

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY**  
**DR. HOMI BHABHA ROAD, PASHAN, PUNE**

16<sup>th</sup> May, 2017

**Sub: Minutes of the Pre-bid meeting relating to the "Supply & Installation of Automatic Rain Gauge with Wind Screen required for CAIPEEX-IV campaign (Tender No. PS/128/47/2016)" held on 16/05/2017 at Pisharoty Hall, at IITM, Pune.**

In response to our tender notice published on various newspapers, MSTC e-procurement web portal, CPP Portal and this Institute's website, representatives of the following prospective bidders / firms / companies were attended the meeting :-

- 1) M/s. OBEL Systems PVT. Ltd., Secunderabad.
- 2) M/s. Raj Instruments, Ahmedabad.

Email queries which received before and during the proceeding of the meeting were also considered by the Committee. The points discussed in the pre-bid meeting are summarized as below :-

**Automatic Rain Gauges**

Representatives of the following two companies / firms attended the meeting while other two companies sent their queries through email / letter correspondence which have been responded by Committee as below :-

**OBEL Systems Pvt. Ltd., Secunderabad**

**1: What should be the data format of recorded rainfall ?**

Response: The data format should mention station ID, Date, Time, Rainfall Amount (hr) and Rainfall Intensity (mm/hr) in columnar format. The same should be stored in .csv format or in text format.

**2. How the data should be transmitted and the frequency ?**

Response: The data should be transmitted by SIM card (of available mobile network) using GSM (updated version). The data logger should transmit recorded data of every 1 minute in specified time intervals decided by the user.

**3. What is the required resolution for rainfall measurement?**

**Response:** As mentioned in the technical specification it is 0.2 mm.

**4. Who will take the responsibility of security e.g. fencing of the ARGs ?**

**Response:** Parties can provide an optional quotation for the same.

**5. Where the instruments are to be delivered ?**

**Response:** IITM, Pune.

**6. If only tipping bucket ARG can be provided ?**

**Response:** Only siphon based ARGs will be accepted.

## Raj Instruments, Ahmedabad

Queries:

### **1. What should be the data format of recorded rainfall ?**

**Response:** The data format should mention station ID, Date, Time, Rainfall Amount (hr) and Rainfall Intensity (mm/hr) in columnar format. The same should be stored in .csv or .text format file.

### **2. What is the mode of communication for transmitting data ?**

**Response:** The data should be transmitted by SIM card (of available mobile network) using GSM (updated version). The data logger should transmit recorded data of every 1 minute in specified time intervals decided by the user.

### **3. If software should be provided ?**

**Response:** Yes, software should be provided for recording data at the server. Life time license with free updates should be provided.

### **4. If server to be provided by the company ?**

**Response:** IITM will provide the computer.

### **5. If USB/Ethernet cable can used in interconnecting PC to data logger?**

**Response:** Yes.

## Responses to queries of companies received via email/letter:

### PHAME Enterprises (Technology):-

#### **A. Data Logger Specification:**

1. The data logger should have Micro SD Drive (plug and play) for data storage of 1 GB capacity:

**Query:** We want to offer a logger, whose internal memory can stores 400,000 records which is record 3+ Years data even the data logged at every five minutes and we don't require a SD card as the download is very quick via the LAN port which is more reliable and no need to interrupt the logger programme and no chance of data file corruption too. Further, this Data Logger is capable to send the field data directly over your Email ID and ftp server through its on-board 3G Latest GSM/GPRS Modem. This send hourly data as .csv file (Logged at desired interval VIZ may be 5 OR 10 OR 15 minutes) as well as daily reports at 09 am (Consist of past 24 Hour data). This logger has capability to auto data recovery i.e. if data reporting has stopped due to non availability of Network then whenever the Network revive it will send all data from last reported data. This data logger can be configured through SMS Text so whenever you need to change the logging and reporting interval you can do from text SMS. It's requested to keep SD Card provision as optional not compulsory.

**Response:** The data logger is preferably to have internal memory (larger memory size is better) to store data as mentioned in the specifications. Micro SD drive (plug and play) is required for storing data externally. The data logger should transmit recorded data of every 1 minute in specified time intervals.

2. Communication serial interface: Female RS-232 interface for logger-to-PC communications:  
**Query:** We want to offer a logger with LAN port, which is fast and reliable and you use any internet browser to setup and download the data (NO SOFTWARE REQUIRED) with Laptop / PC. Kindly consider LAN interface too for logger-to-PC communications.

**Response:** Agreed.

**B. Kindly provide Site Location details for calculation of cost involved in installation.**

**Response:** Initially the ARGs will be installed in/around Solapur, Maharashtra, India. The sites will be identified at a later stage. Depending on IITM's requirement ARGs could be installed anywhere in India.

**Delivery Schedule:** 4-6 weeks After Receipt of Order Request: Kindly consider supply on Lot basis in break up or 06 (Six) months as Manufacturing of wind screen will start after receipt of confirm PO and quantity are 80 numbers, which will helps us to deliver good quality and reliable item essential for rainfall monitoring.

**Response:** We offer 1.5 (One and half) months of time period for delivering the ARGs from the date of PO. Supply in equal Lot basis is agreed, which will be decided by IITM, Pune.

**Sunshine Measurements Pvt. Ltd.**

1) **Wind Screen:** There are different types of wind screens, do you have any type preferred, please give the drawings or photograph of the wind screen.

**Response:** The wind screen may follow WMO standard.

2) **Installation:** Place of installation are not given in the tender. We like to know how far (distance) each station is from Pune or any other city. Is all stations easily accessible by the road or some of them far away from the main road. What is the radius from Pune (distance in Km) to be covered for installing all the rain gauges.

**Response:** Initially the ARGs will be installed in and around Solapur District, Maharashtra.

The ARGs will be installed in villages or towns which are connected to the main road. The ARGs will be installed in grid boxes (size to be decided). The ARG network will be within the radius of 200 km.

On requirement, ARGs may be shifted to any other place in India for installation.

3) Should we collect the instrument for each station from Pune and then proceed to the station or you will make arrangements to deliver the equipments to stations. Any of your persons will accompany our team during installation.

**Response:** IITM will shift the instruments from Pune to Solapur, then to different sites. You may provide a separate quotation for shifting and installation of ARGs from Solapur to various sites.

**Extension of last date of submission of bids:** In order to provide prospective bidders ample time for bidding, the committee extends the last date of submission of the bids by **14<sup>th</sup> June, 2017 up to 1200 hrs.**

The meeting ended with thanks to the Chairman and members.