



Ch. Bansi Lal University, Bhiwani

(A State University established under Haryana Act No. 25 of 2014)

Ref. No. CBLU/GEO/2026/

Dated:

To

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Subject: NIQ for Weather Observatory instruments required for setting-up of Climatology Lab of the Department of Geography , CBLU, Bhiwan

Sr. No.	Name of Item/instrument	Quantity	Technical Specifications
1.	Double Stevenson Screen	01	- Rectangular wooden box provided with a door in front (General Size: 1325*315*412 mm with 5% or max. 10 mm margin). - Wood: Seasoned Teak Wood & Deodhar Wood of best quality and painted with non-hygroscopic zinc oxide paint. - All four sides should be double louvered. - The roof should be double and floor should be consisting of over lapping board's separately. - The front door is hanged at the bottom and provided with two brass chains. - The screen should be supported on 4 legs. - The screen should be suitable for fixing thermograph and hygrograph. - With M.S. Angle Stand: For Screen. Warranty: At least 01 Year.
2.	Dry Bulb Thermometer	02	- Range: -35° C to +55° C - Standards: As per IS Standards Warranty: At least 01 Year.
3.	Wet Bulb Thermometer	02	- Range: -35° to +55° C - Standard: As per IS standards Warranty: At least 01 Year
4.	Grass Minimum Thermometer	02	- Range: -40° C to +50° C - Standards: As per IS Standards Warranty: At least 01 Year.

5.	Soil Thermometer	02	• Temperature Range: -20° C to +50° C • Depth: 50& 100 cm • With Iron Stand • Mercury in glass: -35° C to +50° C at depth of 5,10,20 cm. Warranty: At least 01 Year.
6.	Wind Vane - For Wind direction	01	• Standards: As per IS Standards. • Type: Mechanical • Aluminium: Base, mounting ring for direction arms, collar arm, support and horizontal arm. • Aluminium alloy: fin and beating housing cap • Aluminium casting: support tube • Brass: spindle and cap nut • Galvanised steel: main support and direction letter • Mild steel: balance weight and direction letter • Tin bronze: bearing brush • Accuracy: it shall make not less than 5 and not more than ten complete revolutions • The vane and 8 direction rods are supported on suitable pipe treated in to a base casting four direction arms, carry the letters N, E, S & W Warranty: At least 01 Year.
7.	Cup Counter Anemometer - For Wind speed	01	• Standards: As per IS Standard. • Wind Speed Measurement Unit: Kilometer (KM). • Cup of Anemometer: Should be made from 0.71 mm thick copper Sheet, body & lid should be made from aluminium • Center Spindle: Should be made stainless steel • Wheel: Should be of Hard Brass Counter is a non-reset direct drive revolution counter adding one count for each one-tenth revolution • Should have five figures and read up to 9999.9 km Material: • Cup: Copper Sheet/Aluminium 0.71 mm thick • Cup Arm and Socket: Aluminium Alloy • Body and Lid: Cast Aluminium/Brass • Centre Spindle: Stainless Steel Rod • Worm: Manganese Bronze Alloy • Worm Wheel: Hard Brass • Other Parts: Made from Non-Rusting Material • Warranty: At least 01 Year.

8.	Hair Hygograph	01	- Standards: As per IS Standard. - Range: 0 to 100% RH. - Accuracy: Above 20%, +/- 5% RH. - Recording Resolution: Approx. 1% - Maximum indication error: +/- 3% - Drum diameter: 93.3 mm - Drum height: 90.0 mm - Drum rotation time: - Daily: 25.5 hours - Weekly: 7 day 10 hrs. - Housing Material: Aluminium/M.S. Powder Coated - Recording Mechanism: Quartz Clock Mechanism Warranty: At least 01 Year
9.	Barometer	01	- Standards: As per IS Standards. - Androide 85mm Diameter - Accuracy: +/- 0.7mb (+/- 0.02 in Hg) - Graduation: 0.5mb and 0.01 in Hg - Dial: Flat white finish; diameter 5.1" - Units on dial: mb and inches of mercury, or mb - Housing diameter: 6.5", depth: 3.3" - Weight: 1.6 pounds - Measuring range: 890 to 1050 mb = 26.30" to 31.00" - For use at elevations of 0 to 2600 feet - Precision movement with 5 aneroid capsules Warranty: At least 01 Year
10.	Rain Gauge (Traditional/Ordinary)	01	- Standards: As per IS standard. - Made: From FRP with suitable locking arrangement should be provided for locking the collector with base. - Diameter of Rim: Approx. 159-160 mm - Rainfall Capacity: Approx. 200 cm² - Along with Glass Rain Measuring Cylinder for Rain-gauge. - Collector & Base: Fiber Glass Reinforced plastic is used for the main body of collector & base. Light Weight, Non-Corrosive, Low Thermal Conductivity - Rim of Collector: The material for rim of collector should be Gunmetal or Aluminium - Locking Ring: The collector & receiver should be locked together by Aluminium - Measuring Cylinder (Glass): Rain measuring cylinder of 20 mm capacity suitable for use with precipitation gauges having collector area

			200 cm² is supplied. Cylinder should be made from Borosilicate Glass. • Warranty: At least 01 Year.
11.	Tipping Bucket Rain Gauge with Telemetric Data Logger	01	• Standards: As per IS standard. • Sensor: Tipping Bucket Rain Gauge • Resolution: 0.5 mm • Capacity: Unlimited • Sensing: Normally open magnetic reed Data Logger • Standalone GPRS Data Logger for remote data acquisition for outdoor installation (IP 65) • Data may be sent via SMS or GPRS to server • User settable time interval • Overall height from base to collector top: Approx. 675 mm • Internal diameter of gunmetal collector ring: • 10 mm range: Approx. 203.4 mm • 25 mm range: Approx. 128.6 mm • Diameter of clock drum: Approx. 93.3 mm • Collector and Base with foundation bolt • Quartz clock recording mechanism with daily clock drum • 100 Recording charts and 15 ml Ink bottle • The recording mechanism should consists of: • Gunmetal float chamber with integral cast rests for fixing it on the base. Float a flat guide strip at the bottom and a rod at the top for holding the ink pointer assembly. • Siphon chamber with two coaxial tubes a conical brass washer, a polished glass disc ad a threaded cap. Brass disc with "V" shaped opening connects the siphon chamber to the float chamber • Recording clock drum with dust proof cover paper clip and nut • Recording ink pen and pen holder • Provided with Quartz type clock drum. (Daily) • Warranty: At least 01 Year.

12.	Thermo-Hygro Graph	01	• Temperature Range: 0° C to 55° C • Humidity Measure: 0-100% RH • The unit should be coated by Quartz Clock Mechanical • Daily Graph should be provided for 24 Hours • Instrument should be supplied with Graph Paper Set etc. Warranty: At least 01 Year
13.	Open Pan Evaporimeter	01	• Standards: As per IS Standard • Made: From approx. 1 mm Copper Sheet • The pan will be supplied with Brass Stilling well, Acrelic measuring Cylinder, Wire Net. Thermometer etc. • Supplied with Wooden Platformetc Complete Set as per IS standard • <u>The Pan Evaporimeter:</u> The Pan Evaporimeter is made from Copper with thickness <u>1.0+0.1mm</u>. The dimension of pan should be 1220 mm +/- 3 mm. the base of Pan is made from single piece of copper/G.I. Sheet. The outer surface of pan is painted with three coats of chlorinated rubber paint and the inner surface tinned or painted uniformly. • <u>The Fixed Point Gauge:</u> The Fixed point gauge is made from brass rod of 10 mm diameter. The stilling well is made from brass tube of 102 mm outside dia with a wall thickness of 3.0+/-0.5 mm and the base of made from cast brass. • <u>The Measuring Cylinder:</u> The Measuring Cylinder is made from clear cast seamless acrylic plastic tubing and the bottom plate of clear acrylic Plastic Sheet. The dimension of the measuring cylinder made from acrylic plastic should be 122 +/- 0.3 mm. • <u>Wire Mesh:</u> The Cover shall consists of a circular M. S. bar frame with cross pieces of bar. This frame is covered with G.I. wire netting. The Cover should properly fit on the outer rim of the pan. • <u>Thermometer:</u> The Thermometer of glass in liquid filled type with range 0° to 50° C is supplied with pan. • <u>Wooden Platform:</u> <u>Rot resistant lumber treated with creosote or other effective wood</u>

			<u>preservatives</u> are used for making platform. The size of platform should be 1225*1225*100 mm. The frame of platform should be made from 11 nos. of wooden planks. • <u>Thermometer clamp:</u> should be of brass Warranty: At least 01 Year
14.	Sunshine Recorder	01	• Standards: As per IS Standard. • The scale of degrees of latitude from -5° through 0° to +/- 45°. • Two Brass sphere • The base of the instrument should be of good quality white marble stone. • The bowl should have a groove of 1 mm inside depth to carry the cards. The card used in the instrument is made from white pasteboard and has a thickness in between 0.43 mm to 0.48 mm. • Three types of cards should be used: Straight, Short and Long Curved • The instrument should be supplied with a set of approx. 400-500 cards. • Warranty: At least 01 Year.

Terms and Conditions:

1. The supplier/firm shall clearly specify all charges, technical specifications, warranty details, delivery schedule, and terms & conditions in the quotation.
2. All applicable rates, GST, taxes, freight, installation, calibration, commissioning, and any other charges must be clearly mentioned in the quotation. No extra payment shall be made for charges not specified therein.
3. The quotations should be quoted as FOR CBLU, Bhiwani.
4. Quotations shall be received from **21/05/2026 to 10/06/2026** in the **Office of the Registrar, New Campus, Chaudhary Bansi Lal University, Prem Nagar, Bhiwani**. Quotations received after the stipulated date and time shall not be considered.
5. Any charge not mentioned explicitly in the quotation shall not be entertained or paid by the University.
6. The quotations must be signed by authorized signatory of the bidding firm/company on each page, along with seal of the firm/company, as the case may be.
7. The supply order(s) shall be executed within the time specified in this regard. However, in case of fierce major reasons beyond control of the supplier, he may make a written request to the Vice Chancellor for grant of extension for delivery period. The written request in this regard should clearly spell out such reason.
8. Quotations should invariably be accompanied by the following certificate: "The terms & conditions of quotation have been read and I/We certify that I/We clearly understand the same and undertake for its compliance".
9. The material should be packed in a strong case so as to avoid any damage, theft or pilferage in the transit, the responsibility shall rest with the supplier.

10. The warranty would start from the date of successful installation of the equipment.
11. As a general policy, the University shall endeavor to release 100% payment after successful supply, installation (where applicable), and satisfactory inspection of the instruments by the Inspection Committee.
12. Acceptance of the supplied weather observatory instruments shall be subject to satisfactory inspection, testing, and verification of specifications by the University's Inspection Committee.
13. The quantity of instruments/items may be increased or decreased as per the requirement of CBLU.
14. The detailed literature/catalogue of the quoted instrument and its accessories should also be attached with the quotation. The specifications claimed by the firm should be clearly mentioned in the literature/catalogue also. Its manual should also be supplied with the equipment.
15. Incomplete quotations such as unsigned, late submitted, conditional, not confirming to the eligibility criteria and technical specification or with any vague term such as 'Extra as applicable', will be considered as rejected.
16. The supplier/firm must have a minimum experience of three years in supplying scientific/weather observatory instruments. Relevant supporting documents/certificates must be enclosed with the quotation.
17. The supplier/firm must submit a notarized affidavit/certificate stating that the firm/organization has not been blacklisted by any Central Government, State Government, PSU, University, Institute, or any other public authority during the last three years.
18. In case the supplier/firm fails to execute the supply order as per the approved rates, specifications, terms, and conditions within the stipulated period, the University reserves the right to take appropriate action, including cancellation of the order, blacklisting/debarring the firm from future business dealings with the University, and any other action deemed fit.
19. The supplier shall ensure that invoices are raised in the name of the consignee with correct GSTIN and other statutory details.
20. All disputes arising out of this tender/quotation shall be subject to the jurisdiction of Bhiwani, Haryana, and the decision of the University authorities shall be final and binding on all parties.



In-Charge
Department of Geography
CBLU, Bhiwani

CC: 1. PA to Registrar, (for kind information of worthy Registrar), CBLU, Bhiwani
2. In-charge Computer Centre, CBLU Bhiwani with a request to upload the NIQ on university website.