



**Centre for Kashmir Himalayan Biodiversity  
(Documentation, Bio-prospection and Conservation)  
University of Kashmir, Srinagar-190 006  
Jammu & Kashmir, India**

**No: F. Tender\_UOK/CPEPA/2018-I**

**Dated 12-01-2018**

**NOTICE INVITING TENDER**

For and on behalf of Competent Authority of the University of Kashmir, e-tenders for the supply, installation and testing of equipment specified hereunder in this tender notice are invited from the manufacturers or their authorized distributors/dealers in two-bids system through e-procurement solution only as per the guidelines, and terms & conditions given in the tender document. Details of the NIT along with terms & conditions, specifications etc. can be seen/downloaded at/from the website [www.jktenders.gov.in](http://www.jktenders.gov.in) (Tender ID:2018\_UDJK\_49867\_1). Tender document is also available for viewing on the website of University of Kashmir, [www.kashmiruniversity.ac.in](http://www.kashmiruniversity.ac.in). The interested tenderers should upload duly signed tender form and their bids along with scanned copies of all the relevant certificates, documents etc. in support of their technical & price bids, all duly signed, on the: [www.jktenders.gov.in](http://www.jktenders.gov.in).

For participation in the tender through e-procurement solution, the tenderers are required to have digital certificates and other required documents.

Important dates related to the tender are as follows:

S. No	Activity	Date
1.	Date of issuance of tender notice	12-01-2018
2.	Date of downloading the bid documents	12-01-2018 (3.00 pm)
3.	Bid Submission Start Date	12-01-2018 (3.30 pm)
4.	Last Date for seeking clarifications	17-01-2018 (3.00 pm)
5.	Bid Submission Last Date	02-02-2018 (3.00 pm)
6.	Last date for submission of hard copies	05-02-2018
7.	Date and Time of Opening of Technical bid	07-02-2018 (11.30 pm)
8.	Date and Time of Opening of Commercial bid	To be intimated

Yours faithfully,

**Chief Coordinator  
CPEPA, Department of Botany  
University of Kashmir, Srinagar-190006  
Jammu & Kashmir, India**

## Name of equipment and their technical specification

Equipment	Specifications	Quantity
Cooling Microcentrifuge	<ul style="list-style-type: none"> <li>• Automatic rotor recognition</li> <li>• 'Fast Temp' for achieving required temperature in shortest possible time</li> <li>• Should have a low access height: 25cm</li> <li>• Should have maximum speed: 16000 rpm or more</li> <li>• Should have Maximum RCF: 25,000 x g or more</li> <li>• Acceleration time to max.rpm: &lt;18 s</li> <li>• Braking time from max.rpm: &lt;18 s</li> <li>• Temperature range: -11°C to 40°C</li> <li>• Should have a built-in condensation drain to eliminate water accumulation.</li> <li>• Should have a capacity to accommodate 5ml rotor</li> <li>• All the rotors supplied should autoclaveable.</li> </ul> <p style="margin-left: 20px;">Rotor to be supplied:</p> <ul style="list-style-type: none"> <li>• The Metallic Rotor should have a maximum capacity of 48 x1.5ml/2ml tubes with 12,500 rpm and 18,000 x g.</li> <li>• Adaptor for 0.2/0.5ml tubes should be provided.</li> <li>• Instrument should be European CE certified.</li> <li>• IQ/OQ and PQ should be provided at the time of installation.</li> </ul>	One (01)
Mini Spin	<ul style="list-style-type: none"> <li>• Should have a Max. Rcf 16800 or better</li> <li>• Should have a speed of 100-14000rpm ( 100 rpm steps) or better</li> <li>• Timer from 30 sec to 99 mins with continuous run function</li> <li>• Brushless motor</li> <li>• Should be supplied with Metallic Aerosol Tight Rotor 18X1.5ml tubes</li> <li>• Fixed angle rotor should be at 45°</li> <li>• Autoclavable rotor (121° C, 20 mins)</li> <li>• Separate Short-spin button - for quick centrifugation</li> <li>• Should have acceleration time 11s and</li> </ul>	One (01)

	<p>deceleration time 12s.</p> <ul style="list-style-type: none"> <li>• Power consumption should not more than 180W.</li> <li>• Should have a one year warranty</li> <li>• Adaptors for 0.2/0.5ml tubes should be supplied</li> <li>• IQ,OQ and PQ should be provided at the time of installation.</li> </ul>	
<p><b>Gel DOC with chemiluminiscent imaging</b></p>	<ul style="list-style-type: none"> <li>• System should be capable for Western blot imaging, DNA, RNA gel and colorimetric protein gel imaging with extensive analysis tool for molecular weight calculation, band distance, colony counting, merge marker, etc.</li> <li>• Proprietary fixed manual lens with F/0.84 aperture</li> <li>• Sensor size must be at least 1 inch and should be Lumigen coated</li> <li>• Should have auto reconnaissance 4-position manual filter wheel allows for dye flexibility of different fluorescent stains.</li> <li>• Should have scientific Grade eVo-6 CCD camera with sensor size of 1 inch must for high sensitivity and extremely high level of resolution</li> <li>• Camera should give 6.3 megapixels native and 20 megapixels of extended resolution with -55°C maximum differential cooling from the ambient with -30°C absolute and regulated cooling by three stage peltier thermoelectric cooler.</li> <li>• Image output should be of publication quality TIFF format 16-bit with 65,536 gray scales and dynamic range of &gt; 4.8 OD</li> <li>• Should be a lab proof compact design, require minimal bench space, robust and chemical resistant system made of Stainless steel, aluminum, steel and not of plastic cabinet to avoid auto fluorescence from the dark room</li> <li>• UV transilluminator must have Superbright Technology to visualize faint bands thereby increased sensitivity with no visible light background while performing gel documentation</li> <li>• Should have Sensoview Technology for isolation of the electronic components of the camera during the light capture in order to avoid noise</li> <li>• Should have Fluo Flash Technology for smart auto exposure mode with optimum exposure time calculation</li> <li>• Should have sensor based detection of sample height</li> </ul>	<p><b>One (01)</b></p>

	<ul style="list-style-type: none"> <li>• <b>Should have light safety switch override for safety and for preparative work when the door is open</b></li> <li>• <b>Software should be multi-user licensed provided for analysis and must include features for auto exposure and 3D Dynamic scan.</b></li> <li>• <b>Software should have Apps Studio with library of applications for better ease of use</b></li> <li>• <b>System must have future upgrade possibilities for two color multiplexing studies with choices of Red, Green, Blue and/IR module for protein multiplexing studies.</b></li> <li>• <b>System should be supplied with suitable desktop computer for operation and data analysis</b></li> </ul>	
<p><b>Carbon dioxide Incubator</b></p>	<ul style="list-style-type: none"> <li>• <b>170-Liter CO<sub>2</sub> incubator with High Temperature Disinfection facility</b></li> <li>• <b>Direct Heating system with Six-Sided heating effect</b></li> <li>• <b>IR CO<sub>2</sub> sensor with automatic auto-zero programmable function to ensure accurate calibrated measurements.</b></li> <li>• <b>Fanless Design.</b></li> <li>• <b>Seamless Chamber.</b></li> <li>• <b>Temperature range Ambient +4 °C to 50 °C.</b></li> <li>• <b>Temperature Control ±0.1 %</b></li> <li>• <b>Temperature stability at 37 °C ±0.1 °C</b></li> <li>• <b>Temperature uniformity ±0.3 °C</b></li> <li>• <b>CO<sub>2</sub> control ±0.1 %</b></li> <li>• <b>CO<sub>2</sub> range 0.2 – 20 %</b></li> <li>• <b>CO<sub>2</sub> stability at 5 % CO<sub>2</sub> ±0.2 %</b></li> <li>• <b>CO<sub>2</sub> uniformity ±0.1 %</b></li> <li>• <b>25mm Access port with RS -232 Communications port.</b></li> <li>• <b>Perforated Shelving . 4-position shelving rack with 4 shelves.</b></li> <li>• <b>Sealed inner glass door for atmosphere conservation.</b></li> <li>• <b>Large Volume humidification pan with dedicated independent heater.</b></li> </ul>	<p><b>One (01)</b></p>

	<ul style="list-style-type: none"> <li>• Quick and comprehensive chamber cleaning made effortless.</li> <li>• HEPA filtration of gas supply inlets to minimize contamination risk.</li> <li>• High Temperature Disinfection: 120 °C 4-hour cycle.</li> <li>• Suitable Regulator with two Cylinder should be supplied.</li> <li>• Room Temperature Controlling System 1.5 Ton should be supplies along with instrument.</li> <li>• Should be supplied with 4 split inner doors.</li> <li>• Should have European CE.</li> <li>• IQ,OQ and PQ should be provide at the time of installation.</li> </ul>	
Carbon dioxide cylinders	<ul style="list-style-type: none"> <li>• Indian</li> <li>• 30 KG capacity</li> </ul>	Two (02)
GC-MS	<ul style="list-style-type: none"> <li>▪ General Specification - Gas Chromatograph Mass Spectrophotometer with Head Space system: <ul style="list-style-type: none"> <li>• A microprocessor controlled Latest Dual channel Gas Chromatograph should be fully automated with following minimum capabilities :- <ul style="list-style-type: none"> <li>• Oven Ramps 20 times or more</li> <li>• Electronic Pneumatic Control of carrier gas pressure &amp; flow independently.</li> <li>• Oven temperature Ambient up to 4°C to 450°C.</li> </ul> </li> <li>○ <u>Column Oven</u> <ul style="list-style-type: none"> <li>• Accommodates up to two 105m x 0.53mm id capillary columns.</li> <li>• Operating temperature range suitable for all columns (packed &amp; capillary) and Chromatographic separations. Ambient temperature +4°C to 450°C.</li> <li>• Temperature set point: 1°C.</li> <li>• Column oven cooling from 450°C to 40°C within 4.0 min.</li> <li>• Maximum achievable temperature ramp rate: 100°C/min or better.</li> <li>• Temp. Variation/rejection: &lt;0.01°C per 1°C</li> <li>• Carrier gas pressure setting range from 0 to 900 kPa or better.</li> <li>• Electronic Pneumatic Control of carrier gas pressure &amp; flow independently.</li> <li>• Replacement of GC column without venting MS vacuum should be possible,</li> </ul> </li> </ul> </li> </ul>	One (01)

- GC should have inbuilt back flush facility in order to flush back the impurity or compounds that we have sometimes injected wrongly or to clean the column.

- Split/split less capillary inlet (S/SL) with EPC/APC-TWO

- Split/splitless injector port - two
- Suitable for all capillary columns (50 $\mu$ m to 530  $\mu$ m, id).
- Split/Split less mode for trace analysis.
- Maximum temperature: Ambient temp 400°C or more.

- FID Detector

- Minimum detectable level: < 1.4 pgC/sec (Tridecane)/< 1.5 pg C/sec (Dodecane) or better.

- Mass Spectrophotometer specification

- MS: Electron impact ionization (EI), with full scan (FS), SIM, and simultaneous SIM/scan operations.

- Fast quadrupole scanning, up to 15,000u/s or better.

- Mass resolution and Mass stability

- Unit mass resolution

- Mass stability better than 0.1u/48hours

- Detector

- Detector should be an EMT with the design capable of removing neutrals

- Electron Ionisation (EI)

- •Ion source temperature: up to 350°C

- •Filament: Dual (Automatic switching)

- •Electron energy: 10 to 200 V

- MASS ANALYZERS

- •Quadrupole mass filter with monolithic, hyperbolic shaped heated quadrupole

- PURGE AND TRAP INJECTOR (OPTIONAL)

**(Quote price with and without this optional accessory)**

- PTC Sample Concentrator for liquid samples with 60" Siltek treated transferline, tubing and treated fittings through sample pathway, heated sample mount, Dry flow Moisture System. Should be upgradable to Autosampler.

- 1. Fully automated liquid auto injector / auto sampler

- 2) Thermal desorption unit to be attached to the GC/MS for dynamic headspace sampling.

- 3) TD measurements (can be combined with liquid autosampler if possible for at least 10 samples).
- 4) Remote controlled , cooled injection system.
- 5) It should inject from 0.1  $\mu$ L to 200  $\mu$ L or better range with variable speed and must perform from software. Should have capacity for 100 or sample vials.
- 6) Auto Sampler must have facility to inject samples at two injection port or others.
- 7) No. of Channels At least two, Operating Voltage 230 V.
- 8) Separate Tube conditioner module (heater and gas flush) for separate preconditioning of TD sample tubes.
- 9) It should be an ideal system for field based situations and cryogenfree operation.
- 10) Capable of Electrical cooling, low gas consumption and possibly stringent leak testing.
- Library :
- NIST library–latest version NIST 2014 with license to be supplied with the system( If possible latest version).
- **STANDARD SPECIFICATION**
- EI Scan sensitivity 1500:1 S/N for 1 $\mu$ L injection of 1 pg/ $\mu$ L OFN, scanning from 50-300 amu at nominal m/z 272 ion
- Instrument Detection Limit (EI) : IDL limit of 10 fg or less of OFN for a 1 $\mu$ L injection of 100fg/ $\mu$ L OFN standard demonstrated at the time of installation
- **HEAD SPACE**
- Headspace analyzer with 10 Vials or more with EPC control and Vial shaking Facility. The HS should be software controlled. There should be provision to connect autosampler and headspace sampler to a single inlet simultaneously .
- **Chromatographic Data Software:**

	<ul style="list-style-type: none"> <li>○ <b>64-bit Windows XP/Vista compatible data software includes Single point control of all GC and its Modules, customizable reports, data acquisition and post-run analysis.</b></li> <li>• <b>User Friendly Software (Licenses version) - Should be Windows based operation system with validation facility for Chromatography.</b></li> <li>○ <b>Computer controlled system, 19" monitor computer system with 500 GB hard disc, 04GB RAM with other latest configurations of reputed make, laser printer of reputed make. Software should provide total support to analysis work controlling all the modules, Software features include high speed data acquisition and build analysis compatibility, full qualitative and quantitative processing function capability,</b></li> <li>• <b>Following items to be supplied along with the instrument:</b></li> <li>• <b>Gas cylinders with regulators (He, H<sub>2</sub>, N<sub>2</sub>, zero air) and gas purification panel.</b></li> <li>• <b>UPS with 10KVA capacity and 30minutes back up.</b></li> <li>• <b>Columns HP5 MS 30m x 0.25mm x 0.25um or equivalent : 1 No</b></li> <li>• <b>HP Innowax 30m x 0.25mm x 0.25 um or equivalent 1 No</b></li> <li>• <b>DB35 MS 30m x 0.25mm x 0.25 um or equivalent 1 No</b></li> <li>• <b>Autosampler vials 2ml capacity 500 Nos</b></li> <li>• <b>Headspace vials 20 ml capacity 200 nos</b></li> <li>• <b>Ferrules for columns for both MS and FID 20 Nos each</b></li> <li>• <b>Inert glass liner for Split/splitless inlet 25 Nos</b></li> <li><b>Low bleed Septa for Inlets : 100 Nos</b></li> </ul>	
<b>Biosafety Level-II Cabinets</b>	<ul style="list-style-type: none"> <li>• <b>Type A2 Biological Safety</b></li> </ul>	<b>One (01)</b>
<b>Deep Freezer (-80)</b>	<ul style="list-style-type: none"> <li>• <b>CFC-free refrigeration</b></li> <li>• <b>Exterior :18 gauge steel, 1.2mm thick. Powder coated .</b></li> <li>• <b>Interior: Top Quality, Polished 304L Stainless steel.</b></li> <li>• <b>internal capacity should be in the range of 400-450Liter.</b></li> </ul>	<b>One (01)</b>



- **Four adjustable shelves with five separate door.**
- **Adjustable temperature setting from -40 to -86 degree.**
- **Insulation: Urethane insulation**
- **lowest attainable temperature of -80°C at the ambient temperature range of 32°C.**
- **Membrane keypad eye level control panel.**
- **Door Latch: Molded handle with built in removable lock.**
- **Battery back up: Activate alarms and displays during power outages time delay and temperature delay mode for second stage compressors.**
- **minimum of 5 year warranty for compressor and refrigerant**
- **Alarm for power failure, high low temperature, battery low , filter clean and fault analysis.**
- **Alarm and temperature should be adjustable with in 1 degree increments.**
- **Inbuilt diagnostic software provides fault codes to trace and solve system error.**
- **On off switch and On off Alarm should be lockable**
- **4 digit password for set point security**
- **Door Latch: Moulded handle with built in removable lock.**
- **Automatic Reset: Protect the microprocessor controller from failure caused by Power Spikes.**
- **Automatic returns alarm and set points to user –programmed level after power interrupted.**
- **Power consumption not more than 12kWh/day.**
- **Heat output should not more than 650W**
- **Noise level should be more then 55dB**
- **Pull down Time should not more than 5.3 hrs.**
- **Compatible Servo Voltage Stabilizer should be provided.**
- **Instrument Should be European CE and UL certified**
- **IQ,OQ and PQ documentation should be provided at the time of installation.**

Microplate Reader	<ul style="list-style-type: none"> <li>• Having monochromator base-UV-Visible wave length selection.</li> <li>• With Complete Data analysis software.</li> </ul>	One (01)
UV/Visible Spectrophotometer	<ul style="list-style-type: none"> <li>• Quantification of sample volumes from 'Microlitres to Millilitres'.</li> <li>• System should be capable of determining very low concentration of biomolecule using fluorescent dyes, with an excitation wavelength of 470 nm and emission wavelengths of 520 and 560 nm</li> <li>• Should have in-built pre-programs for nucleic acids and protein quantification by fluorescence intensity using dyes such as PicoGreen®, OliGreen®, RiboGreen® and NanoOrange®.</li> <li>• Fluorescence intensity should be across a range of 0.5 nM - 2,000 nM fluorescein</li> <li>• Detection limit for dsDNA should be 1 pg/μL</li> <li>• Should have excitation wavelength 470 m with 25 nm bandwidth and emission wavelengths 520 nm with 15 nm bandwidth and 560 nm with 40 nm bandwidth</li> <li>• Random error should not exceed ± 2% at 1 nM fluorescein (emission wavelength 520 m)</li> <li>• Optics must have the combination of xenon flash lamp with holographic aberration-corrected concave grating and receiver as CMOS photodiode.</li> <li>• Operating principle must be with two beams: Absorption single-beamspectrophotometer with the reference beam.</li> <li>• Instrument should operate moment switched on with no warming up time.</li> <li>• Should be compact &amp; stand-alone system to handle sample volume ranging from 1.5 μL to 4 mL.</li> <li>• UV/Vis wavelength range from 200 nm to 800 nm, with spectral scanning feature.</li> <li>• Low volume measuring surface must be of quartz and must be hydrophobic.</li> <li>• System should also allow using conventional quartz/glass/plastic</li> </ul>	One (01)

	<p>cuvettes in addition to lowvolume measurement.</p> <ul style="list-style-type: none"> <li>• Must allow rapid and reliable quantification of Nucleic acids and proteins, OD600, dye methods(to calculate the FOI (both nucleic acid &amp; protein).</li> <li>• Detection range for dsDNA: 2.5 ng/μL – 1500 ng/μL (with defined pathlength of 1 mm).</li> <li>• Concentration via standard series must have curve fit evaluations viz., Regressions (linear,cubical, quadratic), and Interpolations (linear &amp; Spline) with curve sections in detail with viewdirectly on the instrument display.</li> <li>• Should allow transfer of measured data to PC by connecting the device directly to PC withoutany additional software in addition to transfer the data via USB stick.</li> <li>• Must have Multi – wavelength, Dual-wavelength applications with subtraction and divisionanalysis.</li> <li>• Direct operation on the device, with no requirement for PC.</li> <li>• Measuring results (&gt;1,000) can be saved directly on the device &gt;100 method programs in memory.</li> <li>• Spectral band width: &lt; 4 nm</li> <li>• System should be supplied with Micro-cuvette, Micro-cuvette and Disposable cuvettes.</li> <li>• IQ,OQ,PQ should be provided.</li> <li>• Instrument should be CE certified, European.</li> </ul>	
<p><b>vetScan Biochemistry Analyser</b></p>	<p>Fully automated analyzer for Blood chemistry, electrolytes, immunoassay and blood gas equipped with Intelligent Quality Control. Specifically designed for veterinary applications. Sample integrity alerts: hemolysis (HEM), lipemea (LIP) and icterus (ICT). Able to give results with small amount of whole blood, complete profiling within 10-12 minutes. Able to analyze 8 different profiles viz. Comprehensive Diagnostic Profile (especially blood: Glucose, total protein, albumin, triglycerides, cholesterol, calcium,</p>	<p><b>One (01)</b></p>

	<p>magnesium, inorganic phosphorus, ALP, AST, LDH, GGT, CPK, lipase, Urea, bile acids, uric acid and creatine kinase), Prep Profile II, Critical Care Profile, Equine Profile Plus, Large Animal Profile, T4-Cholestral Profile, Avian Reptilian Profile Plus, Mamelian Lever. Full colour touch screen operation. Stores up to 5000 test records, inbuilt and other connectivity option.</p> <p><b>OPTIONAL</b></p> <p><b>Additional Rotars</b></p>	
<b>Growth Chamber</b>	<ul style="list-style-type: none"> <li>• Of appropriate dimension for large experiments</li> <li>• Temp 5 to 45 degree</li> <li>• Option for variable CO<sub>2</sub> regime across chambers</li> <li>• High degree of accuracy and reliability in the control of temperature, humidity and lighting with a provision of larger plants of up to 1.5m can be grown inside the chamber.</li> <li>• Available with up to 5 shelves</li> <li>• Shelves can easily be added or removed by the user</li> <li>• Individually controllable shelf lighting</li> <li>• Optional humidity up to 90%rh</li> <li>• Separate chamber for seed storage, constant temperature chamber, easily adjustable tissue culture racks in each chamber</li> </ul>	<b>One (01)</b>
<b>Line Quantum Sensor</b>	<ul style="list-style-type: none"> <li>• One Meter Long Single Quartz Sensor</li> <li>• LI-191R Line Quantum Sensor</li> <li>• The output of Line Quantum Sensor should have an option to be given to a Data Logger or to a Readout device</li> </ul>	<b>One (01)</b>
<b>Canopy analyser</b>	<ul style="list-style-type: none"> <li>• Built-in GPS for GPS integration and mapping</li> <li>• Should works under any sky condition and be suitable for any size canopy – from Grass Canopy to Forest Canopy</li> <li>• Takes into account the scattering effect under full sun light condition</li> </ul>	<b>One (01)</b>
<b>Ecosounder</b>	<ul style="list-style-type: none"> <li>• Multibeam</li> <li>• Inbuilt GPS or GPS integrable</li> <li>• Wide swath</li> <li>• Depth range 0.30 m to 75.0 m</li> </ul>	<b>One (01)</b>

	<ul style="list-style-type: none"> <li>• High depth measurement accuracy</li> <li>• Operating temperature -3- to 45 degree centigrade</li> <li>• Usable battery life not less than 12 hrs</li> <li>• High standby battery life</li> <li>• Licensed application software</li> </ul>	
Qubit Fluorometer	<ul style="list-style-type: none"> <li>• The Qubit® 3.0 Fluorometer</li> <li>• Fast and highly accurate quantitation</li> <li>• High levels of accuracy</li> <li>• Storage of results up to 1000 samples</li> <li>• Graphical display</li> </ul>	One (01)
Liquid Nitrogen Tank	<ul style="list-style-type: none"> <li>• With Rack and Box system.</li> <li>• With level monitors.</li> <li>• 90 liters</li> </ul>	One (01)
Shaking incubator	<ul style="list-style-type: none"> <li>• Speed range: 25 to 400 rpm +/- 1 rpm</li> <li>• Plat form size should be 460mmx 460mm.</li> <li>• Temperature Range : At least 20deg C below ambient up to 80deg C , must have Minimum set point 4deg C)</li> <li>• Temp Accuracy: ± 0.1°C at 37°C, with a uniformity of ± 0.25°C.</li> <li>• 1.9 or 2.5 cm (0.75 or 1 in) orbit options is mandatory</li> <li>• Controller: programmable for speed up/down and temperature up or down on a timed basis.</li> <li>• Multifunction single knob operation or key pad , no touch screen.</li> <li>• At least provision of 12 or more multistep programing each with shaking time and temperature.</li> <li>• Electrical motor : Brushless motor.</li> <li>• Drive : Triple eccentric electromagnetic Drive.</li> <li>• Stackable : at least two machines should be stackable wihtout any stand.</li> <li>• Universal tray with clamps should have capicity to hold of variable sizes (50ml to 6L) and at least 18 flaks of 250ml capacity.</li> <li>• Moisture proof internal electric socket installed in chamber for provision of run external equipment.</li> <li>• Provision for shelf (with adjustable height) inside the incubator for incubating petri plates (to be provided</li> </ul>	One (01)

by original equipment manufacturer).

- **Facility for future up-gradation for Gassing manifold for direct gassing into containers placed inside the shaker, Photosynthetic light for plant tissue culture, UV Light .**
- **Alarms System should have audio visual alarms if units operates +/- 5 rpm and +/- 1 Degree centigrade of set parameters.**
- **Clamps to be supplied: 50ml-3nos., 125ml-3nos.250ml: 3 nos., 500ml: 3nos. nos.,**
- **Should have Multi-function reservoir, with built-in pluggable drain, humidifies chamber to reduce sample evaporation as well as capture accidental spills.**
- **Should have Spill cover, above the drive, additionally protects electronics and mechanical components.**
- **Equipment should European CE,UL/USFDA certified**
- **Atleast 200 installation shuld be supplied of same model in India.**
- **IQ,OQ,PQ with validation certificate should be provided.**

(TO BE SUBMITTED ALONG WITH TECHNICAL BID)

**TENDER NOTIFICATION NO: -----**

**UNDERTAKING**

The Chief Coordinator,  
CPEPA, Department of Botany  
University of Kashmir, Srinagar  
J&K, India

We the undersigned (herein after called as Contractor/Vendors/Suppliers) hereby offer to execute supply of items as per specification against which we have quoted our rates and for which this tender may be accepted at the rates stated there in and subject to the terms & conditions set forth for such items.

**Date this \_\_\_\_\_ Day of \_\_\_\_\_**

**Signature of Contractor \_\_\_\_\_**

**Address \_\_\_\_\_**

\_\_\_\_\_

\_\_\_\_\_

## **Guidelines/Procedure**

1. **Payment of cost of Tender documents**: The collection of cost of Tender documents is dispensed with, as there is no physical supply of tender documents and also to have absolute anonymity of bidders participating in e-procurement solution. The bidders can view/download the tender documents from the: [www.jktenders.gov.in](http://www.jktenders.gov.in).
2. **Submission of bids**: The bidders who are desirous of participating in e-procurement shall submit their technical and price bids online in the standard formats prescribed in the Tender documents, displayed at: [www.jktenders.gov.in](http://www.jktenders.gov.in). The bidder should upload the scanned copies of all the relevant certificates, documents etc. in support of their bids. The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity and copies thereof may also be submitted in the office of the **Chief Coordinator, CPEPA, Department of Botany, University of Kashmir, Srinagar-190006, J&K, India** along with original EMD before the specified date & time. Financial bids shall be submitted online only. In the event of the specified date for physical submission of EMD along with copies of bid documents is declared a holiday, the same will be received up to the appointed time on the very next working day. However, documents of the bidders downloaded online or requisitioned subsequently only will form the basis for deciding the tender.
3. **Payment of Bid Security (Earnest Money Deposit)**: The EMD as specified against each item/ equipment in the tender document shall be in the form of the **Bank Guarantee/Fixed Deposit Receipt/DD only** of a scheduled bank issued in favour of **Chief Coordinator, CPEPA, Department of Botany, University of Kashmir, Srinagar-190006, J&K, India** and the zerox copy thereof is to be scanned and uploaded along with the bid, and the original shall be sent to **Chief Coordinator, CPEPA, Department of Botany, University of Kashmir, Srinagar-190006, J&K, India** so as to reach before the date & time of closing of the bids; failing which bid will be rejected. The Bid Security (EMD) of unsuccessful bidders will be released immediately after finalization of the order/contract without any interest. However, firms registered with NSIC etc., are exempted from submitting EMD provided such registration includes the item(s) they are offering are manufactured by them and not for selling products manufactured by other companies.
4. **Processing of Tenders**: The concerned officer/officers will evaluate and process the tenders as done in the conventional tenders and will communicate the decision to the bidder online.
5. **Price Bid Opening**: The Price Bids of only technically qualified bidders (whose bids satisfy the prescribed technical specifications/parameters and have also submitted all requisitioned documents & EMD) will be opened online at the specified date & time and will subsequently be evaluated to determine the lowest bidder. The result will be displayed on the: [www.jktenders.gov.in](http://www.jktenders.gov.in). which can be seen by all the bidders who participated in the tenders.



6. **Payment of Performance Security**: The successful tenderer shall furnish a Bank Guarantee/FDR of the value of 05% of the basic cost of the item for the period of warranty/guarantee from a nationalized bank to ensure the satisfactory performance of item supplied. The performance guarantee is to be submitted at the time of installation / demonstration of equipments. In case the performance of the item is not found satisfactory, the amount of Performance Security will be forfeited & credited in university account.
7. **Participation of Bidders at the time of opening of bids**: Bidders have two options to participate in tendering process at the time of opening of Bids:
  - (i). Bidders can come at the place of opening of bids (electronically) as done in the conventional tender process.
  - (ii). Bidders can visualize the process online.
8. **Financial Rules for e-procurement**: GFR-2017 shall be applicable to the e-procurement system for purchase of equipment/goods etc mentioned in the tender document.

**Chief Coordinator  
CPEPA, Department of Botany  
University of Kashmir, Srinagar-190006  
Jammu & Kashmir, India**

## **TERMS AND CONDITIONS**

Procedure for submission of bids: The bidders who are desirous of participating in 'e'- procurement shall submit their offers in two bid format, namely **Technical Bid and Financial Bid** . The Technical and Financial bids in the standard formats prescribed in the Tender documents, displayed at: [www.jktenders.gov.in](http://www.jktenders.gov.in). The bidder should upload the scanned copies of all the relevant certificates, documents etc. after page-numbering all documents and tender document and prepare an index thereof in the: [www.jktenders.gov.in](http://www.jktenders.gov.in).in support of their price bids. The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity and copies thereof may also be submitted in the office of the **Chief Coordinator, CPEPA, Department of Botany, University of Kashmir, Srinagar-190006, Jammu & Kashmir, India** along with original EMD. However, documents of the bidders downloaded online or requisitioned subsequently only will form the basis for deciding the tender.

1. Manufacturers (OEMs) or their Authorized Distributors/dealer only should submit their bids.
2. **ALTERATION IN THE SPECIFICATION.**
  - (i) The specifications mentioned in the tender must not be altered by the Suppliers.
3. **INCOMPLETE TENDERS**
4. The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information/documents, as asked for in the NIT, or submission of a bid not substantially responsive to the NIT in every respect, will be at the Bidder's risk and may result in rejection of its bid.
5. **CANCELLATION OF TENDER/ CONTRACT/ IN PART OR IN FULL IN CASE OF DEFAULT IN CONTRACT/SUPPLY:**

If the Supplier, in the opinion of the Institute, fails or neglects to comply with any of the terms & conditions forming, part of the order issued, the Head of institute shall, without prejudice to any other right or remedies under the contract, have the right to cancel the contract /order by giving 15 days notice in writing to the Suppliers/firms without being liable to pay compensation for such cancellation.
6. Tender shall be uploaded as per guidelines indicated for e-procurement solution.
7. Demonstration of equipments has to be arranged by the suppliers, if desired by the institute.
8. **The quotation should be valid for a period of 120 days from the date of opening of the technical bid.**
9. Rates are to be quoted in INR (Rupee terms) wherever applicable and any revision thereof is not allowed after the tenders have been opened.
10. The delivery period should be clearly mentioned against each item, incase, the items are not readily available, ex-stock offer will be preferred.

11. Rates should be quoted F.O.R Institution including all Taxes and Duties namely GST/Custom Duty etc (against Custom Duty Exemption Certificate) and other should be mentioned clearly. Also mention price of optional accessories separately wherever required.
12. Consignment will not be insured at the Institute/University Cost.
13. **Bidder, if is not the Original Equipment Manufacturer (OEM), must submit OEM's or their Distributor's Authorization to quote/sell the product(s).** Preference will be given to quotation pertaining to indigenous products. However, where suitable substitutes are not available and item need to be imported the following clarification/information should be given.
  - Whether the item will be imported by the intended tenderers against its own import license or university will have to provide Custom Duty Exemption Certificate (CDEC).
  - Name and address of the foreign supplier, make & model of the offered product and authorization to sell from OEM or their Distributor/Authorized Chanel Partner.
  - Delivery period including information about mode of dispatch and possible duration (after dispatch) for receipt of item at the port.
  - Whether the item required any special preparation for installation. In case yes, full details should be given regarding operation maintenance of the items.
  - In case of costly/sophisticated items whether the tenderers will arrange any special training regarding operation / maintenance of the items.
  - Nature of assurance for the supply of spares after the warranty period.

#### **14. Terms of Payment and Conditions**

**(A) For Indigenous/Indian equipments/stores on DDP (Delivered Duty Paid) Destination basis:**

80% of the total payment shall be released on submission of proof of delivery of complete equipments/stores (stores/consignee receipt), inspection report and on certification of satisfactory installation of the equipment at the consignee's premises and after "ensuring verification of the Performance Security" @ 5% of the Purchase Order value.

Balance 20% of the payment shall be released upon successful test run of the equipment and after ensuring that already furnished Performance Security is valid for period of warranty/guarantee.

**(B) For Imported Equipments/Stores:**

For Foreign/Principal suppliers of equipments/stores:- For payment made through Letter of Credit (L/C). An irrevocable letter of credit

(L/C) for 100% of the value of the imported equipments/stores (excluding the value of the Indigenous/Indian equipments/stores, if any) shall be established on submission of the acknowledgement of the order by the successful bidder stating the country of origin and port of shipment, submission of Performance Security @ 5% of the Purchase Order value, four copies of the Proforma invoice and confirmed Letter of Credit (LC) opening details.

It shall be the responsibility of the bidder to ensure that all the requisite documents are provided to the purchaser including the Performance Security in original for appropriate denomination and period on priority basis, so as to ensure opening of LC on time.

Out of this, 80% of the value of the imported equipments/stores will be paid against inspection certificate (where applicable) and shipping documents to the Principal through L/C. Balance 20% will be released within 30 days after due certification by the Purchaser/Institute for successful commissioning of the equipments at the premises and also, after ensuring that the furnished Performance Security is valid for the period of warranty/guarantee.

### **C. Price Fall Clause**

If at any time prior to delivery of the equipments/stores, the bidder/supplier reduces the sale price of such equipments stores as covered under this tender enquiry, to any organization (including Central/State/Deemed University) at price lower than the price quoted under this contract, he shall forth with reduce the price payable under this tender for the equipments/stores being supplied after the date of coming into force of such reduction, the price of equipments/stores shall stand corresponding reduced.

15. In the event of the item(s) being imported product(s), Custom Duty Exemption Certificate (CDEC) will be issued by the University on the written request of the supplier; who, in turn, will furnish copies of relevant Customs Related Documents namely Airways Bill, Packing List, TR-6 challan etc. along with Bill/Invoice.
16. Conditional quotations and/or incomplete quotations in any respect will be rejected.
17. In case you cannot quote for one or more of the items asked for in the tender the word "NOT QUOTED" (in the rate column) should be indicated.
18. The specification of the item quoted by the firm should confirm to the University specifications. Confirmation, in this respect should be specifically mentioned in the tender. Where the tenderer feels that the specification of the item not fully given or differ, from the specification of the item mentioned by the university, the exact specification of such

- item in a separate deviation sheet should be attached with the tender indicating the item quoted.
19. The Firm is required to link the University specifications with catalogues & leaflets/literature and also **mention Make and the Model for each item**. Detailed features, for compliance of specification should be provided on specification sheet & appropriate reference i.e. page no. & para of literature, leaflet wherefrom the relevant information has been checked, should be indicated.
  20. EARNEST MONEY:- EMD should be attached with the technical bid. The EMD shall be in the form of the **BG/Fixed Deposit Receipt/DD** of a scheduled bank issued in favour of **Chief Coordinator, CPEPA, Department of Botany, University of Kashmir, Srinagar-190006, Jammu & Kashmir, India**. Zerox copy thereof is to be scanned and uploaded along with the bid, and the original instruments shall be sent to **Chief Coordinator, CPEPA, Department of Botany, University of Kashmir, Srinagar-190006, Jammu & Kashmir, India** so as to reach before the date of closing of the bids. Failure to furnish the original instrument before the closing of the bid, will entail rejection of bid and blacklisting. **If the tenderer after acceptance of the tender refused to take up the purchase order, his Earnest Money will be forfeited**. Any tender received without / less Earnest Money deposit shall be summarily rejected.
  21. The Purchase Order/Contract will be awarded to the successful Bidder whose bid has been determined to be responsive and has been determined to be the lowest evaluated bid, provided further the Bidder is determined to be qualified to execute the Order/Contract satisfactorily.
  22. The Competent Authority reserves the right to reject any or all the tenders and annul the bidding process at any time prior to award of Contract, without assigning any reason, without thereby incurring any liability to the affected Bidder or Bidders, and his decision will be final.
  23. The supplies shall have to be made within the period specified in the purchase order failing which the order shall be cancelled and the Earnest Money will be forfeited. However, in exceptional circumstance and, on written request, from the supplier/tenderer, extension of date for supply of the material will be considered. Extension in supply period is at the sole discretion of the competent authority.
  24. Service manuals, wherever available/ required, should be provided along-with the Equipments.
  25. The University reserves the right at the time of award of PO/Contract to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
  26. In the case of purchase of many items against one tender, which are not inter-dependent or where compatibility is not a consideration, comparison would be made on the basis of prices quoted by the firms for identifying the lowest quoting for each item.
  27. WARRANTY: **All products must have a minimum of One Year Warranty**. A Warranty Certificate should invariably be supplied along

with the item at the time of delivery. If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the supplier shall rectify the defects, errors or omissions by repair or by partial or complete replacement on free of cost basis.

28. The Competent Authority reserves the right to levy liquidated damages up to 2% of the value of the order for delayed supply. If the supply is delayed beyond the extended period, the University reserves the right even to cancel the order and forfeit the EMD of the firm/ tenderer.
29. PERFORMANCE SECURITY DEPOSIT:- The successful tenderer shall furnish Performance Security Deposit of the value of 05% of the basic cost of the item in the shape of Bank Guarantee/FDR etc. from a nationalized bank pledged to **Chief Coordinator, CPEPA, Department of Botany, University of Kashmir, Srinagar-190006, Jammu & Kashmir, India** for the warrantee/guarantee period to ensure the satisfactory performance of item supplied. The performance guarantee is to be submitted at the time of installation / demonstration of equipments. In case the performance of the item is not found satisfactory and/or the Supplier fails to complete its obligation under the contract/purchase order, the amount of Performance Security will be credited in University account.
30. DEFAULT: In the event of default and unsatisfactory service of the contractor/Supplier firm, the University of Kashmir will be at liberty to repair/get the item serviced from other party at the cost of supplier/ contractor/ tenderer.
31. In case of software items, the suppliers should ensure that:-  
Legal software is supplied in original sealed pouches / P. K. T.  
A license agreement is enclosed with it.  
A registration card is available for software.
32. FAILURE AND TERMINATION: - If the Contractor / Supplier fails to deliver the stores or any installment thereof within the period fixed for such delivery or at any time repudiates the contract before the expiry of such period, University of Kashmir may without prejudice to the right of the purchaser recover damages for breach of the contract.
33. The technical & financial bids of only those bidders will be opened who fulfill the eligibility criteria and whose documents are found in order. If any of the date earmarked for opening of technical or financial bids happens to be a holiday, the bids will be opened on the very next working day.
34. Notwithstanding the provisions relating to extension of time, penalty and cancellation of tender/contract for default, the vendor shall not be liable for forfeiture of its performance security/ liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure (i.e. an event or situation beyond the control of the vendor that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the vendor; such as wars or revolutions, fires, floods,

epidemics, quarantine restrictions and freight embargoes etc.). If the performance in whole or in part or any obligation under the contract is prevented or delayed by any reason of force-majeure for a period exceeding 60 days, either party may at its option terminate the contract by sending a written notice without any financial repercussions on either side.

35. The bidder has to submit an undertaking in firm letter pad that it has not been blacklisted by any Govt depts./Instt/Autonomous body.
36. Proof of GST Registration No and VAT Return copy or any other relevant document for last three financial years since the date of tender.
37. PAN No ( Copy of PAN No Attached)
38. P.Os Copies/rate contract having executed similar items/order copy of last 3 financial years date of tender.
39. Authorization Certificate from Original Equipment Manufacturer (OEM) or their Distributor/dealer to quote/sell the product, in case the Bidder is not the OEM.
40. **Arbitration.** All disputes or differences arising out of or in connection with the tender shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Supply/Installation/performance, which cannot be settled amicably, may be resolved through arbitration. In case of arbitration with the firm on any issue, the final decision would be of Chief Coordinator CPEPA/Dean Research, University of Kashmir. The arbitration will be governed by following:-
  - All disputes or differences arising out of or in connection with the contract including the one connected with the validity of the contract or any part thereof shall be settled by bilateral discussions.
  - Any dispute, disagreement arising out of or relating to this contract or relating to construction or performance (except as to any matter the decision or determination whereof is provided for by these conditions), which cannot be settled amicably, shall within sixty (60) days or such longer period as may be mutually agreed upon, from the date on which either party informs the other in writing by a notice that such dispute, disagreement or question exists, will be referred to a sole Arbitrator.
  - Within sixty (60) days of the receipt of the said notice, an arbitrator shall be nominated in writing by the authority agreed upon by the parties.
  - The sole Arbitrator shall have its seat in Srinagar or such other place in the state as may be mutually agreed to between the parties.
  - The arbitration proceedings shall be conducted under the J&K Arbitration and Conciliation Act, 1996 and the award of such Arbitration Tribunal shall be enforceable in Srinagar.
  - Each party shall have to bear its own cost of preparing and presenting its case. The cost of arbitration including the fees and expenses shall be shared equally by the parties, unless otherwise awarded by the sole arbitrator.
  - The parties shall continue to perform their respective obligations under

this contract during the pendency of the arbitration proceedings except in so far as such obligations are the subject matter of the said arbitration proceedings.

**(Note:** In the event of the parties deciding to refer the dispute/s for adjudication to an Arbitral Tribunal, then one arbitrator will be appointed by each party).

**Chief Coordinator  
CPEPA, Department of Botany  
University of Kashmir, Srinagar-190006  
Jammu & Kashmir, India**



<b>EMD Equipment Details</b>		
<b>S.NO.</b>	<b>Description of Equipment</b>	<b>EMD in INR</b>
1.	Cooling Microcentrifuge	Rs. 8000.00
2.	Mini Spin	Rs. 3000.00
3.	Gel DOC with chemiluminiscent imaging	Rs. 20000.00
4.	Carbon dioxide Incubator	Rs. 11000.00
5.	Carbon dioxide cylinders	Rs. 2000.00
6.	GC-MS	Rs. 130000.00
7.	Biosafety Level-II Cabinets	Rs. 10000.00
8.	Deep Freezer (-80)	Rs. 8000.00
9.	Microplate Reader	Rs. 8000.00
10.	UV/Visible Spectrophotometer	Rs. 6000.00
11.	vetScan Biochemistry Analyser	Rs. 40000.00
12.	Growth Chamber	Rs. 32000.00
13.	Line Quantum Sensor	Rs. 12000.00
14.	Canopy analyser	Rs. 18000.00
15.	Ecosounder	Rs. 14000.00
16.	Qubit Flurometer	Rs. 2000.00
17.	Liquid Nitrogen Tank	Rs. 14000.00
18.	Shaking incubator	Rs. 40000.00

CHECK LIST OF DOCUMENTS TO BE SENT WITH TECHNICAL BID.

S.No.	Particulars of documents	Page no.	No. of pages
1.	Proof of EMD (mention amount with instrument number and date)		
2.	Proof of PAN no. (mention no.....)		
3.	Proof of GST Registration No and VAT Return copy		
4.	Brochure/Leaflets/Technical Information, including Make & Model, Imported/Indian of the item(s)		
5.	UNDERTAKING as per format given in the Tender Document, duly signed.		
6.	Technical specifications, terms & conditions and delivery period etc. to be submitted on firm's letter head		
7.	Warranty Certificate from manufacturer or authorized dealer of manufacturer		
8.	P.Os Copies having executed similar items i.e equipment/order copy only With last 3 financial years date of tender.( minimum one purchase order copy Per financial year )		
9.	Authorization Certificate from Original Equipment Manufacturer (OEM) or their Distributor to quote/sell the product, in case the Bidder is not the OEM		
10.	The bidder has to submit an undertaking in firm letter pad that it has not been blacklisted by any Govt eptt./Instt/Autonomous body.		

Note: All copies of above documents should be duly signed and stamped by the tenderer before uploading.

Signature of tenderer:.....

Name: .....

Name of firm: .....

Telephone No.....

**Pagination must be completed properly**