

CSIR- NATIONAL PHYSICAL LABORATORY

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From: Director, CSIR-NPL
Tender No. 14-VI/DDS(1121)23PB/T-105

Dated: 11.10.2023

CORRIGENDUM

With reference to NPL's Global Tender ID: **2023_CSIR_728481_1** for "**Vector Network Analyzer**". Some changes have been made in the technical specification of captioned tender. Revised specifications are as follows:

| | Specification | |
|----|--|---|
| 1 | Frequency Range | 10 MHz to 20 GHz or wider |
| 2 | Relative Accuracy in Frequency Measurement | 0.5 ppm or better |
| 3 | Frequency resolution | 1 Hz or better |
| 4 | Stability | 0.1 ppm or better |
| 5 | Number of ports | two or more |
| 6 | Dynamic range | 100 dB or better for the frequency range 10 MHz to 20 GHz |
| 7 | Trace noise | <0.006 dB trace noise |
| 8 | IF Bandwidth | 10 Hz to 500 kHz or wider |
| 9 | Directivity over the full frequency range | 40 dB or better |
| 10 | Source and load match over full frequency range | 30 dB or better |
| 11 | Reflection tracking over full frequency range | ± 0.1 dB or better |
| 12 | Transmission tracking over full frequency range | ± 0.15 dB or better |
| 13 | Test port output power range | -30 dBm to +6 dBm or wider |
| 14 | Power | As per Indian standard |
| | Accessories | |
| 15 | Mounting Rack, Calibration kit | Mounting Rack with 3 compartments and wheel arrangement, Calibration kit |
| 16 | Flexible cables (02 Nos), Phase-stable cables (04 Nos) | Flexible cables (02 Nos), Phase-stable cables (04 Nos) |
| 17 | Data Acquisition System | Suitable separate Data Acquisition Systems with software and VNA Shall be suitable to measure the TM and TE modes in Copper |

| | | |
|----|---------------------|---|
| | | Spherical Cavity Resonator using SP 2 mode NPL Cavity Dimension : 10 cm diameter, copper spherical cavity |
| 18 | Acceptance Criteria | All the quoted capabilities must be demonstrated by the supplying firm at CSIR- NPL |

All other terms & conditions of said tender will remain the same.


Sr. Controller of Stores & Purchase

Minutes of the Meeting (MOM) of the Pre-Bid Conference

Date: 03/10/2023

With reference to the File No. 14-VI/DDS(1121)23/PB dated 17.04.2023, regarding Pre-Bid conference for procurement of "Vector Network Analyzer", a Pre-Bid Conference was held on 03/10/2023 (Tuesday) at 3.00 PM in the Second Floor Conference Room, Main Building CSIR-NPL, New Delhi under Chairmanship of Dr. H. K. Singh.

Following vendors & their representatives participated in Pre-Bid Conference.

1. Mr. Suvrat Verma, M/s Rhode & Schwarz India Pvt. Ltd., Mathura Road New Delhi 110044 along with their Authorized Channel Partner M/s Balaji Enterprises, Shahadara, Delhi
2. Mr. Vinod Dass, M/s Anritsu India Pvt. Ltd., Noida 201301 (UP) along with their Authorized supplier M/s RDK Tech Solutions India Pvt. Ltd, Shahadara, Delhi -110032
3. Mr. Surender Singh, M/s Agmatel India Pvt. Ltd, Vikas Marg, New Delhi along with their OEM M/s Keysight India

The following members attended the meeting:

1. Dr. H. K. Singh, Chief Scientist
2. Dr. Anjana Dogra, Senior Principal Scientist
3. Dr. Subhasis Panja, Senior Principal Scientist
4. Dr. S. K. Dubey, Principal Scientist
5. Dr. Komal Bapna, Scientist
6. Dr. D. D. Shivagan, Senior Principal Scientist

Dr. D.D. Shivagan, presented the tendered specifications to the pre-bid participants. Each and every point was discussed in details by the committee members. The queries received from vendor during the pre-bid meeting were discussed and clarified. The details specification and responses from vendors are given below:-

Chairman
Member
Expert
Expert
Member Co-PI
Indenter, PI