

**Telecom Engineering Centre
(Department of Telecommunications)
Khurshid Lal Bhawan, Janpath, New Delhi-110001**

Open RAN testing fee w.r.t. MoU between TEC and M/s VVDN Tech.

The Competent Authority has approved the mutually agreed fee structure between TEC and M/s VVDN Tech. for testing of Open RAN products as detailed below:

A. Test Equipment Usage Fee:

Test Equipment	Usage Fee including setup Per Day (₹) (For others*)	Usage Fee including setup Per Day (₹) for registered Startups & MSMEs**
Oscilloscope (4GHz)	1000	800
Portable Spectrum Analyser	1000	800
Analog Signal Generator 40GHz	1000	800
Arbitrary Waveform Generator	9000	7200
Vector Signal Generator /Analyser (sub 6GHz)	7000	5600
Vector Signal Generator /Analyser (mm Wave)	11000	8800
Vector Network Analyser	9000	7200

*Government/Academic/R&D/PSUs/Non-MSME/Non-Indian entity other than registered Startups & MSMEs

**20% Subsidized testing fee for DPIIT registered StartUps & registered MSMEs

B. Technical Manpower Support Fee:

The Fee for the Technical Manpower (For others): ₹ 8,000/- per person day of effort exclusive of applicable GST.

The Fee for the Technical Manpower for registered Startups & MSMEs: ₹ 6,400/- per person day of effort exclusive of applicable GST.

C. List of Services and Service Usage Fee:

S. No	Services	Involved Subsystems and Access	Fee (₹) (For others)	Fee (₹) for registered Startups & MSMEs **
1	End to end Test Bed Usage Service	1 UE+1 NG-RAN+1 5G Core & Management with Access to Logs and Messages	Service Usage Fee ₹10,000/- per day + Agreed Manpower Support Fee	Service Usage Fee ₹8,000/- per day + Agreed Manpower Support Fee
2	RAN level Test Bed Usage without RF Equipment	1 UE+1 NG-RAN with Access to Logs and Messages, Access to APIs, Access to Proprietary interfaces of components	Service Usage Fee ₹ 8,000/- per day + Agreed Manpower Support Fee	Service Usage Fee ₹ 6,400/- per day + Agreed Manpower Support Fee
3	RAN level Test Bed Usage with RF Equipment	1 UE+1 NG-RAN with RF Equipment with Access to Logs and Messages. Access to APIs, Access to Proprietary interfaces of components	Service Usage Fee ₹ 8,000/- per day + RF Test Equipment Usage Fee+ Agreed Manpower Support Fee	Service Usage Fee ₹ 6,400/- per day + RF Test Equipment Usage Fee+ Agreed Manpower Support Fee
4	PHY level Test Bed Usage with RF Equipment	1 RRH+ 1 BB with RF Equipment with Access to Logs and Messages, Access to APIs, Access to Proprietary interfaces of components	Service Usage Fee ₹ 6,500/- per day + RF Test Equipment Usage Fee + Agreed Manpower Support Fee	Service Usage Fee ₹ 5,200/- per day + RF Test Equipment Usage Fee + Agreed Manpower Support Fee
5	Emulated End to End Test Bed (RAN Emu +5G Core)	1 RAN Emulator + 1 5G Core & Management with Access to Logs and Messages. Access to APIs, Access to Proprietary interfaces of components	Service Usage Fee ₹5,000/- per day + Agreed Manpower Support Fee	Service Usage Fee ₹4,000/- per day + Agreed Manpower Support Fee

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Further, the additional requirements with respect to Open RAN testing by M/s VVDN Technologies using their existing facility is as follows:

- Any other equipment which is not mentioned above will be charged separately and the same may be decided mutually between M/s VVDN Technologies and the applicant/Institute/Enterprise;
- Tentative days required for testing for the actual Scope of work and test cases will be intimated by M/s VVDN Technologies to the applicant before start of the testing;
- Final Cost will be calculated based on Service Usage fee+ Manpower Support Fee + Equipment Usage fee;**
- M/s VVDN Tech. will utilize the existing equipment on the best-case basis for the testing;

The fee structure as above is applicable for a period of six months w.e.f. 09.11.2022. Thereafter, the same may be reviewed by TEC.