



Description

EMR Division, BNN Communication Engineers Private Ltd is 17025 accredited as on site testing laboratory established in Delhi NCR. The laboratory is in operation since 2018 and has tested several chambers for both Government and Private customers.

Services

- Shielding Effectiveness (IEEE 299:2006, EN 50147)
- Normalized Site Attenuation (CISPR 16-1-4, ANSI 63.4)
- SVSWR (CISPR 16-1-4)
- Field Uniformity (IEC 61000-4-3)
- ALSE Performance Validation (CISPR 25, Annexure J)

- Anechoic Chambers
- Shielded Rooms
- Open Area Test Sites
- Semi Anechoic Chambers

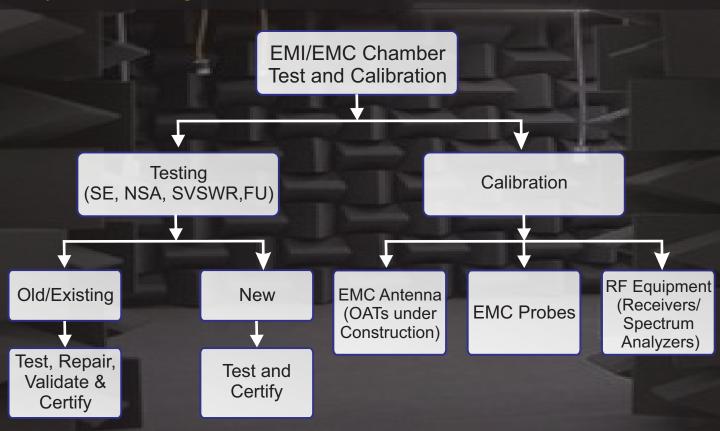






EMC/EMI CHAMBER SERVICES

Repair , Testing & Re-Certification



Description

EMC / EMI chambers are prone to deterioration with usage & time & need periodic verification.

BNN provides a comprehensive one stop solution for identification, repairs, validation followed by testing & certification.

- Existing and New EMI/EMC Chambers/OATs
- Existing and New Shield Rooms
- Antenna testing & Measurement installations





CHAMBER SHIELDING TEST

Nuclear Survivable / Transportable Systems as per MIL standard 188-185-1/2



TC-8196



Description

EMR Division, BNN Communication Engineers Private Ltd is 17025 accredited on site testing laboratory established in Delhi NCR. The laboratory is in operation since 2018 and has tested several HEMP hardened Enclosures and cabinets.



Shielding Effectiveness (IEEE 299.1:2013, MIL Std. 188-125.1/2,IEC 61000-5-7)

Applies To (Nuclear Environment)

- Subscriber Terminals.
- Data Processing Centers
- Tx/Rx Communication Systems
- Relay Systems







Description

BNNSPEAG test and calibration Laboratory (I) Private Ltd, is a joint venture between BNN, India and Speag Switzerland undertakes accredited on site/in lab calibration of EMI/EMC probes, Signal Generators, Spectrum Analyzers. It is also accredited by TEC as a Certified Assessment Body (CAB)



Services

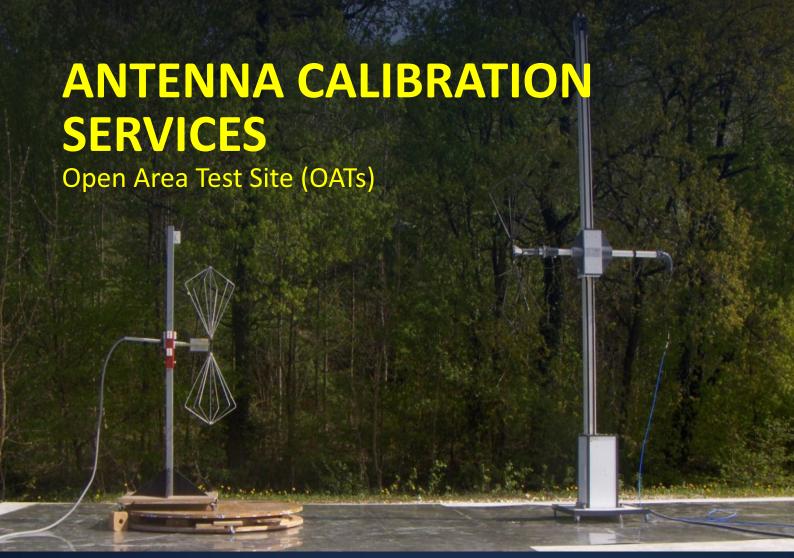
- Calibration of EMI EMC Probes (IEEE 1309:2013, TEC GR TEC/SD/DD/CAL-EMF/01/FEB/19)
- Calibration of RF Instruments Spectrum Analyzers,
 Signal Generators, Attenuators, Power Meters





- EMC probes & Field meters of all makes (Narda, AR world, ETS etc.)
- RF instruments of all makes (R&S, Keysight, Anritsu etc.)





Description

BNN is setting up a 30m*30m Open Area Test site at village Mehmoodpur, Tehsil and District: Ghaziabad. The measurements would be carried out in a 10m obstacle free area. The site has been acquired & regulatory approvals for frequency assignment by WPC have already been received.

Services

- Calibration of Antennae as per International standards ARP 958,ANSI C63.5 (2006 & 2017),CISPR 16-1-6.
- Frequency Range (9KHz-40GHz)

- EMC / EMI Antennae.
- Dipoles, Monopoles, Bi-Conical, Hybrids & various other types of Antennae.





DIELECTRIC ASSESSMENT SYSTEMS

Dielectric Material Measurement of Space Application Materials.



Description

BNNSPEAG test and calibration Laboratory (I) Private Ltd, a joint venture between BNN, India and Speag Switzerland undertakes precise measurement of di-electric properties of materials (solids and liquids) from 4MHz-GHz using Di-Electric Assessment Kits from Speag, Switzerland.

Services

- Permittivity
- Loss Tangent
- Conductivity

Applies To

Boron, Teflon, Eccosotck, Water, Methanol, FR4, Blood, Head and Body simulating liquids, Di-Methyl Sulphoxide







Organizational Overview

BNN group of Companies originated as a wireless service providing organization as BNN Communication Engineers Pvt. Ltd., offering turnkey wireless services for the past 25 years. The company has a professional management team headed by CEO Bharat B Jain, M.Tech (IIT Kanpur), MBA with over 40 years of experience in Government & Industry.

In 2012, Company setup a joint venture "BNNSPEAG test & Calibration laboratory Pvt. Ltd." with M/s Speag, Zurich. The laboratory obtained its 17025 accreditation in 2013.

In 2018,a new Electromagnetic radiation (EMR)Division has been setup to undertake various activities related to validation of EMI/EMC chamber & Enclosures. The division has obtained 17025 accreditation in 2018.

BNN Communication Engineers Pvt. Ltd.

Wireless Services

Network Planning for RF & Transmissions , LOS Surveys Interference Source Hunting Spectrum Scanning EMF RF Services

Products

SAR Laboratory supply , setup & installation Di-Electric Measurement Systems SEMCAD-X

Regulatory Services

WPC/SACFA/ETA/Import Licenses/EWL TEC/MTCTE
BIS

OHSAS 18001:2007 Accredited

EMR Division , BNN Communication Engineers Pvt. Ltd.

One Stop Certification of EMC/EMI/Anechoic Chambers/OATs

Shielding Effectiveness
Normalized Site Attenuation
SVSWR
Field Uniformity
ALSE Performance Validation
MIL Testing of Nuclear Survivable & Transportable Ground based systems
Shielding Effectiveness





BNN SPEAG Test & Calibration Laboratory (I) Pvt. Ltd.

Calibration Services

Field Probes (Laser Driven included) – Govt. of India / DOT/TEC registered RF Instruments – Signal Generators, Receivers, RF Components

Testing Services

Specific Absorption Rate 5G Power Density Measurement OTAs Human Body Phantoms











