



**Sher-e-Kashmir**  
**University of Agricultural Sciences & Technology of Jammu**  
**Chatha, Jammu (J&K)- 180009**

**Notice Inviting e-tender**

On behalf of SKUAST-Jammu, tenders are hereby invited through e-tendering mode from the manufacturers, reputed and authorized distributors/ dealers/suppliers for purchase of Lab. Equipment as per specifications given in Annexure-I

Item No.	Name of the item with brief description	Qty.	Earnest Money Deposit (CDR/FDR)	Cost of Tender Document (in Rs.)
1.	Spectroradiometer 350 to 2500 nm wavelength (Specifications at Annexure I)	01	Rs 1,90,000/-	Rs 1000/-

1. The Bidding documents/NIT can be downloaded from the website <http://jktenders.gov.in> from 06-02-2025 (09:00 AM) to 19-02-2025 Up to 4:00 P.M. Bid document contain qualifying criteria for bidder, specifications, bill of quantities, conditions and other details.
2. The bids shall be deposited in electronic format on the website <http://jktenders.gov.in> from 06-02-2025 (10:00 AM) to 19-02-2025 Up to 5:00 P.M. The technical bids received will be opened on or after 20-02-2025 at 11:00 A.M. online. Financial bids of only those bidders will be opened online who are found technically responsive by the evaluation committee.

**Pre-eligibility/Technical Conditions:**

Pre-eligibility/Technical bid which should contain the following documents:

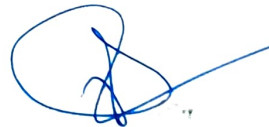
- i. Copy of GST certificate.
- ii. Copy of PAN/TIN Card of the firm/ Authorized Dealer.
- iii. Undertaking of not being blacklisted by any Govt. Agency/ department.
- iv. User list with at least 20 users in India (Central / State Govt Organization / PSU including government funded universities) of the offered model or similar model from the same OEM must be furnished with Contact name & address with mobile no./email.
- v. Certificate for successful completion of similar nature of work at any other organization.
- vi. Bank Details on letter head along with cancelled cheque.
- vii. Offers should be accompanied by a DD of Rs.1000/- (non-refundable) in favour of "**Comptroller, SKUAST-Jammu**" payable at Jammu towards the Tender fee.
- viii. EMD in the shape of CDR/FDR payable to Comptroller, SKUAST-Jammu.
- ix. Minimum Average Annual Turnover of the bidder (For 3 Years): **Rs. 40 Lakh (s)**
- x. OEM Average Turnover (Last 3 Years): **Rs. 350 lakhs**
- xi. OEM Authorization OEM authorization to be provided.
- xii. Years of Past Experience Required for same/similar service: **3 Year (s)**

## Terms & Conditions

1. No tender without earnest money in the shape of CDR/FDR shall be entertained. The CDR/FDR of tenderers shall be released within one month after the purchase process is finalized.
2. Conditional tenders shall be rejected out rightly.
3. Technical and Financial Bids should be in separate sealed envelopes.
4. The envelop in which tender is submitted must be superscribed as “**Procurement of Spectroradiometer**”.
5. The specifications of the Laboratory Equipment should conform to the highest standards.
6. Tenderers must state categorically whether or not their offer is exact to tendered specifications and indicate deviations, if any, failing which their offer will be ignored.
7. Tenderers shall enumerate the operational experience in similar environment of the equipment offered along with the names, addresses and other references of user’s installations.
8. The competent authority i.e., SKUAST-Jammu reserves the right to revise or alter the specifications of the equipment before the acceptance of the tender.
9. Late, delayed and incomplete tenders and amendments and additions to the tender after opening of the same will not be accepted.
10. The tenderers should include in their tender, provision for tools and initial stock of maintenance spares as are essential for proper operation and maintenance of the equipment.
11. The successful tenderer shall be responsible for installation of the equipment at destination sites and for making it fully operational. Scope of Supply includes Installation, Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any); The equipment should be complete in all respects/components that are required for it to function.
12. The tenderers must provide complete details of needs of the equipment which SKUAST-J should arrange before the arrival of the equipment in SKUAST-J to ensure its early installation and smooth operation thereafter.
13. The tenderer shall be fully responsible for the manufacture’s warranty in respect of proper design, quality and workmanship of the equipment (s) accessories etc. covered by the tender for the warranty period from the date of satisfactory installation/commissioning of the system.
14. The apparatus is to be installed at SKUAST Jammu, Chatha premises.
15. The tenderer should enclose a certificate with the tender stating that
  - i) The equipment is of the latest technology.
  - ii) The equipment shall be promptly and properly serviced by them whenever desired and such service will remain available to SKUAST-J for at least 05 years from the date of its installation.
  - iii) IQ, OQ and PQ/Quality certification
16. Prices quoted by the bidder should be inclusive of transit insurance, freight, installation and commissioning at destination sites. Discount, if any, should be shown separately. Additional charges on account of Excise Duty, GST, VAT, Entry Tax or any other charge / levy must be included in the quote.
17. The offer should be valid for a period of 180 days from the specified date of opening of the tenders.
18. Payment will be released only after **satisfactory** installation and commissioning of the equipment. Performance Bank Guarantee will be at 5%; and valid up to 2 months after the warranty period.



19. The company must offer the model fulfilling the above specifications. Technical documentation of the offered model should be enclosed. Make and model to be clearly indicated. The offered product and its technical documentation must be available on the Manufacturer's / its Authorized dealer's website.
20. Proof of supplying same equipment supplied to government research institutes with in India.
21. The Tenders must reach in the office of Prof. Vikas Sharma, Division of Soil Science & Agricultural Chemistry the, **FoA, SKUAST-Jammu, Main Campus, Chatha, Jammu-180009 (UT of J&K)** not later than the specified time as stipulated in the NIT, if the date on which the tenders are to be received/opened is declared as a public holiday, the tenders shall be received and opened on the next working day.
22. The tenderers and their authorized representatives are at liberty to be present at the time of opening of the tenders.
23. The competent authority of SKUAST-J does not bind itself/himself to accept the lowest or any tender & reserve the right of accepting the whole or any part of the tender or portion of the quantity offered and the bidders shall supply the same at the rate quoted.
24. The equipment to be supplied shall not pass to the SKUAST-J unless and until the equipment has been delivered, installed / commissioned and accepted, in accordance with the conditions of the contract and to the entire satisfaction of the concerned authorities of SKUAST-J.
25. The University shall not be responsible for any theft or loss sustained by the tenderer during the period of commissioning/installation. In the event of injury or mishap or illness to any of his worker, the University will not be responsible for any compensation.
26. The tenderer shall be fully responsible for any damage to the University property/ furniture, if any provided to them by the University.
27. **IMPORTED PRODUCTS:** In case of imported products, OEM or Authorized Seller/distributor of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.
28. All questions, disputes, or difference arising under and out of, in connection with the contract shall be subject to the Courts at Jammu (J&K).



**Head**

Division of Soil Science & Agricultural Chemistry

**No: AUJ/SS/HADP.19/24-25/282-286**

**Date: 4/2/25**

Copy to:

- Director Research, SKUAST-J, Chatha for kind information.
- Dean, Faculty of Agriculture SKUAST-J, Chatha for kind information.
- Estates Officer, SKUAST-J, Chatha with request to upload the tender on the website [www.jktenders.gov.in](http://www.jktenders.gov.in)
- SVC for timely Publishing of e-NIT in two newspapers for wide publicity.
- Incharge, Data Centre, SKUAST-Jammu for uploading on University Website



## TECHNICAL SPECIFICATION

### Spectroradiometer (350 to 2500 nm wavelength along with suitable accessories)

#### (A) Spectroradiometer specifications

Technical Parameters	Specifications
Wavelength range	350-2500 nm
Channels	2000 or higher
Resolution	<b>3 nm</b> or less in visible near infrared (VNIR) region at 700 nm; <b>10 nm</b> or less in shortwave infrared (SWIR) region at 1400 & 2100 nm
Bandwidth (Spectral sampling)	1.5 nm or less for 350-2500 nm
Stray light	0.02% or less in visible near infrared (VNIR) region; 0.01% or less in Shortwave infrared (SWIR) region
Wavelength Reproducibility	0.1 nm or better
Wavelength accuracy	+/- 1 nm or better
Input path configuration	Standard 1.5 meter <b>Permanently connected Rugged fibre optic cable</b> input to channel directly the light from the target to the instrument along with a handheld grip.
Standard field of view (FOV)	Standard 25° FOV without changing the fibre optic cable with radiometric calibration.
Detectors	<b>VNIR detector:</b> silicon photodiode array for the region 350-1000 nm  <b>SWIR1 detector:</b> Scanning grating and fixed single element indium gallium arsenide (InGaAs) thermoelectrically (TE) cooled detector for the region 1001-1800 nm  <b>SWIR2 detector:</b> Scanning grating and fixed single element InGaAs TE cooled detector for the region 1800-2500 nm.
Communication Interface	10/100 Mbps Ethernet interface and High-speed Wireless LAN interface
Automatic mode operation	Instrument should be able to take continuous spectral measurement automatically for a definite time period set by user
Diagnostics features	<ul style="list-style-type: none"> <li>• Battery power indicator</li> <li>• Run time meter</li> <li>• Detectors stability indicator</li> <li>• Wireless status Indicator</li> <li>• Signal saturation warning</li> </ul> Fibre optic cable checker
Battery with charger	12 volts battery with minimum 3 hours run-time with suitable charger.

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Input power	90-240 v AC for laboratory use
Temperature range	0 to 40 °C operating range -15 to 45 °C storage range
Instrument controller device	Suitable instrument controller laptop with Windows OS preloaded with software for data acquisition and preliminary data processing.
Data acquisition and data processing software	Spectral acquisition software and provision to save spectrum along with GPS co-ordinates from an external GPS along with the spectrum data.  Direct Interface with software like ENVI and data processing software.  Acquisition software along with online classification and predictions with feature to develop spectral libraries.
Warranty	Three Years
Installation and Hands-on-training at site	Complete Installation for making it functional; hands on training Will also be given by the supplier

### (B) Accessories

Technical Parameters	Specifications
Reference panels (for Reflectance measurements)	Calibrated white diffuse white reference panel  a) Reflective Area: 5X5 Inches. b) Nominal reflectance value: 99% c) Spectral range: 350 to 2500 nm d) Calibration: Every 50 nm and traceable to the National Institute of Standards and Technology (NIST)
Light source (for Lab Applications)	Tungsten Quartz Halogen light source <ul style="list-style-type: none"> <li>• Bulb type: Quartz-tungsten-halogen</li> <li>• Spectral range: 350-2500 nm</li> <li>• Voltage and Power: 13 V, 57 Watt</li> <li>• Life (hours): 1340</li> <li>• Correlated color temperature/ candle power: 3100 K/14550 cp</li> <li>• Lamp beam angle: 12 Degrees</li> <li>• Cooling: Fan attachment</li> <li>• Weight: 400 g</li> <li>• AC power adaptor: Input: 100/240~, 50/60 Hz, 1.5 Amp / DC power output: 15 V/70Watt</li> </ul> Suitable tripods to mount the light source and fiberoptic cable holder.
Probe and lighting: including external power cable for powering (for Contact Reflectance Measurements)	<b>Contact probe</b>  Length: 10 inches length  Light source: halogen bulb with 2900 K Temp.  Spot size: 10 mm



**Head/F1, HADP 19**

Division of Soil Science & Agricultural Chemistry

