITH SEAL

ANNEXURE - IV
DECLARATION ON Rs.100/- NON JUDICIAL STAMP PAPER

1. I/We have read and understood the terms and conditions of EOI schedule relevant to "EOI notice" dated: 15 -05-2017 and I/we have submitted the Annexures in accordance with the terms and conditions of above EOI schedule.
2. I/We shall not sell the products being quoted through this EOI schedule, at a lower price either to Government / Private parties in the State of Andhra Pradesh by way of giving any additional trade discount or incentives. If any such incident is noticed the A.P.S.A.I.D.C. Ltd. has the right to restrict all payments to such a lower rate apart from initiating penal action.
3. The information furnished in the Annexure-I is true and factual I clearly understand that our EOI schedule is liable for rejection, if any information furnished is found not true and factual, at any point of time.
4. The product/s offered by us is not copied or duplicated from any product design. In case the Corporation authorities find at any Time our products are an imitation or duplicate, we are bound for any legal action to be taken on us including blacklisting our firm.
5. I/We declare that I/we do not violate any patent/trade mark rights of any other manufacturer.

Place :
Date :

SIGNATURE OF THE OFFERER
WITH SEAL

DATA SHEET

Information to EOI applicant(s)

Clause Ref.	Description
1	<p>The name of the Client is :</p> <p>Vice Chairman & Managing Director APS Agro Industries Development Corporation Limited Admn Office: 55-17-2-2, to 4, 5th floor, Stalin Corporate building, Road No.2, Industrial estate, Autonagar, Vijayawada-520007, Fax:0866-2556804, ☎: 0866-2556803, Email:apagrosdmae@gmail.com, apagrogm@gmail.com</p>
2	<p>The Method of selection is :</p> <p>Quality-and Cost-Based Selection (QCBS)</p>
3	<p>The Edition of the Guidelines is :</p> <p>As furnished in the EOI schedule</p>
4	<p>EOI and Financial Schedules are requested Separately:</p> <p>Yes</p>
5	<p>Particulars of materials to be supplied:</p> <p>Supply and installation, commissioning, validation of pesticide lab equipment.</p>
6	<p>The addresses and Telephone numbers of client's Regional offices are</p>
1	<p>Regional Manager. APS AGRO IND. DEV. CORP. LTD. Thotapalem road, Opp. RTC Bus stand, Vizianagaram 531202, Andhra Pradesh, Phone No: 08922-224256. Mobile No. 9848232458</p>
2	<p>Regional Manager, APS AGRO IND. DEV. CORP. LTD. Pension office lane, Maidan grounds, Eluru 534 005, Andhra Pradesh, phone No. 08812-230731 Mobile: 9848232458</p>
3	<p>District Manager APS AGRO IND. DEV. CORP. LTD. Besides IMFL Godown, Nallapadu Guntur 522006, Andhra Pradesh Phone No.0863-2290299, Mobile: 9948099876</p>
4	<p>Regional Manager, APS AGRO IND. DEV. CORP. LTD. Vellore rd., Opp: Z.P. office Chittoor - 530 012. Andhra Pradesh. Phone No.08572-233721, Mobile: 9948076847</p>

5	District Manager, APS AGRO IND. DEV. CORP. LTD. R.S road,Yerramukkapalli,SBI ATM upstairs., Kadapa - 516001. Andhra Pradesh. Mobile: 9949775587
6	Regional Manager, APS AGRO IND. DEV. CORP. LTD. Industrial Estate, Bellary road, Anantapur- 515 001, Andhra Pradesh. Phone No.08554-270815, Mobile: 9948076847
7	The client will provide the following: Technical specifications of the pesticide lab equipment,.
8	The EOI submission address is: Vice Chairman & Managing Director APS Agro Industries Development Corporation Limited Admn Office: 55-17-2-2, to 4, 5 th floor, Stalin Corporate building, Road No.2, Industrial estate, Autonagar,Vijayawada-520007, Fax:0866-2556804, ☎: 0866-2556803, Email:apagrosdmae@gmail.com, apagrogm@gmail.com .
9	The information on the outer envelope should also include: EOI for Supply and installation, commissioning, validation of pesticide lab equipment. Validity of EOI shall be 90 days from the date of submission.