



## Bidhan Chandra Krishi Viswavidyalaya

AICRP on Medicinal and Aromatic Plants & Betelvine

Directorate of Research, Kalyani- 741 235 Dist: Nadia, West Bengal

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Ref. No.: RKVY-MAP-08(2) /17-18

Date: 21.02. 2018

**Ref. e-Tender ID: 2018\_BCKV\_157883\_1**

Principal Investigator of **for RKVY project** on “Promotion of Medicinal and Aromatic Plants through Cultivation and Entrepreneurship Development in West Bengal” is inviting e-tender from competent and bonafide vendors/ parties/ distributors/ dealers/ agents/ manufacturers having registration of GST for supply of equipment to University as per specifications appended below **within 09.03.2018**.

(i) Preparation of Bids: - The tenders should be submitted in two-bid system (i.e. Technical bid and Financial bid) with validity of **2 months**.

(ii) Submission of e-tender: - The tender shall be submitted on line **within 09.03.2018**.

(iii) Opening of the tender: - The technical bid will be opened by the Central Purchase Committee, BCKV duly constituted for this purpose. PI & CoPIs are entrusted to evaluate the technical bids. After scrutinizing, the financial offer/bid of technically qualified vendors will be opened.

(iv) Prices: - The prices of items should be quoted in net per unit (including all taxes and duties, etc.). However, University will provide valid DSIR. Quotation must include all essential accessories (as mentioned for each item). Without essential accessories tender will be considered as incomplete. Quoted price must be inclusive of installation, extended warranty of two years beyond standard manufacturers’ warranty. Quoted rates must be FOR DESTINATION (including packing, insurance and delivery charges up to the laboratory at BCKV, Kalyani, Nadia, West Bengal) with satisfactory installation and demonstration.

(v) EMD: - Vendors are required to pay the requisite amount of Rs.6000/- (Rupees Six thousand) only as EMD in draft. Scanned copy of the requisite draft must be uploaded as the supporting document for each item 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 during e-tendering. However, bidders are requested not to send the original DRAFT during tendering process.

(vi) Supporting documents:-

(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) Scanned copy of supporting document of assured after sales services in Eastern India and availability of spare parts need to be uploaded.

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

Item/Equipment	Qty.	Details of Specifications
<b>1. Automatic Nitrogen/ Protein Estimation System</b>	<b>1 (One )</b>	<p><b>A. <u>Automatic Macro Block Digestion System:</u></b></p> <ul style="list-style-type: none"> <li>• Twenty Place 250 ml capacity PC Compatible Block Digestion System with Casted Aluminium Alloy Heaters</li> <li>• Direct USB Port for PC/Laptop Connectivity, Bright Digital Two Line LCD Display.</li> <li>• 30 programs &amp; 12 sequence steps, PC chart software, live graphical representation of time/temp. gradient</li> <li>• Live Schematic process flow feature with display of various stages with facility to have print options</li> <li>• Software enables multiple unit monitoring with multi user login feature</li> <li>• Inbuilt software program for micronutrient, macro nutrient, trace element, diacid and triacid analysis.</li> </ul> <p><b>B. <u>Scrubber System:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Four Stage Fully Automatic Microprocessor based acid neutralization scrubber</b> with digital display integrated online with motherboard of digestion system with inbuilt pump for water recirculation</li> <li>• Auto start &amp; Stop, Auto waste disposal &amp; auto drain of tank water</li> <li>• Inbuilt auto error diagnostic and safety features. Electrical Requirement: 230v/50Hz AC Mains.</li> </ul> <p><b>C. <u>Automatic Distillation System:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Autosequencing Microprocessor based PC Compatible Distillation System</b> with in-built software with 50 Predefinable User Storage Auto Sequence Programmes</li> <li>• Automatic sequencing with auto Intelligent run of programmable steps which include Automatic Boric Acid addition, Automatic Dilution, Automatic Alkali Addition, Automatic Steam injection, Automatic Residue Removal, Process over indication with alarm with delay time features, Automatic Titration Connectivity feature for future upgradation,</li> <li>• Microbrilliant distillate control with adjustable sensor,</li> <li>• Two line Alpha numeric Digital LCD Display,</li> <li>• Continuously measured temperature is displayed digitally.</li> <li>• Auto door open warning indication, Auto tube insert error indication. Auto deactivation of System on error diagnosis, Adjustable steam power, Auto online water saving mechanism, Auto reagent Level Sensor with Alarm for Reagents, Stainless steel non corrosive steam Generator</li> <li>• Automatic water level monitoring &amp; Peristaltic pump for reagents addition</li> <li>• Electrical Requirement - 220 - 230V/50Hz.</li> </ul>
<b>2. Automatic PC Compatible Solvent Extraction</b>	<b>1 (One )</b>	<p><b><u>Automatic PC Compatible Solvent Extraction System</u></b></p> <ul style="list-style-type: none"> <li>• Fully Automatic Programmable Four Place Auto sequencing PC Compatible Solvent Extraction System</li> </ul>

<b>System</b>	<ul style="list-style-type: none"><li>• Casted Aluminium Alloy Heaters for uniform heating,</li><li>• Independent loading of sample with individual mechanical controls,</li><li>• TFT Graphic Touch Screen Display.</li><li>• Auto Phase changeover of 5 stage extraction includes boiling, Condensation, rinsing, solvent recovery and Predrying steps.</li><li>• PC software performs Live graphical representation of time / temperature gradient,</li><li>• Live process view display of various stages with facility to have print options,</li><li>• Software enables multiple unit monitoring with multi user login feature,</li><li>• Inbuilt Airpump with SS Manifold for pre drying and solvent cloud evaporation, Automatic collection of recovered Solvent with optical sensor to prevent overflowing of solvent.</li><li>• Versatile to handle different sizes of thimble, Extraction beakers &amp; Nitro Cellulose thimble Size : (25 mm dia X 80mm L) and (33 mm dia x 80mm),</li><li>• Additional one set beakers &amp; Thimble box.</li><li>• Electrical Requirement:230V/50Hz. AC Mains.</li></ul>
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