



**Directorate of Research**  
**BIDHAN CHANDRA KRISHI VISWAVIDYALAYA**  
**PO- Krishi Viswavidyalaya, Mohanpur (741252), Nadia, W.B.**

**e-TENDER NOTICE**

Ref. No. BCKV/RKVY/LTC-2/2022-23

Dated the 30/8/2022

Sub: Most competitive and complete quotations are invited through GeM for Online UPS for supply & installation in the project on Establishment of Advanced virus and other pathogens diagnostic and Testing Service Centre for Plant Propagation Materials for the benefit of the Farmers and Entrepreneurs in West Bengal” under RKVY-RAFTAAR, Directorate of Research, Mohanpur, Nadia, W.B. Quotation of equipment must include, installation charges etc, if require, in Indian Rupees only, even if the main equipment is quoted in foreign currency. Without essential accessories tender will be considered as incomplete. However, University will provide valid DSIR and authorization certificate to the clearing agent, way bill if require.

Sl. No.	Name of the Item/equipment	Technical Specification	Approx. Estimate(Rs.) as per DPR	Mode of procurement
1.	Online UPS with stabilizer	<p><b>UPS Ratings: 6KW</b> <b>UPS Type: True Online Double conversation with integrated Smart sleep technologies along with DSP Based UPS system with IGBT based rectifier and Inverter.</b> <b>Mandatory System Features: UPS efficiency</b> Online mode efficiency up to &gt;89% with inbuilt transformer. Eco mode efficiency up to 95%</p> <p><b>Input Parameters :</b> It Should be possible to configure the UPS system for single Phase (220/230/240VAC) and Single Phase Output.(220/230/240VAC) Permissible Input voltage range : 176V AC - 288V AC Input frequency Range : 40Hz-70Hz <b>Nominal Frequency: 50Hz/60Hz</b> <b>Input power factor : &gt;0.99 p.f</b></p> <p><b>Intermediate Dc Circuit Parameters:</b> <b>Nominal DC bus voltage: 140VDC – 240VDC</b> Types of batteries supported : SMF Battery Charging min : 5A</p> <p><b>Output Parameters:</b> <b>Output power rating at 1.0 pf: 6KW</b> <b>Output power factor : Unity</b> <b>Output voltage precision : +/-3%</b> Output voltage distortion for &lt;2% for 100% Linear Load &lt; 5% for 100% Non Linear Load</p> <p><b>Power Rating at Unity pf : 6kW</b></p> <p><b>Output Crest factor capacity : 3:1</b> <b>Overload Capacity : at 25°C</b> Upto 105%~ 125% for 5 mins, Upto 125%~ 150% for 1 mins Over 150% for 200ms</p> <p><b>Batteries : SMF Battery: 20 Blocks of 12V for each set</b> Battery VAH should not less than 10000 VAH for total 60mins backup.</p>	3.0 lakh	e-Tendering

		<p><b>Special Feature (Mandatory):</b> Operating Temperature : 0-50°C without de-rating UPS output capacity. Operates in a parallel configuration upto 4nos Output Outlet :UPS output socket / Outlet should be programmable with cascade protection .</p> <p><b>Display :</b> Gravity Sense LCD display.</p> <p><b>Safety :</b> General &amp; Safety Requirement: IEC/EN 62040-1 EMC : IEC/EN 62040-2.</p> <p><b>Ethernet Port :</b> Built in with the UPS system to support monitoring and modbus function.</p> <p><b>Protection Parameter :</b> Dust Proof, Moisture Proof , High Temperature Proof,</p> <p><b>Certification:</b> RoHS, SEISMIC Certification on this series .</p>		
2.	<b>Electrophoresis system</b>	<p><b>Power Pack:</b></p> <ul style="list-style-type: none"> <li>• The power pack should be from a reputed manufacturer.</li> <li>• It must have 5-300V, 1-700mA and 150W with 1V/1mA increment.</li> <li>• Should be capable of running at constant current constant voltage.</li> <li>• Power supply should have 5 pair of output to connect 5 units all together in the same unit.</li> <li>• It should be programmable to set different programs.</li> <li>• Display should be 2.4" LCD display.</li> <li>• It must include preset programs and must have 6 steps with 30 programmable files.</li> <li>• Should have timer to 999 minutes and timer alarm too after the end of run.</li> <li>• When target constant mode is set, the system automatically adjusts the two other parameters to maximum to allow for a constant run.</li> <li>• Safety Feature: No Load detection, Leakage detect, Over load detection, Over temperature protection, &amp; Sudden load change detection.</li> <li>• Operating temperature 4°C~ 40°C.</li> <li>• The unit must have Safety Requirements for Electrical Equipment for measurement, Control, and Laboratory Use – Part 1: EN61010-1: 2001, General requirements Following the provisions of Directives 73/23/EEC (Low Voltage) and 89/336/EEC (EMC) as amended by 93/68/EEC (CE Marking).</li> </ul> <p><b>Mini Horizontal Electrophoresis:</b></p> <ul style="list-style-type: none"> <li>• System should be completely self contained system designed for quick checks of samples.</li> <li>• Gel casting, running and analysis all should be performed in the same unit.</li> <li>• Should have UV transparent base to allow direct viewing on a UV transilluminator.</li> <li>• Gel dimensions should be 10x8cm.</li> <li>• Should have in-built tray with dual comb slots.</li> <li>• Two combs of 1.5mm thickness for 8 samples should be provided with the unit.</li> <li>• Casting dams should also be included for tape free casting.</li> <li>• Buffer volume should not be more than 50ml.</li> <li>• Should be able to run maximum of 40 samples.</li> <li>• Option for multichannel compatible combs.</li> <li>• The unit must have Safety Requirements for Electrical Equipment for measurement, Control, and Laboratory Use –</li> </ul>	3.0 lakh	

Part 1: EN61010-1: 2001, General requirements Following the provisions of Directives 73/23/EEC (Low Voltage) and 89/336/EEC (EMC) as amended by 93/68/EEC (CE Marking).

**MSMIDI10 Horizontal Electrophoresis:**

- The horizontal electrophoresis unit must include 10X10cm tray.
- Gel Trays should be UV transparent.
- Lid and cables should be separate and must not be attached.
- Bromophenol Blue migration should be approx 4-5cm/h at 90V.
- Run time should be 45-60 min at 90.
- Should include 1 mm thick 2 combs of 16 sample wells.
- Buffer volume should not be more than 300ml.
- Tank of the system should be single moulded to ensure leak proof buffer tank. Even the parts should also be single molded that are easy to repair and replace.
- 16 sample combs should have 16 µl sample capacity in each well.
- The electrodes should not be attached to the tank and should be cassette type electrodes for easy repair and replacement.
- Should have pure platinum wire and gold plated corrosion resistant electrodes.
- Should include casting dams for tape free casting of gels.
- Should include loading guides for easy identification of wells.
- Should have color coded combs option and should have options for 0.75mm, 1mm, 1.5mm and 2mm combs.
- It should support widest range of combs to run up to 100 samples.
- The unit must have Safety Requirements for Electrical Equipment for measurement, Control, and Laboratory Use – Part 1: EN61010-1: 2001, General requirements Following the provisions of Directives 73/23/EEC (Low Voltage) and 89/336/EEC (EMC) as amended by 93/68/EEC (CE Marking).

**MSMini7 Horizontal Electrophoresis:**

- The horizontal electrophoresis unit must include 7X7 cm tray.
- Gel Trays should be UV transparent.
- Lid and cables must be separate and should not be fixed.
- Should be able to run up to 64 samples.
- Bromophenol Blue migration should be approx 4-5cm/h at 80V.
- Run time should be 45-60 min at 80V.
- Should include 1 mm thick 2 combs of 8 sample.
- Buffer volume should not be more than 225ml.
- Should have multichannel compatible combs for speed loading.
- 8 sample combs should have 25µl sample capacity in each well.
- Should have cassette type electrodes for easy changing of electrodes and must not be fixed to the tank.
- Should have pure platinum wire and gold plated corrosion resistant electrodes.
- Should include casting dams for tape free and leak proof casting of gels.
- Should include loading guides for easy identification of wells.
- Should have color coded combs option and should have options for 0.75mm, 1mm, 1.5mm and 2mm combs.
- The unit must have Safety Requirements for Electrical

	Equipment for measurement, Control, and Laboratory Use – Part 1: EN61010-1: 2001, General requirements Following the provisions of Directives 73/23/EEC (Low Voltage) and 89/336/EEC (EMC) as amended by 93/68/EEC (CE Marking).		
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Vendor who will sign the bid on behalf of company or firm must produce registered documents in respect of their competency and specificity on demand. The authority reserves the right to accept at their sole and unfettered discretion any tender for whole or part quantities or to reject any or all tenders without assigning any reason thereof. No claims for compensation or otherwise whatsoever will be entertained by authority from any tenderer.

**Manufacturers Credentials for participating of bid for online UPS**

Manufacturer must be ISO 9001:2015 certified. Certificate must be enclosed  
 Manufacturer must be ISO 14001:2015 certified. Certificate must be enclosed  
 Manufacturer must be ISO 27001:2013 certified. Certificate must be enclosed  
 Manufacturer must be ISO 45001:2018 certified. Certificate must be enclosed  
 Bidder if not the manufacturer, must provide  
 Manufacturer's Tender Specific Authorization that the bidder is authorized sales & service provider.

Bidder Should be ISO Certified and Business operation in related filed at least 20years in West Bengal. Documents should be attached.

**The vendor should have enough experience in supply and installation of similar nature of equipment's to any Government / Semi Government organization. Supporting documents (order copy, installation report, credential certificates) must be submitted**

**General Terms & Conditions**

1. Time of Bid end: seven days from the date of e-tendering date
2. Delivery Periods: Equipment must be supplied within 45 days from the date of issuing order.
3. Price: Rate should be quoted including GST & other taxes as applicable and including delivery charge. Tenderer's quotation must conform in all respects to the applicable specifications and terms & conditions of invitation to tender. Tenderer should certify that their quotation complies with all enquiry documents and specifications. Exceptions and deviations, if any, should be specifically stated. In the event of the tenderer not giving any exceptions and deviations in their tender then it will be construed that the tenderer has accepted BCKV's invitation to the tender in full.
4. Bid Validity: The quoted Bid shall be valid for a period of 60 days. The Authority may ask the bidders for extension of bid validity if required.
5. Vendor who will sign the bid on behalf of company or firm must produce registered documents in respect of their competency and specificity on demand.
6. The acceptance of tender will rest with the accepting authority who does not bind himself / themselves to accept the lowest or any tender and also have a right to reject the entire tender without assigning any reason thereof.
7. The tenderers those will participate the tender they must clear the GST tax up to date.
8. The authority reserves the right to accept at their sole and unfettered discretion any tender for whole or part quantities or to reject any or all tenders without assigning any reason thereof. No claims for compensation or otherwise whatsoever will be entertained by authority from any tenderer.
9. Tenderers are requested to adhere to the terms & conditions of this Bid document. Any deviations from the stipulated terms & conditions will be suitably considered for the evaluation of tenders.
10. Please enclose a printed brochure of the UPS system along with the offer in case there is a mismatch between quoted specifications and the Brochure Specifications then the tender may be rejected.

*Jayanta Tarafdar*  
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 PI of the RKVY-RAFTAAR project

*As per decision in the 2nd LTC meeting held on 5/9/2022, the tender notice is approved to upload in the University website for e-tendering. It has been forwarded to the Registrar for info.*  
 5/9/22