A. SPECIFICATIONS FOR TIPPING BUCKET RAIN GAUGE WITH ACCESSORIES

Raingauge:

Maximum rainfall rate: 12.7 cm (5 in.) per hour

Calibration accuracy: ±1.0%

Resolution: 0.01 in.

Operating temperature range: 0° to +50°C Storage temperature range: -20° to +70°C

Environmental rating: Weatherproof

Housing: 15.24cm (6-in.) aluminum bucket

Tipping bucket mechanism: Stainless steel shaft with brass bearings

Logger:

Time stamp: Resolution 1.0 second

Time accuracy: ± 1 minute per month at 25°C

Operating range: -20° to 70°C **Battery:** 1 year typical use

Memory: 25K to 30K data points when recording rain

Materials: Polypropylene case; stainless steel screws; Buna-N o-ring; PVC cable insulation

Mounting material: Hose Clamps and Screws

Accessories:

i. Pendant Base Station BASE-U-1

ii. HOBOware PRO v.3.x for PC & Mac

Note:

- i. Prices for sensor and abovementioned accessories should be mentioned separately.
- ii. All the sensors should be able to operate at optimal efficiency and should withstand harsh environmental conditions (Temperature: -40°C to 60°C and rainfall > 100 mm/day). The System should be sufficiently sealed to avoid ingress of dust, rain and moisture.
- iii. Prices should be F.O.R to destination (i.e. Nainital/Sikkim/Srinagar) inclusive of delivery, training, complete integration and Installation of the system.
- iv. However, commissioning charges including necessary civil work required for the system should be mentioned separately.
- v. Warranty: minimum 1 year onsite warranty

B. SPECIFICATIONS FOR TEMPERATURE LOGGER:

Temperature Range: -40°C to 70°C (-40°F to 158°F)

Accuracy: ± 0.21°C from 0°C to 50°C (±0.38°F from 32°F to 122°F

Resolution: 0.02°C at 25°C (0.04°F at 77°F)

Relative Humidity Range: 0-100% RH, -40°C to 70°C (-40 to 158 F)

Accuracy: ± 0.21°C from 0°C to 50°C (±0.38°F from 32°F to 122°F

Resolution: 0.02°C at 25°C (0.04°F at 77°F)

Data Storage Capacity 21,000 Temperature and RH Readings

Sampling Rate 1 Second to 18 Hours

Real-time Clock ±1 Min/Month 0°C to 50°C (-32°F to 122°F)

Response Time 40 Minutes (Typical to 90% in Air Moving 1 m/sec)

Stability (Drift) <0.1°C (0.18°f) and <1% per Year Typical

Battery 1/2 AA 3.6 Volt Lithium Battery, User-Replaceable, 3 years

Software Compatibility HOBOware PRO Version 3.5+ Windows: Windows 10, 8.1, 8 and 7

Mac: OS X 10.9.x, 10.10.x and 10.11.x

Materials ASA Styrene Polymer Housing; Modified Hydrophobic

Polyethersulfone Membrane

Standards Compliance NEMA 4 Equivalent

C. SPECIFICATIONS FOR SOLAR RADIATION SHIELD WITH MOUNTING STRUCTURE

Solar Radiation shield with mounting:

i. **Height:** 152 mm (6.0 inches); 165 mm (6.5 inches) with bracket

ii. Width: 210 mm (8.3 inches)

iii. **Depth:** 187 mm (7.4 inches); bracket protrudes an additional 44 mm (1.8 inches) from

shield

Accessories:

i. Clamp Kit for Mounting

ii. Mounting mast/structure

Note:

- i. All the sensors should be able to operate at optimal efficiency and should withstand harsh environmental conditions (Temperature: -40°C to 60°C and rainfall > 100 mm/day). The System should be sufficiently sealed to avoid ingress of dust
- ii. i.e. Nainital/Sikkim/Srinagar) inclusive of delivery, training, complete integration and Installation of the system.
- iii. However, commissioning charges including necessary civil work required for the system should be mentioned separately.
- iv. Warranty: minimum 1 year onsite warranty