



SKN COLLEGE OF AGRICULTURE

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Dr. M. R. Choudhary

DEAN & Faculty Chairman (Agri.)

No.F. ()/CS/SKNCOA/2025/2647

Date: 24/2/25

Corrigendum

In continuation of the office order no. F.()CS/SKNCOA/2025/2546 dated 14/02/2025, regarding e-tender of supply and Installation of laboratory equipment's please read following new specifications of listed equipment's as given under against the existing specifications.

Amended/Changed Specifications of Laboratory Equipment's			
Existing S. No.	Particulars	Existing Specifications	New Specification
1.	Stereo Zoom Binocular Microscope With Dual Light Stand With camera.	45° Inclined stereo zoom microscope with 360° movable binocular head and extension pillar base with continuous zooming objective 0.7x to 4.5x for binocular and 0.8x to 5x for trinocular zoom stereo microscope with 10x WF eye piece pair with Dual LED Lights. (Incident and transmitted). Total Magnification for :- Binocular: 7x to 45x. One pair of rubber eye guards, one dust cover Certification-ISO, GMP,CE	45° Inclined stereo zoom microscope with 360° movable binocular head and extension pillar base with continuous zooming objective 0.7x to 4.5x for binocular and 0.8x to 5x for trinocular zoom stereo microscope with 10x WF eye piece pair with Dual LED Lights. (Incident and transmitted). Total Magnification for :- Binocular: 7x to 45x. One pair of rubber eye guards, one dust cover Certification-ISO, GMP,CE USB Digital Camera 5.0 Megapixel Color CMOS sensor, Size 1/2", Pixel size 2.2x2.2 µm Resolution 2592x1944, High Image Transmission convenient to use any standard Microscope. Digital Camera can change image into Digital signal & send it to your P.C.
2.	Binocular slide Microscope With Dual Light Stand and photographic camera.	Extension Pillar base Fixed objective 2x with 10x WF eye piece pair 10x, 40x/16mm dia. Dual LED light Achromatic objective	Extension Pillar base Fixed objective 2x with 10x WF eye piece pair 10x, 40x/16mm dia. Dual LED light Achromatic objective

(Handwritten signatures and initials)

		<p>,4x,10x,20x,40x,100x Stereomicroscope system with a zoom ratio of 8:1 or higher The observation tube should be a trinocular eyepiece tube with camera port One pair of rubber eye guards, one dust cover Certification-ISO, GMP,CE</p>	<p>,4x,10x,20x,40x,100x Stereomicroscope system with a zoom ratio of 8:1 or higher The observation tube should be a trinocular eyepiece tube with camera port One pair of rubber eye guards, one dust cover Certification-ISO, GMP,CE USB Digital Camera 5.0 Megapixel Color CMOS sensor, Size 1/2", Pixel size 2.2x2.2 μm Resolution 2592x1944, High Image Transmission convenient to use any standard Microscope. Digital Camera can change image into Digital signal & send it to your P.C.</p>
3.	<p>Stereo Zoom Binocular Microscope With Dual Light Stand</p>	<p>Zoom Stereo Binocular Microscope Zoom Ratio 1:6.4 Duel light stand with focusing controls Viewing Head Inbuilt with stand Binocular tube 45 inclined IPD 54-75mm Eyepiece 360 degree rotatable wide field eyepiece WF 10x/20mm focusable paired with eye guards Continuous Zoom Radio: 0.7x : 4.5x Magnification: 7X-45X (10x eyepiece) Working distance: 95mm Focus: Focusing knobs on stand Built-in Illumination system: incident light LED 3.3W with intensity control, transmitted light LED 3.3W super bright glow screen low heat emission</p>	<p>Zoom Stereo Binocular Microscope Zoom Ratio 1:6.4 Duel light stand with focusing controls Viewing Head Inbuilt with stand Binocular tube 45 inclined IPD 54-75mm Eyepiece 360 degree rotatable wide field eyepiece WF 10x/20mm focusable paired with eye guards Continuous Zoom Radio: 0.7x : 4.5x Magnification: 7X-45X (10x eyepiece) Working distance: 95mm Focus: Focusing knobs on stand Built-in Illumination system: incident light LED 3.3W with intensity control, transmitted light LED 3.3W super bright glow screen low heat emission Stage Graduated double layer Mechanical rectangular stage, size 140 x 140mm with cross</p>

[Handwritten signatures and initials]

			travel 90mm (X) x 65mm (Y) on ball bearing with co-axial controls
8.	Semi Micro Balance	Capacity 200 gm/220 gm, Readability 0.01 mg, Repeatability 0.03 mg, Linearity (+/-) 0.1 mg, Pan Size 85Ø/3.3"Ø, Response Time 2-3 sec, Display Alpha, Numeric LCD Display, Calibration Perfect Auto Internal, Unit of Measure g, mg, ct, GN, mo, oz, , dwt etc., Tare Range Full, Operating Temperature 18 °C to 40 °C, Power Supply AC Adapter 230 V/115 V, 50/60 Hz, EMFC technology	Capacity: 60/200 gms Readability: 0.01/0.1 mg Accuracy: ± 0.01/0.1 mg Pan Diameter: 80 mm approx. Type of Display: Brilliant backlit display 5 digit. Calibration: Automatic calibration with internal weight as well as calibration with external weight. Class of Protection: IP-65 Operating Voltage: 230 Volts AC+/-10%, 50 Hz Balance should be supplied along with protective dust cover. The instrument should be supplied with all the accessories required for Installation & Commissioning. Spare AC Adapter 230 V required with the equipment. EMFC TECHNOLOGY
10.	Electronic weighing balance	Weighing Capacity: 220gm; Readability: 0.1mg; Repeatability: 0.1mg; Linearity: 0.2mg	Weighing Capacity: 220gm; Readability: 1mg; Repeatability: 1mg; Linearity: 0.2mg
12.	Bacteriological incubator	Temperature accuracy ±0.2°C @37°C, Temperature controller Dual display PID controller, Display SV & PV, Auto tuning feature, Temperature sensor PT100, Inner chamber SS 304, External cabinet Powder coated GI sheet, Insulation Glass wool, Door Insulated door, Mechanical latch / clamp, Glass window, Heaters Resistance wire heaters (Air Fin Heaters optional), Shelves SS wire mesh (removable)/ Shelves with holes for small instruments, Air circulation Motorized blower / Axial fan, Standard fittings Mains on/off switch, Load Indicator, Fan on/off	Temperature accuracy ±0.2°C @37°C, Temperature controller Dual display PID controller, Display SV & PV, Auto tuning feature, Temperature sensor PT100, Inner chamber SS 304, External cabinet Powder coated GI sheet, Insulation Glass wool, Door Insulated door, Mechanical latch / clamp, Glass window, Heaters Resistance wire heaters (Air Fin Heaters optional), Shelves SS wire mesh (removable)/ Shelves with holes for

		switch, Power supply 220 Volts 50Hz.	small instruments, Air circulation Motorized blower / Axial fan, Standard fittings Mains on/off switch, Load Indicator, Fan on/off switch, Power supply 220 Volts 50Hz. CAPACITY : 14X14X14 INCH
13.	Insect collection box	The standard one is 45x30x6.5 cm ,LWH	Bottom: 8mm EVA Sheet Top: Glass Size: 45x30x7.5 cm ,LWH Outer Frame Material: Teakwood
16.	Knapsack sprayer	Battery operated	Battery operated knapsack sprayer machine isi certified 16 ltr. Chemical tank capacity maintenance free powerful battery 12v/8ah 80 psi mini diaphragm pump three stage reliable & durable charger telescopic (expandable) s.s. lance trigger type, leak proof auto cut-off device multi hole nozzle Battery works for spraying approximately 350-400 litres of solution when fully charged
17.	Soil & Plant Sample grinder Machine	Grinder cover and body from alloy steel casting 160 mm Grinder Room, Grinding with a dynamic balanced 3-group hammer rotor made of special alloy steel, Strong grinding of hammers with a moving balance to the center, Efficient grinding with grinder loading bunker on stator steep cover, The user is protected with installation bunker cover, Prevents dust with a direct-contact rotor to the motor and extends engine life 20*40 mm (+-5 mm) grinding bunker feed input ensures the appropriate samples, On demand, digital production, Efficient grinding with 1.1 kw, 3000 d/d	Non Digital Grinder cover and body from alloy steel casting 160 mm Grinder Room, Grinding with a dynamic balanced 3-group hammer rotor made of special alloy steel, Strong grinding of hammers with a moving balance to the center, Efficient grinding with grinder loading bunker on stator steep cover, The user is protected with installation bunker cover, Prevents dust with a direct-contact rotor to the motor and extends engine

		engine 220volts-50hz.	life 20*40 mm (+5 mm) grinding bunker feed input ensures the appropriate samples, On demand, digital production, Efficient grinding with 1.1 kw, 3000 d/d engine 220volts-50hz.
27.	Micro Kjeldahl N Digestion & Distillation Apparatus	<p>Analyser Fully Automated Kjeldahl Analyzer</p> <p>Parameters: Analysis of Nitrogen, protein, ammonia.</p> <p>Autosampler capacity: Autosampler 60, 3 racks with 20 Kjeldahl tubes 250 ml or 400 ml</p> <p>Storage capacity: 200 batches in the instrument software.</p> <p>Analysis time: 3.5 minutes at 30 mg N (6.5 minutes at 200 mg N)</p> <p>Distillation capacity: ~ 40 ml/min</p> <p>Measuring range: 0.1 - 210 mg N</p> <p>Reproducibility: 1% RSD (including the digestion step)</p> <p>Recovery: > 99.5% at nitrogen levels between 1 - 200 mg N</p> <p>Tube draining: 200 ml in less than 10 seconds</p> <p>Burette volume: 35 ml</p> <p>Burette resolution: 1.2 µl/step</p> <p>Delay: 0 - 1800 seconds</p> <p>SAfE (FOSS pioneered): Auto 5 seconds</p>	<p>Automatic Nitrogen/Protein Estimation System</p> <p>A. Automatic Macro Block Digestion System</p> <ul style="list-style-type: none"> • Four Place 250 ml capacity Block Digestion System. • Aluminium Block with Casted Aluminium Alloy Heaters, • Temperature Controller should be isolated separately in a control tower to protect electronics from digestion heat zone and acid reaction zone, with separate access door for electronics control tower unit. • Inbuilt add-on safety standby PID Controller for Heater & block protection apart from main microprocessor controller. • Temperature Control Range Room Temperature to 500° C with safety cut off at 470°C (As per Kjeldhal chemistry effective digestion takes place 380°C - 420°C), Temperature Accuracy : ± 0.5 ° C • Digital display, Integrated auto-sequencing time/temperature domain of 2 programs and 8 sequencing steps, • Auto over temperature protection, Auto Sensor break protection, Auto

Error Indication,

- All essential accessories like Digestion Tubes, SS Insert Rack, Exhaust Manifold,

- Suction Assembly wall mounted on rear side of unit for safe removal of acid fumes & easy access to drain area

B. Automatic Distillation System

- Partially Automatic Microprocessor based Distillation System

- Alkali Addition - Auto Mode Programmable - 5-35 ml, Manual Addition - Continuous,

- Built in fully automatic safety features for user protection with auto error diagnosis facility

- Stainless steel non corrosive steam Generator,

- The control panel unit along with inbuilt temperature controller, timer, mother board and SMPS should be 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 condensor.

- Electrical Requirement - 220 - 230V/50Hz.

- The OEM should be reputed with atleast 100 users in Rajasthan state.


- The instrument shall


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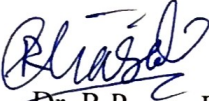
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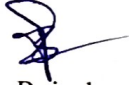
			<p>strictly confirm to the specifications with relevant brochure & Photograph with images.</p> <ul style="list-style-type: none"> • The OEM should have proof of at least 25 installations of long term users using equipments for more than a period of 10 -15 years showing longevity of operations • The bidders / OEM must show online demonstration of the quoted system during technical evaluation of the bids. This is an essential requirement • The instrument should be approved registered brand, Certificates issued by Trade Mark Registry under Trade Marks Act 1999 (Govt. of India) • The OEM should have atleast Rs.5 Crore average Turnover in last three financial years
55.	Oostenbrink elutriator	<p>Water supply: 13mm hose nozzle (Water tap with hose nozzle on site), Water inlet: 2 flow meter 0-250 l/h (2 membrane adjusting valves, Body: Plexiglass, Stand: PVC (Stainless steel), Dimensions: 450mm×450mm D × 1100mmH</p>	<p>Use: device used to extract nematodes from soil samples Size/ Dimensions: 450 mm wide, 450 mm deep, and 1100 mm high Sieve: 1 mm mesh width Water supply: 13 mm hose nozzle (Water tap with hose nozzle on site) Water flow: 40 l/h spraying nozzle and 60 l/h perforated ring chamber Water inlet: 2 flow meter 0-250 l/h (2 membrane adjusting valves, Body: Plexiglass, Stand: PVC (Stainless steel) Cleaning: Shower head and bottom valve Standard equipment: 2.5 m connection hose with water filter and hose</p>

			clamp, 1 stainless steel rinsing sieve, and holding devices for laboratory sieves <ul style="list-style-type: none"> • Laboratory sieves Ø200, mesh width 160 - 450 µm wall mount kit. • Capacity: capable of extracting soil samples of 100 to 250 ml volume.
58.	Spectrophotometer Cuvette	Shape: Rectangular Capacity: 3.5 MI Temperature: 35 °C Material: Plastic	Quartz cuvette Shape: Rectangular Capacity: 3.5 MI Temperature: 35 °C Material: Plastic


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Dr. R.P.
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