

Response to Bidders questions for pre-bid meeting of Ozone Sonde system held on 22/01/2023. The queries were received from CPPP portal through CPU vide file no. DGM-HQ 3201(41)/2 CPU-DGM Com. No. 19944.

### 1. SGS Weather

Tender RFP	Bidder's Question	Reply
Ground system for Ozone measurement shall consist: ii. Ozonizer Kit including calibration and test unit (USEPA / TUV approved).	Please let us know is USEPA/TUV approval mandatory requirement?	As per tender document
The system must be capable of producing traditional alphanumeric coded meteorological messages as specified in the latest WMO Manual on codes. BUFR, TEMP, PILOT including national practices as applied in India as per <b>Annexure-I</b> . Tenderer shall list the available BUFR message sequences. CLIMATE TEMP (Monthly) as per IMD's requirement shall be prepared. Further, software must have option for generating data in WOUDC format.	Please clarify is CLIMATE TEMP (Monthly) relevant for this solution considering the low number of soundings per month (2-3 per month) per site?	Yes. As per tender document.
Software shall be able to generate following plots: <ul style="list-style-type: none"> <li>• Stuve thermodynamic diagram</li> <li>• Tephigram</li> <li>• Pressure/altitude versus temperature, geopotential height &amp; humidity.</li> <li>• Plot of time versus temperature, pressure, humidity, geopotential height</li> <li>• Pressure/altitude versus Wind speed and direction.</li> <li>• Balloon track with time.</li> <li>• Total perceptible water</li> </ul>	Is total perceptible water relevant and mandatory requirement for Ozone Sonde? Please clarify.	It is IMD requirement.  As Per Tender document.
Operating temperature range, indoor equipment: +0 to +40°C Rain sealing: Weather Resistant	Please clarify what parts of the solution are referred here as indoor equipment and what parts of the solution needs to have rain	Antenna, attached wires upto indoor unit must be Weather resistant. Indoor Unit must function properly

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	sealing (weather resistant)?	in cold weather.
IMD intends to procure Four (4) numbers of upper air Ozone Sounding Systems using Global Positional System (GPS) along with staggered supply of Ozone-radiosonde with meteorological balloons and other accessories @ 120 numbers per year for 05 years.	The project timeline is spread over five years and it is impossible to appreciate the variations in Foreign currency exchange rates. It is requested that the following be added under exchange rate variation clause. Exchange rate variation shall be applicable for Rupee contracts with Indian bidders, based on RFPs issued under the category 'Buy (Global)'. The guidelines on the protection of exchange rate variation are given at Annexure I	As per tender document.

## 2. GRAW Radiosondes

Tender RFP	Request for amendment	Reply
Compliance of Rule 144(xi) of GFR-2017: Bidder has to submit a compliance certificate that they comply with the Govt. Order F. No. 6/18/2019-PPD dated 23 <sup>rd</sup> July, 2020 of Min. of Finance, DoE, Public Procurement Division, failing which their bid shall not be accepted and liable to be rejected.	MII Purchase Preference: The specification is very high end and the solution for this comes from only reputed Overseas Manufactures, hence the clause of Make in India (MII) need to be removed to allow wider participation and most compliant proposal.	As per tender document.
The system to be offered, consisting of ground equipment and radiosonde, must have taken part in the WMO inter-comparison test 2010 Beijing, China. The inter-comparison report shall indicate the radiosonde to be of high quality i.e. The Radiosonde offered should have scored to 4.0 or more under Table 12.1 of the	Only those firms are eligible whose GPSSonde model had scored 4.0 or more under table 12.1 of the WMO Technical Report No n107 (WMO TD No. 1580) on all parameters in the latest WMO inter-comparison test 2010 held at Beijing, China or having GRUAN certification. If one model of OEM has qualified the WMO intercomparison, the other model has been certified by GRUAN and also their latest model is in the category of 'In	As per tender document.

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<p>WMO Technical Report No. 107 (WMO TD No. 1580) on all parameters or GRUAN certification. (<a href="http://www.wmo.int/pages/prog/IMOP/publications/IOM-107_Yangjiang.pdf">http://www.wmo.int/pages/prog/IMOP/publications/IOM-107_Yangjiang.pdf</a>)</p>	<p>GRUAN certification process' any of three models is acceptable.</p>	
<p>The system to be offered, consisting of ground equipment and radiosonde, must have taken part in the WMO inter-comparison test 2010 Beijing, China. The inter-comparison report shall indicate the radiosonde to be of high quality i.e. The Radiosonde offered should have scored to 4.0 or more under Table 12.1 of the WMO Technical Report No. 107 (WMO TD No. 1580) on all parameters or GRUAN certification. (<a href="http://www.wmo.int/pages/prog/www/IMOP/publications/IOM-107_Yangjiang.pdf">http://www.wmo.int/pages/prog/www/IMOP/publications/IOM-107_Yangjiang.pdf</a>)</p>	<p>Only those firms are eligible whose GPSsonde model had scored 4.0 or more under table 12.1 of the WMO Technical Report No n107 (WMO TD No. 1580) on all parameters in the latest WMO inter-comparison test 2010 held at Beijing, China or having GRUAN certification. If one model of OEM has qualified the WMO intercomparison, the other model has been certified by GRUAN and also their latest model is in the category of 'In GRUAN certification process' any of three models is acceptable.</p>	<p>As per tender document.</p>
<p>Temperature, Humidity, Wind, Pressure and Geopotential height, : The Radiosonde part of Ozone-radiosonde offered should have scored to 4.0 or more mentioned in the Table 12.1 of the WMO Technical Report No. 107 (WMO TD No. 1580) or GRUAN certification.</p>	<p>Temperature, humidity, Wind, Pressure and Geopotential height, : The radiosonde part of Ozone-radiosonde offered should have g) Only those firms are eligible whose GPSsonde model had scored 4.0 or more under table 12.1 of the WMO Technical Report No n107 (WMO TD No. 1580) on all parameters in the latest WMO inter-comparison test 2010 held at Beijing, China or having GRUAN certification. If one model of OEM has qualified the WMO intercomparison, the other model has been certified by GRUAN and also their latest model is in the category of 'In GRUAN certification process' any of three models is acceptable.</p>	<p>As per tender document.</p>
<p>The transmission power (effective radiation power) shall be high enough to ensure reliable telemetry in</p>	<p>he transmission power (effective radiation power) shall be high enough to ensure reliable telemetry in accordance with other requirements in this specification and to</p>	<p>As per tender document.</p>

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accordance with other requirements in this specification and to ensure received signal better than the sensitivity of the receiver up to the radial distance as per score of at least 4.0 in latest WMO inter-comparison or GRUAN certification. Tuning Range 400-406 MHz or 1668.4-1700 MHz Transmission range > 250 kms.	ensure received signal better than the sensitivity of the receiver up to the radial distance as per had scored 4.0 or more under table 12.1 of the WMO Technical Report No n107 (WMO TD No. 1580) on all parameters in the latest WMO inter-comparison test 2010 held at Beijing, China or having GRUAN certification. If one model of OEM has qualified the WMO intercomparison, the other model has been certified by GRUAN and also their latest model is in the category of 'In GRUAN certification process' any of three models is acceptable. Tuning Range 400-406 MHz or 1668.5-1700 MHz transmission range > 250 kms.	
The bidders must have ISO certification.	The bidders of OEM must have ISO certification.	As per tender document.
Terms of Delivery : FOR	To CIP	AS per para 8.2 point (ix) of Chapter I.
Terms of Payment : INR	To foreign Exchange: to be modified to accommodate foreign supplier so that you have wider cometition.	As per tender document.

*Vijay Kumar*  
3/2/23

(Dr. V. K. Soni)

Scientist-F, Chairman

*Siddhartha*  
03/02/2023

(Dr. Siddhartha Singh)

Scientist-F, Member

*Anikender*  
03/02/2023

(Dr. Anikender Kumar)

Scientist-C, Member -Secretary

*J.P. Giri*  
03/02/2023

Shri J. P. Giri

Met-A, CPU, Member