

BIDHAN CHANDRA KRISHI VISWAVIDYALAYA

Regional Research Station (Red & Laterite Zone)

P.O. Jhargram, Dist. West Bengal, Pin. – 721507

Prof. (Dr.) Chandan Bhattacharya

PI, RKVY Project, RRS, Jhargram



Mob.- 9474716406

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Notice Inviting E-Tender

The Principal Investigator, RKVY project “Infrastructural support for establishment of laboratory for testing soil and water quality” (Project Code: SCH12068) at RRS, BCKV, Jhargram, West Bengal is inviting **e-tender** from competent and bonafide vendors/parties/distributors/dealers/agents/manufacturers having registration of GST for supply of following items to the RRS, BCKV, Jhargram within **9th March, 2018** as per specifications appended below.

i) Preparation of bids: The tender should be submitted under two bid system (i.e. technical and financial bid) with validity for a period of 6 (Six) months.

ii) Submission of e-tender: The tender shall be submitted online within **9th March, 2018**. Technical quotations may also be uploaded through online.

iii) Opening of the e-tender: The technical bid will be opened by the Central Purchase Committee, BCKV, duly consigned for this purpose and PI & CoPIs will evaluate the technical bids. After evaluating/scrutinizing, the financial offer/bid of technically qualified vendors' will be opened.

iv) Price: The price of all the equipments and items, including the imported ones, should be quoted in net per unit (including taxes and duties, etc). However, university will provide valid DSIR and authorization certificate to the clearing agent, if required. Quotation must include essential accessories (as mentioned for each equipment) from branded company, in Indian currency only, even if the main equipment is quoted in foreign currency. Without essential accessories tender will be considered as incomplete. Quoted rates must be FOR DESTINATION (including packing, insurance and delivery charges up to laboratory at RRS, BCKV, Jhargram, West Bengal) with satisfactory installation and demonstration.

v) EMD: Vendors are required to pay the requisite amount of Rs.5000 (Rupees five thousand) only as EMD in demand draft. Scanned copy of the requisite draft must be uploaded as supporting document during submission of e-tender. Without EMD quotations will not be considered for technical or financial comparison. Draft must be in favour of “Bidhan Chandra Krishi Viswavidyalaya” payable at Kalyani (IFSC: SBIN0001082). **EMD exemption certificate (if any) must be uploaded.**

vi) Supporting document

a) Bid papers should accompany authorization certificate

from original manufacturer, trade license, GST registration,

etc.

- b) Scanned copy (self-attested) of the original supporting document in favour of the specification–claim for each item must have to be uploaded separately.
- c) User list along with certificate from reputed users also need to be uploaded for each item.
- d) Scanned copy of supporting document to assured after sale service in Eastern India and availability of spare parts need to be uploaded.
- e) 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.

Prof. (Dr.) Chandan Bhattacharya

PI, RKVY Project, RRS, Jhargram

Mobile: +919474716406

e-mail: bhattacharya.c.bckv@gmail.com

List with specifications of the instruments for the soil testing laboratory at RRS, B.C.K.V., Jhargram

SI No	Name of the Item/ Equipment:Instrument	Detail Specification	Qty
1	Rotospin - Rotary Mixer	Rotospin - Rotary Mixer RPM 5-50 RPM , Timer 0-99 hrs/1-59 min, Bar for 20 X 15 ml tube Bar for 12 X 50 ml tube Plastic coated spring clips, Serial rotation of tubes for extraction ,diffusion	1(One)
2	GPS	Hand held GPS with 9 channel receiver	1(One)
3	Desiccators with vacuum pump	Desiccators (Vacuum) Polycarbonate Top and Chemical Resistant Polypropylene bottom; Silicon 'O' ring to make the desiccators airtight; Holds vacuum of 740 mm of Hg (29") for a period of 24 hours; Fitted with stopcock made of poly-propylene,Oil-free	1(One)
4	Magnetic stirrer	Polished stainless steel Dimension of heating plate- Electronic speed and time control, Acid & Alkali resistant glass ceramic top, Easy to clean & Maintain, Rugged Aluminium die cast housing, Reflective bright white colour enhances solution visibility. Three display windows for : Temperature, RPM and Time, Speed Range : 50-1500 RPM, Maximum stirring bar length : 80mm, Heat output : 450 W, Temperature range : ambient -350°c, Adjustable safety cut off : 50-400°c, Control accuracy of PT100 : ± 1k , Dimensions of hot plate body : 273x160x102mm	1(One)
5	Centrifuge	Rotor type: Angular Stepless speed regulator with zero start interlock Digital speed indicator Dynamic brake 0-99 minutes digital countdown timer Imbalance detector with cutoff Safety lid interlock to prevent cover opening during centrifugation Max Speed 17,000 rpm Maximum RCF 21,200 x g	One (1)

		<p>Timer 0.5 to 99 minutes</p> <p>Dimensions (WxDxH; mm): 400 x 500 x 455</p> <p>Electrical: 230V~, 50Hz</p> <p>Quote centrifuge machine (without rotor head) and rotor head (only) separately</p> <p>Rotor Capacity: 6 x 200ml, 8 x 100ml, 12 x 50ml (ONE EACH TYPE ROTOR to be quoted separately)</p>	
6	Fume chamber	<p>(DUCTED with Stand and Blower Module)</p> <p>Size: 4'x2'x2'</p> <p>For digestion of different types of sample for analysis, including soil, water, wastewater, food products, plant tissue, feed stuffs, oil, coal, organic & mineral samples for analysis of metals and nonmetals in solid and liquid samples.</p> <p>Fume Chamber must withstand tri-acid fume constantly</p> <p>Should be corrosion resistant, plastic and polyurethane painted metal</p> <p>Non-Dissipative PVC w/ Polypropylene Work-surface</p> <p>6" OD duct Port</p> <p>Fan system module, Adjustable Speed, 480 CFM impeller</p> <p>Swing Vane Manometer- Air Velocity Meter</p> <p>Airflow Alarm Monitor</p> <p>Stand 35"Height, epoxy Powder Coated Steel with Caster</p>	1(One)
7	Multifunction printer	<p>PRINT</p> <p>Printing Method: Monochrome Laser Beam Printing</p> <p>Print Speed (Simplex; A4/LTR): Up to 27 ppm (pages per minute)</p> <p>Print Resolution: 600 x 600dpi</p> <p>Print Quality with Image Refinement Technology: 1200 (equivalent) x 1200dpi</p> <p>Available Paper Size for Auto Duplex Print: A4, Letter, Legal, Officio , B-Officio, M-Officio, Indian Legal, Foolscap</p> <p>COPY</p> <p>Copy Speed (Simplex; A4/LTR): Up to 27cpm (copies per minute)</p>	1(One)

		<p>Copy Resolution: 600 x 600dpi</p> <p>First Copy Time (FCOT): Approx. 9.0 secs (A4/LTR)</p> <p>Maximum Number of Copies: Up to 99 copies</p> <p>SCAN</p> <p>Scan Resolution: Optical: Up to 600 x 600dpi</p> <p>Driver Enhanced: Up to 9600 x 9600dpi</p> <p>Color Depth: 24-bit</p> <p>Pull Scan: Yes, USB</p>	
8	Bottle top dispenser	<p>Volume Range (ml) 10.0 – 100.0</p> <p>Increment (ml) 2</p> <p>Accuracy \pm % 0.5 \pmml 0.5</p> <p>CV \pm % 0.1 \pmml 0.1</p>	1(One)
9	Laboratory Stirrers	<p>PMDC motor for powerful stirring</p> <p>Chuck for easy interchangeability of shaft</p> <p>Reliable performance even in continuous use</p> <p>Stirring shaft SS 316; Retort Rods SS 304</p> <p>Stepless electronic speed regulator with digital display</p> <p>Stirring Shaft: 6 x 250 mm</p> <p>Impeller: PITCHED FAN</p> <p>Motor: AC/DC 1/20 HP</p> <p>Speed (rpm): Min 800 and Max 4000</p> <p>Stirring Capacity: Max 7 Ltrs</p>	1(One)
10	Desktop Computer	<p>Desktop PC</p> <p>Intel Core i3, RAM-4GB, Keyboard, Hard disk –1 TB,</p> <p>Ethernet – 10/100/1000, DOS, 19.5” LED Monitor, CD/DVD Writer</p> <p>Keyboard, wireless mouse; Quick heal Antivirus (three years validity): UPS: APC 600VA</p>	1(One)
11	Temperature controlled	<p>Temperature range: +5 deg to 50°C</p>	1(One)

	<p>Shaker (Bench Top Orbital)</p>	<p>Temperature accuracy: +/- 0.1°C Shaking Speed Range: 20 – 300 rpm Timer: 30 min --99 Hr 59 min Microprocessor based PID control/ Auto tuning / Calibration Over temperature limiter / Door opening alarm Digital LED display for temperature (0.1 Deg Resolution) Speed, and shaking motion Adjustable fan speeds. Brush less DC motor High velocity fan for rapid thermal recovery and uniformity Platform size 280 x 330 mm (No. of flasks x Volume): 9x250ml, 13x125ml, 30x50ml Load in Tray ≤ 10 Kg Safety features: Self protecting cut off indication System should have logical safety feature Time setting function for automated run/off Door opening alarm Electrical requirements: 230 V, 50/60 Hz. Accessories: Platform for shaker Spring wire Rack Rubber mat and sticky pad. Warranty. 2 Years.</p>	
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