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## COLLEGE OF AGRICULTURE, MUL (MARODA) Distt. CHANDRAPUR

**Quotation Notice** 

No. CoAM/SS Lab/. 9.99. /2025

Date: 10/10/2025

Subject: Quotation for the purchase of analytical equipment's, machineries and other materials for the establishment of Soil Science laboratory at College of Agriculture, Mul

We intend to purchase of analytical equipment's, machineries and other materials for the establishment of Soil Science laboratory at College of Agriculture, Mul. Therefore, you are requested to forward your quotations (Purchase of analytical equipment's, machineries and other materials for the establishment of Soil Science laboratory at College of Agriculture, Mul) to reach this office on or before 28.10.2025 (Tuesday) up to 5.00 PM. as per details given as under

Sr. No.		Particulars	Quantity	Cost /Item including GST (Rs.)	Total Cost (Rs.)
1.	Microprocessor Ba	sed pH System Systronics Model:361	1	(233)	
	Specification				
	_	: 0 to 14.00 pH			
		: 0 to ± 1999mV			
	•	80% to 110%			
		0.01 pH ± mV in mV Mode			
	1 2	: 3½ Digit RED LED Seven Segment with			
	Automatic polarity Power	& decimal point. : 230V ± 10% 50 Hz, 10 VA			
2.		LLER Based CONDUCTIVITY METER	1		
2.	Systronics Model		1		
	Specification:	. 300			
	_	0.1µs to 100 mS (6 decadic ranges)			
		± 1% of the F.S. ± 1 digit.			
	Minimum Reso. :				
		7 digit, 7 segment LED			
	4 digit for conducti	vity 3 digit for temp.			
9	Cell constant : A	cceptable from 0.1 to 5 Power req.			
	230V, ± 10%, 50 H				
3.	1	MTER (VISISCAN) Systronics Model:	1		
	167				
	Technical Specific	cations			
	Wavelength	340 to 999 nm			
	Range	± 2.0nm			
	Accuracy Readout	1nm step			
	Band width	5.0nm			
	Photometric	3.0mm			
	Range	-0.04 to 2.5Abs			
	Accuracy	± 0.01 Abs at 1.0 Abs			
	Repeatability	± 0.005 Abs			
	Resolution	0.1 in %T mode,			
	1.000/acion	0.001 A in ABS mode			
	Digital readout	2 line 20 character LCD			
	Drift	± 0.003 Abs/hour at 340nm	11		

	Baseline Flatness	1.0.007		
	Stray Light	± 0.005 A		
1	Grating	Less than 0.3%T		
	Source	600 lines/mm		
	Detector	Tungsten-Halogen lamp Silicon Photodiode		
		o position manual sample changer or factory		
	installed single postlength cell.	ition holder for 20 mm//50mm (Max) path		
	Minimum volume	1 ml in 4 ml cuvette		
	Operating Modes	Single wavelength,		
		Multi wavelength (max 6)		
		• Scan		
		Concentration. (with factor and curve)		
		fitting)		
	Measuring modes	Absorbance		
		% Transmittance		
		Concentration (as above)		
	Data processing	Peak Pick (6 peaks in ABS value)		
		Spectrum printout (on Epson		
		compatible dot matrix printer)		
	Data Presentation	20 characters & 2 line alphanumeric LCD		
	Display	On printer (Graph and Data both		
	Hard Copy			
	Standard Accessories	i. Two 10mm glass cuvettes ii.		
	Accessories	Instruction manual iii. Printer		
	Power	port for DMP		
	10001	230v AC ± 10% 50Hz		
4	FLAME PHOTOME	TED "CYCEDONICS"		
	- MINIOTOME	LEK "SISIRUNICS" Model, 100		
	Range of Operation	TER "SYSTRONICS" Model: 128	1	
	Range of Operation		1	
	Range of Operation	c. Mode (Max) High conc. Mode (Max)	1	
	Elements Low cond Without	c. Mode (Max) High conc. Mode (Max) Dilution Without Dilution	1	
	Elements Low cond Without	c. Mode (Max) High conc. Mode (Max) Dilution Without Dilution opm. 100 ppm	1	
	Elements Low cond Without  Na 10 p  K 10 p	c. Mode (Max) High conc. Mode (Max) Dilution Without Dilution ppm. 100 ppm 100 ppm	1	
	Elements Low cond Without  Na 10 p  K 10 p  Li 2 p	Dilution  Dilution  Dipm.  100 ppm  100 ppm  100 ppm  50 ppm.  50 ppm	1	
	Elements Low cond Without  Na 10 p  K 10 p  Li 2 p	c. Mode (Max) Dilution Without Dilution ppm. 100 ppm ppm. 100 ppm 50 ppm 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p	Dilution  Diluti	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv	Dilution Dil	1	
	Kange of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp	Dilution Dil	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +	c. Mode (Max) High conc. Mode (Max) Dilution Without Dilution opm. 100 ppm opm. 50 ppm opm. 300 ppm opm 300 ppm opm Li:1 ppm Ca:3 ppm Mg: 3 ppm orovided for high concentrations mode.	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typic)	c. Mode (Max) High conc. Mode (Max) Dilution Without Dilution opm. 100 ppm opm. 50 ppm opm. 300 ppm opm 300 ppm opm Li:1 ppm Ca:3 ppm Mg: 3 ppm orovided for high concentrations mode.	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typics (Optional)	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typics (Optional)  Reproducibility: Lo	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typical (Optional)  Reproducibility: Log  Minimum sample:	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typics (Optional)  Reproducibility: Lo  Minimum sample: 1  Averaging: 2 to 15:	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typic (Optional)  Reproducibility: Lor  Minimum sample: 1  Averaging: 2 to 15: 1  Operating air pressure	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typical (Optional)  Reproducibility: Loe  Minimum sample: 1  Averaging: 2 to 15 se  Operating air pressults  Fuel gas: LPG	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typics (Optional)  Reproducibility: Lo  Minimum sample: 1  Averaging: 2 to 15 s  Operating air pressu  Fuel gas: LPG  Power supply: 230	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 100 ppm  Dipm. 300 pp	1	
5	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typical (Optional)  Reproducibility: Low  Minimum sample: Averaging: 2 to 15 services  Operating air pressure  Fuel gas: LPG  Power supply: 230 services  FILTRATION ASSEM	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
5	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typical (Optional)  Reproducibility: Low  Minimum sample: Averaging: 2 to 15 served of the complete Assembly No.	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 50 ppm  Dipm. 300 ppm	1	
5	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typics (Optional)  Reproducibility: Lo  Minimum sample: Averaging: 2 to 15 s  Operating air pressu  Fuel gas: LPG  Power supply: 230  FILTRATION ASSEM  Complete Assembly No  Filter Funnel PP with	Dilution Without Dilution  Dilution Without Dilution  Dipm. 100 ppm  Dipm. 100 ppm  Dipm. 300 pp		
5	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typical (Optional)  Reproducibility: Loe  Minimum sample: Averaging: 2 to 15 see  Operating air pressue  Fuel gas: LPG  Power supply: 230  FILTRATION ASSEM  Complete Assembly No  Filter Funnel PP with  Membrane Filter C.	Dilution Without Dilution Dilution Without Dilution Dipm. 100 ppm Dipm. 100 ppm Dipm. 300 ppm Dipm.		
5	Range of Operation  Elements Low cond  Without  Na 10 p  K 10 p  Li 2 pp  Ca 100 p  Mg 100 p  Miniumum Detectiv  Na: 2 ppm K: 1 pp  Curve fit software is p  Curve fit accuracy: +  Filters (10nm Typics (Optional)  Reproducibility: Lo  Minimum sample: Averaging: 2 to 15 s  Operating air pressu  Fuel gas: LPG  Power supply: 230  FILTRATION ASSEM  Complete Assembly No  Filter Funnel PP with	Dilution Without Dilution Dilution Without Dilution Dipm. 100 ppm Dipm. 100 ppm Dipm. 300 ppm Dipm.		

Vacuum pump diaphragm type-oil free			
<ul> <li>Air vent filter- Hydrophobic PTFE 50 mm/ 0.2 μm</li> </ul>			
<ul> <li>PTFE Syringe Filter 25mm /0.2 μm with needle</li> </ul>			
Flexible Silicon Tubing 1 mtr			
Plastic Tweezers (Forceps)			
radic recessor,			
6 Automatic Distillation System	01		-
Brand: KEL PLUS Model: CLASSIC DX	01		
• Fully Auto-run Completely Programmable Microprocessor			
based Distillation System with in-built software,			
• 100 predefinable User Storage Programmes.			
• Application: Total Nitrogen, Organic Nitrogen, Protein			
Determination, Available Nitrogen, Nitrate Nitrogen, Nitrite			
Nitrogen, Ammonical Nitrogen, Devarda Nitrogen			
Determination			
<ul> <li>Automatic Boric Acid Addition, Dilution, Alkali Addition,</li> </ul>			
Steam Processing, Automatic Residue Removal with delay			
time features, Process over indication with alarm, Micro			
brilliant distillate control, Titration Connectivity feature for			
future upgradation with complete automatic safety features.			
Two-line Alpha numeric Digital LCD Display,			
<ul> <li>Automatic built-in KMnO4 addition for determination of</li> </ul>			
available Nitrogen without pump & accessory module			
• The suction module of waste residue is door mounted for easy			
serviceability.			
• Enables Automatic monitoring and measuring of high			
temperature in distillate with sensor for auto warning signal			
and safety alarm to alert year to control distillate to warming signal			
and safety alarm to alert user to control distillate temperature.  Temperature displayed digitally.			
• Auto reagent Level Sensor with Alarm, Stainless steel non			
corrosive steam Generator, Automatic water level monitoring			
& Peristatic pump for reagents addition			
• Reagent tanks (2 litres) wall mounted for easy handling and			
user's visibility.			
• The control panel unit along with inbuilt temperature			
controller, timer, mother board and SMPS is isolated in			
separate control tower (not rack mounted internally) and			
housing to protect electronics from wet chemistry & acid/			
alkali process area for longevity and safety of all electronic			
components, with separate access door for main unit &			
electronics control tower unit.			
• Equipment incorporates transparent view window to watch			
the distillation process & splash head.			
Non Corrosive robust metallic condenser			
• With extra Sample Tubes.			
Glass Distillation Unit "Bhanu- Infusil" Make : ES?-2000			
DDQ-XL-BG	1		
Type: Double Distillation Unit with Auto Cut-Off Auto-Cut-Off: An Additional Processor To			
Auto-Cut-Off: An Additional Pressure Temperatures Switch			
(PTS) for safety of the boiler: The unit switches off if wat er			
Level in the boiler falls below the heater.			
Power (kW): 3.0 kW (1500W x 2 Silica Heater)			
Cooling Water Requirement Ltrs/Hr. (Approx.): 35 x 2-37 x			
2 mputs			
Output Ltrs/ Hr. : 2 Ltr/Hr.		1	1

	Conductivity µs/cm: 0.8-		
	1.0μS/cm <b>Power:</b> 220/240V,		
	20/60 HZ, Single Phase <b>Other</b>		
	Futures:		
	Futures: Silica Heater: Help in easy cleaning of the boiler. The scaling formed can easily be rinse and no damage is caused to the booter.		
	heater.		
	heater.  Screw Thread Connectors: All plumbing connections to the		
	equipment including that to the Silica Heater are made via		
	Screw thread connectors with 'O' ring, which helps in easy		
	installation and avoids the dailyer of glass		
	during assembly.  Powder Coated Stand: The Stand is powder coated for long		
	Powder Coated Stand: The Stand is powder		
	rust free operation.	1	
8	ROTARY SHAKER / ORBITAL SHAKER "Smita-	1	
"	Scientific"		
	The housing made of CRCA Steel - Powder Coat finished.		
	Linivarial Diatform made from S.S. 304 Grade to		
	accommodate interchangeable lotus clamps of assorted		
	sizes for different capacity of flasks.		
	Shaking Speed: 20 RPM to 200 RPM.		
	Shaking Stroke: 25 MM.		
	Operates on 230 Volts AC Single phase 50 Hz.		
	UNIVERSAL PLANTFORM CAPACITY		
	Citi Zita a Con M. O Fleels		
	325 x 325 250- Or 500-ML x 8 Flask  Electronic Digital Precision Balance "WENSAR":	1	
9	PGB1210		
	With Rechargeable Battery		
	Capacity : 1200gm		
	Readability : 0.01gm		
	Repeatability : 0.01gm		
	Pan Size : 120mm		
	Calibration : External Calibration		
	Display : LCD with white back light		
	Power : Adaptor using AC 220V/50Hz		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
10	Analytical Weighing Balance "WENSAR": KAB5L	1	
	Capacity : 220gm Readability : 0.0001gm		
	Repeatability: 0.0001gm Pan Size: 90mm		
	Pan Size : 90mm Calibration : Internal Calibration		
	Cansidation		
	Display : LCD Power : Adaptor using AC 220V/50Hz		
11	Hot Air Oven "Smita- Scientific"	01	
11	• Double wall construction with Inner chamber made of		
	Stainless Steel – 304 Grade		
	• Exterior of CRCA steel with powder coat finish.		
	Heating elements are made of high grade Nichrome wire		
	and placed at the bottom.		
	• Temperature Range: 5°C above ambient to 250°C		
	• Temperature Range. 5 C above ambient to 250 C • Temperature controlled by PID Dual Display Digital		
	Temp. Controller cum indicator		
	• with ± 2°C Accuracy.		
	• WILL I Z C Accuracy.		

	• Operates on 230 Volts AC Single phase 50 Hz.		 
2	WATER RATH - DECTANGIII AR DICITAL (A		
2	WATER BATH: RECTANGULAR- DIGITAL (Argon Welded)	01	
	Double walled with 100% leak proof argon welded		
	S.S. 304 grade& exterior of M.S. powder coat finish		
	• High density glass wool insulation in between the wall to minimize the heat loss.		
	Heating by 'U' type S.S. immersion heater.		
	Concentric rings to use flasks from 50ml to 500ml capacity.		
	• Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with PT-100 Sensor with +/- 1°C accuracy.		
	• Temp. Range: - 5°C Above ambient to 99°C.		
	• Operates on 230 Volts AC Single phase 50 Hz.		
	1 200 Votes the Shighe phase 50 Hz.		
3	Macro Kjeldahl Distillation "JSGW": 481	05	
	Comprising of 500 ml Kieldahl flask multiple adoptor		
	dropping lunner with plug, splash head, condenser and		
	receiver adapter, as per Quick fit. Along with its stand, holder and Rubber Cork.		
1	ATOMIC ABSORPTION SPECTROPHOTOMETER	01	
	(Systronic)	UI	
	Monochromator: Czerny-Turner type, focal lengths at 350mm		
	Wavelength range: 180-900 nm  Grating: Holographic diffraction with 1800 lines/mm		
	Reading mode: T, A, C		
	Photometric range: 0-125%, -0.1-3.00A		
	Sensitivity (Cu): approx. 0.9A at 5 ppm, RSD≤0.5%		
	Slits: Automated slit selection 0.1; 0.2; 0.7; 1.4; 2.0 nm Detector: Wide range UV sensitive photomultiplier tube		
	Lamp: Automated 4-lamp		
	Background Correction: Deuterium (D2) Background Correction		
	Burner: Titanium 100mm burner		
	Nebulizer : High efficiency glass nebulizer With Essential Accessories		
	Gas Controls : Programmable gas control features software-		
	controlled gas flows with automatic setting of gas flows for each		
	element Power supply: AC 220V/50HZ with exhaust assembly.		
_	•		
5	Agate Mortor & Pestle, Black Size: 100mm	01	
5	Sieve 2mm Made of Brass 20cm dia.	01	
7	Sieve 0.5mm Made of Brass 20cm dia.	01	
8	Bouyoucos Hydrometer	01	
2	Range: 5 to 60 gm / ltr, Temp: 68°F		
9	International Pipette assembly	01	
0	Desiccator Plain with knobbed lid, Ground Flanges	01	
	Neutral Glass, with Perforated Porcelain Plate. Size 210 MM Dia		
l			
	Aluminium Moisture Box (100 gm)	25	

**Refrigerator,** Samsung, 150 lit Capacity, 5 Star, Single Door

Please write on the envelope "Quotations for Purchase of analytical equipment's, machineries and other materials for the establishment of Soil Science laboratory at College of Agriculture, Mul.

## Note.

1. Rates should be for Chandrapur/ Gadchiroli/ Nagpur/Amravati/Akola inclusive of all taxes, insurance, packing and forwarding charges.

2. Quotation should be sent in the name of Associate Dean, College of Agriculture, Mul,

Dist-Chandrapur Pin Code- 441224.

3. If rates are approved you will have to supply the materials within eight days from the date of the supply order.

4. Your Quotation should reach the undersigned on or before the date 28.10.2025

5. Quotations received late will not be considered.

6. Payment will be done only after completion of work successfully

7. The rates quoted will have to be inclusive of all taxes with delivery at College of Agriculture, Mul.

8. All the rights to accept whole or part of the quotations or reject are reserved with the

undersigned without assigning reason.

Associate Dean College of Agriculture, Mul

Copy to: - Officer In-charge, ARIS cell, Dr. PDKV, Akola for information and to publish the same on University website.