



F. No. 39(1)2017-2018/Adm. IV/

Dated : 23.11.2017

Corrigendum

In continuation of this Institute Tender ID : 2017_DARE_269304_1 for inviting on line bids for purchase of various equipments. The specification of the Weather Station (Automatic Weather Station (item at S.No. 3 of the listed item).as mentioned in the tender documents may be corrected to read as revised specification as follows in the tender document before submit the bids.

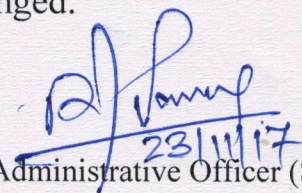
REVISED TECHNICAL SPECIFICATION OF Weather Station (Automatic Weather Station)

S.No.	Particulars	Specifications	Quantity
3.	Data logger		1 Unit
	Analog	Channel Analog data input for 12 or more sensors or as required for the installation of sensors with auto Ranging /compatible to adjust all given sensors with accuracy of measured data/value	
	Data Storage	in built facility to store of 1 GB or more storage or required storage capacity for recording and storing the data of different intervals and storing upto 1 to 6 months data & facility with download the stored data on a flash /USB card	
	Battery & Charging System	Solar panel is required for continuous recharge the batteries. A suitable in-built charge controller having over and under voltage protection should be provided in the DCP. The capacity of the Solar panel should be such that the battery can be charged with 30% to 50% sunshine	
	Environmental Compatibility	Operating & Storing temp. -35°C to 50°C or more; humidity- 10-100%;wind speed - up to 50m/s	
	GPRS	Provision of Data transmission Compatibility by laptop locally via USB/RS232 and remotely using the GPRS modem options	
2.	Sensors		
	Air temperature	Range : -40°C to +70°C, Accuracy : ± 0.2 to 0.3 °C or better (with radiation shield) Resolution : + 0.1 °C Sensor Type : Resistance / Thermistor Response Time : 10 sec or better	
	Relative humidity	Range : 0 to 100% RH Accuracy : ± 1 to 2% or better Resolution : 0.1 or 1% Sensor Type : Capacitive / Solid-state Response Time : 10 sec. or better	
	Rainfall	Range : 0 to 500 mm per hour Accuracy : ± 2 % Resolution : 0.1 to 0.2 mm	

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		Sensor Type : Tipping bucket rain gauge or other suitable sensor	
	Snow depth sensor	Measurement Range: 0.5 to 10 m or more Sensitivity: 0.25 to 0.50 cm Accuracy: ± 1 cm (0.4 in.) or 0.4% of distance to target Time: < 1.0 s	
	Precipitation Sensor	liquid, solid and mixed(snow, rain & mixed) Range:0-1000 mm or more Accuracy: ± 0.1 mm or $\pm 1\%$ of measured value Precipitation sensor with self-emptying collection system.	
	Wind Direction	Sensor: Ultra sonic Range : 0 to 359° Accuracy : ± 2 to 5 or better Resolution : 1°	
	Wind Speed Sensor	Sensor: Ultra sonic Measurement Range : 0 to 50 m/s or more Accuracy : ± 0.2 or 2% or better Resolution : 0.01m/s or suitable as per the model	
	PAR sensor	Spectral Range (50% points): 400 to 700 nm ± 4 nm Sensitivity: 4 to 10 μ V/ μ mol/m ² .s Detector type: Photo-diode	
	Solar radiation	Range : 0 to ~ 1750 W/m ² or better Detector type: Photo-diode or better for higher altitude Resolution: 1 W/m ² Accuracy: 1 W/m ²	
	Soil Temperature and Moisture	Combined Soil Moisture and Temperature measurement sensor Accuracy: $\pm 1\%$ Soil Moisture Measurement Range: 0 to 1 m ³ .m ⁻³ Accuracy : $\pm 0.75^\circ\text{C}$, Soil Temperature Range: -20° to +60°C or better	
3.	Tower/Mast	Galvanised stainless steel material withstand in extreme harsh climate at Himalaya (altitude >5000m), height of tower at 5 to 10 m, tripod- 3/5 m for installation at high altitude with high wind velocity, compatible to install all sensors along with good quality cable and other required accessories and it should withstand at above mention operation environment. The automatic weather station installation and demonstration at Leh.	

The other details of tender document will remain unchanged.


 Asstt. Administrative Officer (S)