

25<sup>th</sup> January, 2021

## *Minutes*

### PRE-BID MEETING FOR "SUPPLY, INSTALLATION, TESTING and COMMISSIONING of RF SPECTRUM ANALYZER" at IUCAA

The Pre-bid meeting for Supply, Installation, Testing and Commissioning of RF Spectrum Analyzer was held on 22<sup>nd</sup> January, 2021 at 1100 hrs in Bhaskara 1. The following members were present:

1. Prof. Subhadeep De
2. Mr. B. V. Sawant

Total four representatives from two different organizations attended the meeting. The questions raised by the agencies were satisfactorily clarified by IUCAA. The queries with response are enclosed in Annexure – I and the list of representatives present as Annexure – II.

B. V. Sawant

Subhadeep De

## Annexure – I

**Following points were discussed in Pre-Bid Meeting held on 22.01.2021 at 1100 hrs in Bhaskara – 1.**

Sr. No.	Name of the Agency	Tender condition	Query	Clarification given by IUCAA
1	Mr. Mahesh Kajave M/s. Rohde & Schwarz Chakala, Andheri - Kurla Rd, Andheri East, Mumbai - 400093 E-mail-Mahesh.Kajave@rohde-schwarz.com M.- <u>7875522433</u>  Query received through mail.	Sr. No. iv: Average amplitude noise level better than 130 dBm/Hz over entire range of operation 1 Hz - 26 GHz. Ultra-low phase noise (better than -100 dBc/Hz) over the entire range of operation.	Ultra Phase noise specification Frequency is not mentioned. For Phase noise measurement specification no. Sr.No.18 you required >-100dBc/Hz & this value is very low for phase measurement. request you to please correct it to “-135dBc/Hz @1GHz with 10kHz offset”	If the vendor wants to offer the suggested specifications, IUCAA will not have any objection since the specification better than the specification mentioned by us in the tender.
		Sr. No. vii: Spectrum Refresh rate: better than $3 \times 10^5$ wfm/s.	As per basic architect of Spectrum Analyzer sweep time is important, request you to change this specification to & mention Sweep time range: span = 0 Hz 1 $\mu$ s to 16000 s span $\geq$ 10 Hz 3 $\mu$ s to 16000 s	If the vendor wants to offer the suggested specifications, IUCAA will not have any objection since the specification better than the specification mentioned by us in the tender.
		Sr. No. xvi: 200MHz, 2Ch External Function Generator.	As we understood requirement from tender specification Spectrum Analyzer Frequency 26GHz, 200MHz Function Generators are 2 different requirements. please consider 200MHz Function Generator as a separate instrument and evaluation of same can be done separately.	I agree that the function generator and spectrum analyzer are two different units hence, our requirement is as "External" function generator

2	<p>Mr. Ranganath Kumar  Business Manager  M/s. GeekaysIndia  Email- <a href="mailto:ranga@geekaysindia.com">ranga@geekaysindia.com</a>  Mb. 9663421566</p>		<p>The frequency range 1 Hz to 26 GHz as mentioned is the indent is very specific and not general so their company cannot meet this.</p>	<p>The specifications are made based on requirements in the lab and 1Hz is very critical, for that purpose it is also mentioned in the tender. On the other hand, the entire range of 1 Hz o to 26 GHz is also essential for a wider application in the lab. So, considering applicability in the lab and value-for-money the indented specification 1 Hz - 26 GHz are made correctly.</p>
			<p>Whether they can supply two different spectrum analyzers covering the entire frequency range and meeting the other specifications mentioned in the tender?</p>	<p>Since our requirement is for one item, bifurcations into two items not acceptable.</p>
			<p>Whether the ~200 MHz function generator is an external device?</p>	<p>This as an "External" analyzer, so spectrum it will be considered as an external device.</p>

