भारतीय उष्णदेशीय मौसम विज्ञान संस्थान
INDIAN INSTITUTE OF TROPICAL METEOROLOGY
(पृथ्वी विज्ञान मंत्रालय, भारत सरकार का एक स्वायत्त संस्थान)
(An autonomous Institute under the Ministry of Earth Sciences, Govt. of India)
पाषाण, पुणे – 411 008
PASHAN, PUNE - 411008

वैश्विक निविदा सूचना शुद्धिपत्र / CORRIGENDUM TO GLOBAL TENDER NOTICE

निम्नलिखित तालिका में विनिर्दिष्ट समसंख्यक निविदा सूचना द्वारा प्रकाशित विवरण हेतु निविदा प्रस्तुत करने की निर्धारित तारीख को बढ़ाया जा रहा है|

The last date of submission of bids for purchase of "items / description" published vide even number of Tender Notice is extended as tabulated below

क्रम सं. S. N.	निविदा सूचना सं. Tender Notice No.	विवरण/Description	ऑनलाइन बोलियाँ प्रस्तुत करने की बढ़ाई गयी समय सीमा Extended timeline for submission of bids online
01.	**पीएस/125/19/2019 PS/125/19/2019**	**सिलोमीटर की आपूर्ति, स्थापना और कमिशनींग - मात्रा ०4 सेट्स Supply, Installation and Commissioning of "Ceilometer" – Qty 04 Sets.**	28th फरवरी **2020 1500 तक** 28th **February, 2020 1500 hrs.**
उपरोक्त निविदा के लिए तकनीकी बोलियाँ **28**th फरवरी **20**20 को **1530** बजे खोली जाएंगी। **Technical Bids (only) for aforesaid tender will be opened on 28th February, 2020 at 1530 hrs.**			

दिनांक 08 जनवरी, 2020 को हुई निविदा-पूर्व बैठक का अंतिम कार्यवृत्त **भी** नीचे विनिर्दिष्ट वेबसाइट पर उपलब्ध है| अन्य निबंधन एवं शर्तें यथावत रहेंगी। विस्तृत विवरण एवं बोलियों के प्रस्तुतीकरण हेतु कृपया वेबसाइट https://moes.euniwizarde.com देखें। संभावित बोलीदाताओं की जानकारी के लिए, निविदा विवरण भी इस संस्थान की वेबसाइट http://www.tropmet.res.in एवं सरकार के सेंट्रल प्रोक्यूरमेंट पोर्टल (सीपीपी) http://www.eprocure.gov.in. पर भी उपलब्ध है। संस्थान किसी भी स्तर पर बिना किसी कारण बताए निविदा को पूरा या आंशिक रद्द करने का अधिकार सुरक्षित रखता है।

Also final minutes of Pre-Bid meeting held on 08th January, 2020 are available on websites as stated below. All other terms & condition shall remain unchanged. For details and submission of bids please visit website https://moes.euniwizarde.com. For the information of the prospective bidders, the tender details are also available on this Institute's Website: http://www.tropmet.res.in and Government's Central Procurement Portal (CPP) http://www.eprocure.gov.in. The Institute reserves the right to cancel the tender at any stage either in full or part as the case may be without assigning any reason thereof.

ह/Sd-
प्रशासनिक अधिकारी, कृते निदेशक
Administrative Officer, for Director
ईमेल/Email :psu.iitm@tropmet.res.in

Sub: Pre-bid meeting minutes for the supply, installation and commissioning of Ceilometer Qty 4 sets. (PS/125/19/2019)

Pre-bid Meeting for Procurement of "Laser Ceilometer" Qty-04 Sets, scheduled on 8th January, 2020 at 11.00 hr at IITM Pune was attended by following bidder :-

1) Electro Mechanical Enterprises,
2) SGS Weather
3) Environemental Systems pvt.ltd
4) MeaTech Solutions and BKC Weather Sys Pvt. Ltd.

The queries raised by them in the meeting followed by emails are responded as follows.

Electro Mechanical Enterprises

Parameters	Specifications	OUR OBSERVATIONS AND QUERIES REQUEST.	Reply of IITM
Wave length	900 to 1100 nm	Should be broad based to meet all suppliers such as 905 or 910 etc. or (905+/- 5%)	No Change as per RFP
Transmitter/receiver	Monostatic	Some manufacturers use dual lens design which is as good as single lens/ monostatic design to detect and report low altitude clouds. Whereas other manufacturers tried to convince that single lens is necessary in order to measure clouds back scatter fog, mixing layer etc at very low altitudes. However this is not the case and in fact it is almost the opposite depending on how you design the Ceilometer. With our design the sender and receiver will "see" each other at 75 ft, or about 25 meters. However there is no problem to detect clouds in the range from 0 - 25 meters regardless since there are multiple secondary reflections on the water drops and it can easily be detected. Instead actually using a two lens design the receiver and transmitters are optically isolated from each other allowing the receiver to be always on and sample and not flooded by the transmitter. This is what is known as cross-talk and is a problem with single lens design in the very low altitudes (typically 0 - 25 meters depending on pulse length. We can and do detect clouds at very	The system is meant to measure not only cloud heights but also backscattering coefficient from a possible minimum height with reasonable accuracy. Changed specification to bi-static to allow competition.

		low altitudes (virtually 0 m) with dual lens. However, "clouds" at these altitudes are normally considered "fog" and is reported as vertical visibility. Our Principals M/s. Eliasson have delivered about 2400 ceilometers world-wide as of today and are working satisfactorily even on the moving ships . We definitely do detect low altitude clouds at virtually 0 m. (The lowest reported cloud height is 10 meters, but it includes any clouds below this altitude as well.) For similarly specified tenders globally buyers have normally made specifications broad based or directly approved both types of design since it is the function of the ceilometer (i.e. detect clouds or fog etc. at very low height, i.e. directly on the ground) that is important, and not how it is technically solved. Hope you will consider economics, maintenance and the significance of data acquired which may be used for research /prediction of meteorological parameters vis cost and technology. For your information in India IMD, ISRO, PUNE University etc have used Eliasson ceilometers. Hence, we request that either single lens or dual lens should be acceptable.	
Sampling rate	at least 100 MHz	Please elaborate in regard to the sampling rate requirement? It is noted from the specifications that a resolution of 10 m yields 15 MHz sampling rate and a resolution of 5 m yields 30 MHz sampling rate so why 100 MHz is desired. This specification should be deleted or should meet some criteria with resolution.	Deleted now
Raw Data type/resolution	Ascii/binary/NetCDF; resolution less than or equal to 10 m and its multiples (selectable)	Whether you need all formats as raw data at same time from the device itself or any of the format such as ASCII, Binary or NetCDFetc is acceptable in the PC, Laptop or data acquisition system . Also clarify whether the data format here refers to hardware/ firmware feature as digital output format or software in PC. Where formats of raw data can be interchanged in case you need Net CDF please define character and bit integer such as 32 or 64.	Ascii and NetCDF are essential but not binary. Ceilometer should have a data acquisition system, compatible to configure ceilometer, real time visualization and data storage.

Software for real time and offline visualization	Suitable GUI to visualize all parameters like time-heightaerosol back-scatter in absolute units (sr- 1m-1) aerosol back-scatter profiles with selectable average time and height interval, depiction of Mixed layerand cloud heights,etc.	Please clarify maximum and minimum height for accurate depiction/Indication of mixed layer with respect measuring range of 15 Kilometers. In case you have already got good results while using similar instrumentation please state the accuracy and range otherwise delete it. Also please specify what parameters you need to visualize real time and parametersoffline.	Maximum height for mixed layer height depiction is 4 km with an accuracy of +/- 10 m. Minimum height 10m. Suitable software for Real time and offline (both) visualization and saving of images of 1) time-height aerosol back-scattering coefficient in absolute units (sr-1m-1), 2) aerosol back-scatter profiles with selectable average time interval and height range, 3) depiction of Mixed layer heights and cloud heights

Query:- Reporting interval : it should be 15 to 120 seconds for better and significant results.
Reply: Please refer new specification

Query:-Measurement interval : it should correspond to the sampling rate as wellas to reporting interval. Lowest sampling time should be 15 Secondscorresponding to reporting interval for better results.
Reply: No change, as per RFP

Query :-Accuracy: It should also correspond to Range resolution if it is 5 Meterthen it should be +/- 5 meter if it is 10 meter then it should be +/-10meter .
Reply: Accuracy of +/- 10 m acceptable

SGS WEATHER & ENVIRONEMENTAL SYSTEMS PVT. LTD

Query :-The present requirement of "Reporting interval is defined as 2sec… 600sec in the tender specifications. We request your office to kindly amend the specification of Reporting Interval as 6sec…120sec or polling. This is the standard in all the commercially available Ceilometers. We look forward to your positive reply in order to submit a fully complied bid.
Reply: 6 sec or its multiples, selectable

MeaTech Solutions

1. Page 36, 4.5, we request you to increase the downtime callattendance from 24 hrs. to 72 hrs.
Reply: No change, as per RFP

2. Page 36, 4.4, kindly specify the exact locations of installations.
Reply: Two ceilometers should be in Delhi and the other two should be in Bhopal

3. Page 59, Technical Specifications: Kindly relax the measurementlength from 0-15 km to 0-8/10 Km so we can also participate in this tenderor you can relax it like 0-10 or more.
Reply: No Change, as per RFP

4. How we are going to log the data from the ceilometer because thereis no mention of any datalogger. Kindly clarify.
Reply: Real time visualization of parameters as well as storage of all data should be provided through dedicated laptop. Laptop specs included

5. Page 59, Technical Specifications: Wave Length range is from 900 to1100nm but our product has the wavelength range of 912nm, Class1M. Do itcomply to your requirement? Kindly clarify.
Reply: Any wavelength from 900 nm to 1100 nm is acceptable

BKC WeatherSysPvt. Ltd.

1. Installation sites for 4 Ceilometers
Reply: Two ceilometers should be in Delhi and the other two should be in Bhopal

2. Tender document does not mention exemption from bid security for MSMEs in terms of Public Procurement policy (PPP) for Micro & Small Enterprises (MSEs) Order, 2012 issued vide Gazette Notification dated 23.03.2012 given the fact that though this item is not manufactured in India and services such as installation, training and AMC for 4 years after warranty for forms large part of the bid value
Reply :- please refer RFP clause no. 1.15.7

3. Instead of seeking certification form private organizations like MIRA INFORM PRIVATE LIMITED, Dun & Bradstreet, a certificate of solvency from a nationalized bank should be allowed
Reply :- No change, as per tender document.