



BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

COLLEGE OF AGRICULTURE, SUSUNIA
CHHATNA, BANKURA, WEST BENGAL.

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Ref. No.COAS/T-7/23

Date:01.03.2023

Tender ID: 2023_BCKV_484826_1 **E-Tender**

The Principal Investigator project entitle "Development of Soil, Plant and Water Testing Laboratory for Sustaining Soil Health and Agricultural Productivity in the Red & Laterite Zone of West Bengal" **College of Agriculture, Susunia, Chhatna, Bankura(Extended campus of BCKV)**are invited online quotations from the bona fide suppliers/ vendors for supplying the different Instruments as per pacifications stated below within **fifteen (15)days of publication**. Please mention terms & condition clearly against each item, if any, for supplying the Instruments.

i) Price: The price of instruments including the imported ones should be quoted in each unit (including taxes and duties etc). However,quoted rates must be for destination including packing, insurance and delivery charges up to **College of Agriculture, Susunia, Chhatna, Bankura(Extended campus of BCKV)**West Bengal with satisfactory of good condition.

ii) EMD: Vendors are required to pay the Demand draft amounting Rs. 10000/-(Rupees ten thousand) only (**xerox copy**) as specified along with their quotations. Without EMD quotations will not be considered for technical comparison. Demand Draft must be in favour of "**Bidhan Chandra Krishi Viswavidyalaya**" payable at Kalyani (IFSC: SBIN0001082). Supporting document regarding exemption of demand draft must be submitted.

iii) Supporting Documents:

- Bid papers should accompany authorization certificate from original manufacturer, trade license, GST registration etc.
- Photocopy (Self attested) of the original supporting document in favour of the specification – claim for each item must have to be submitted separately.
- User list along with certificate from reputed users also need to be submitted.

Price bid of the vendors will be compared only if technical specificity as appended against each item is fulfilled. The Viswavidyalaya reserves the right to accept or reject any tender without showing reason.

N.B : Please read the carefully terms and conditions of items.

Chairman, CTC, BCKV


Principal Investigator
"Development of a soil, plant and
water testing laboratory....Red and
laterite zone of West Bengal"-RKV
(RAFTAAR), COA, Susunia, BCKV
Bankura, West Bengal

for upload the tender
in BCKV website
07/03/23

No.	Name of Instruments	Specification																														
1	Centrifuge	<p>Automatic rotor detection, check of presence of accessories and compatibility with maximum speed Safety speed limiter function 10 storable programs with protection function Setting of speed in RPM and RCF Controlled by microprocessor and backlit color LCD display with contemporary visualization of all parameters Digital adjustment of acceleration and deceleration levels Stainless steel internal bowl with optimal height for loading and unloading of samples Imbalance detection system with automatic functioning stop to avoid accidents Automatic locking system of the lid Safety opening of the lid in case of absence of electric power Brushless motor maintenance free and no carbon deposits Construction in accordance with European directives</p> <p style="text-align: center;">Technical Data</p> <table border="1" data-bbox="544 593 1534 1108"> <tr> <td>Maximum capacity</td> <td>6x50 ml (fixed angel)</td> </tr> <tr> <td>Maximum speed</td> <td>16000 rpm (fixed angel)</td> </tr> <tr> <td>Setting RPM</td> <td>Yes</td> </tr> <tr> <td>Setting RCF</td> <td>Yes</td> </tr> <tr> <td>Display RCF</td> <td>Yes</td> </tr> <tr> <td>Timer</td> <td>00:30 to 99:50 (mm:ss) and continuous mode</td> </tr> <tr> <td>Date and Time</td> <td>Yes</td> </tr> <tr> <td>Acceleration levels</td> <td>0-9 (0 = min – 9 = max)</td> </tr> <tr> <td>Deceleration levels</td> <td>0-9 (0 = min – 9 = max)</td> </tr> <tr> <td>Spin function</td> <td>Yes</td> </tr> <tr> <td>Programs</td> <td>10 programs with protection function</td> </tr> <tr> <td>Indication of rotor</td> <td>Yes</td> </tr> <tr> <td>Noise</td> <td>< 55 dB</td> </tr> <tr> <td>Directive / Standard</td> <td>IEC 61010-1</td> </tr> <tr> <td>External dimensions WxDxH/Weight</td> <td>450x590x330 mm / 40 kg</td> </tr> </table> <p>Complies with the requirements applicable to Directive No. 98/79/EC, ISO 9001:2015</p>	Maximum capacity	6x50 ml (fixed angel)	Maximum speed	16000 rpm (fixed angel)	Setting RPM	Yes	Setting RCF	Yes	Display RCF	Yes	Timer	00:30 to 99:50 (mm:ss) and continuous mode	Date and Time	Yes	Acceleration levels	0-9 (0 = min – 9 = max)	Deceleration levels	0-9 (0 = min – 9 = max)	Spin function	Yes	Programs	10 programs with protection function	Indication of rotor	Yes	Noise	< 55 dB	Directive / Standard	IEC 61010-1	External dimensions WxDxH/Weight	450x590x330 mm / 40 kg
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2	Compound phase Contrast Binocular Microscope	<p>OPTICAL SYSTEM: Infinity corrected plan optics with Uniformly centered, interchangeable & parfocal , Tropicalized anti fungus treatment ensures image excellence for long periods in conditions favouring to fungus growth. OBJECTIVES: Plan Infinite Achromat 4X, 10X, 40X, 100X EYEPIECES: WH 10x (FN 20mm) paired eyepiece with eyeguards . The unique optical design provides relief from eye fatigue and renders wide-field images of utmost clarity. Compatible with optionally available eyepiece micrometer DIOPTRIC CORRECTION: Dioptic adjustment available on the left eyepiece tube OBSERVATION HEAD: Binocular head (30 degree inclined seidentopf), 360 degree rotatable, diopter & eyepoint adjustment with two working heights at minimum 370 & 430mm. Interpupillary distance 48-75mm Facility of locking mechanism to prevent observation tube from falling off" Trinocular head (30 degree inclined seidentopf), 360 degree rotatable, diopter & eyepoint adjustment with two working heights at minimum 370 & 430mm. Interpupillary distance 48-75mm. Facility of locking mechanism to prevent observation tube from falling off Monocular Head (30 degree inclined), 360 degree rotatable. Facility of locking mechanism to prevent observation tube from falling off POWER SUPPLY: (a) Built-in illumination base with pre-centered 6V 20W halogen light source coupled with an efficient collector lens system. Universal power supply 100V-240V AC 50/60Hz single phase (b) 3W LED light soure high brightness, longlife (30,000hrs) (c) LED light soure (with battery back-up) high brightness, longlife (30,000hrs). Battery back-up in-built NiMH rechargeable batteries" NOSE PIECE: Quadruple revolving inward nosepiece based on precision ball-bearing mechanism with positive click stop. Optional Quintupule nosepiece also available BODY: Aluminium die- cast body with all critical movements based on ball bearing and wire guides thereby ensuring smooth and precise manipulation</p>																														

Susanta

		<p>MECHANICAL STAGE: Co-axial low drive mechanical stage 125 mm x 145 mm with traverse area of 76 mm x 50 mm with dual slide holder</p> <p>FOCUSING SYSTEM: Co-axial coarse and fine controls with a focus adjustment and fine adjustment knobs. Coarse focus range 20mm. Fine focus rotation 0.2mm</p> <p>CONDENSER HOLDER: Rack and pinion mounted condenser holder</p> <p>CONDENSER:Centerable abbe condenser with aperture iris diaphragm (N.A. 1.25) focusable with rack & opinion and a continuously variable iris diaphragm with a removable blue filter for day light observation</p> <p>ACCESSORIES:(a) Phase Contrast attachment, (b) digital camera</p> <p>5MPMAGNIFICATION RANGE :40x ~ 1000x for observation</p> <p>LED LIFE:30,000 hrs</p>
3	Electronic Precision Balance	High precision balance, electromagnetic force compensation, touch screen display, percentage weighing, multiple weighing units, density determination function, rs485,usb interface, counting weighing mode, underhook weighing, calibration with internal weight timedate, capacity-220g, readability-0.01mg
4	Multimeter with Ion selective electrodes for water quality testing	<p>Colour Capacitive touch screen with software control facility.</p> <p>Can store 2000 sets of test data, which can be saved and transferred to USB memory stick and opened with Excel.</p> <p>Power: Universal AC adapter and with Rechargeable Lithium Battery (Included).</p> <p>Concentration Range: (0~19990), Can Switch 6 kind of Concentration units: ug/l, mg/L, g/L, mol/L, mmol/L, ppm.</p> <p>Concentration Resolution: 4 significant digits (expressed in scientific notation)</p> <p>Can be operated through 5 Amp plug and Battery.</p> <p>Accuracy: ±0.1mv or 0.03%</p> <p>Temp range: (0□ to 100□) Accuracy: ±0.1□</p> <p>Output Through USB/Bluetooth</p> <p>Battery life 1000 Hour. Type: Lithium battery.</p> <p>ISE- Fluoride, Chloride , Bromide, Ammonia,</p> <p>Brand name and model name must come in the display.</p>
5	Microtomy	<p>Vertical Stroke 70 mm</p> <p>Nominal Voltage 220V,50Hz/110V,60Hz</p> <p>Fine Thickness Range 0.5 um-100 um</p> <p>PackingType Box</p> <p>Retraction Adjustable or 5-100 um Max</p> <p>Specimen Size 50x50 mm</p> <p>Operation Semi-automatic</p> <p>Minimum Setting Value 0.5um</p> <p>Horizontal Object Feed 28 mm Feed Motion Via Stepper Motor</p> <p>Specimen Orientation Universal 8 Degree and Y Axis</p> <p>Specimen Orientation Z Upto 360 Degree Axis</p> <p>Sectioning Speed Adjustable or 300um/s & 900 um/s</p>
6	pH Meter	<ul style="list-style-type: none"> • Microprocessor based bench pH meter with 3 point automatic calibration and 0.01 pH accuracy - IP 54 rated splash proof keypad - Range 0.00 to 14.00 pH • Up to 3-point push button calibration ;USA,NIST selectable • Custom dual line LCD display • Included general purpose glass pH combination electrode , BNC connector, 1m cable length - Auto buffer recognition minimizes calibration errors • Self diagnostic messages - pH slope and offset display • Temperature range 0 to 100°C • Temperature Compensation Automatic (optional) / Manual (0 to 100°C) • Must be CE certified and tested according to Electromagnetic compatibility Directives - Power requirements AC/DC 9V Adapter (220 VAC, 500 mA) • Inputs BNC, phono jack - Electrode Stand included

Suranda