



**Sahajanand**

**LASER TECHNOLOGY LTD. RF & Microwave Division**

## ANECHOIC TEST BOX-

### FEATURES-

- ❖ Low cost solution to anechoic chamber.
- ❖ Set consists of two boxes, one for Transmitter ( $T_x$ ) and other (Receiver  $R_x$ ) for AUT/DUT.
- ❖ Five side absorber covered metallic movable box.
- ❖ Optimum performing absorbers at near normal/grazing incidences of extraneous signals used.
- ❖ Low RCS stand supplied to hold transmitting / receiving antenna with manually operated basic antenna positioner with motor.



### APPLICATIONS-

- ❖ Necessary requirement for accurate antenna measurements & RCS measurements.

### SPECIFICATIONS-

- ❖ **Frequency Range:** 800MHz – 18GHz and beyond.
- ❖ Each box of 1.2m X 1.2m X 1.2m size.
- ❖ Test zone size where Antenna Under Test (AUT) to be placed is 0.2mX0.2mX0.2m in  $R_x$ .
- ❖ Reflection signal (reaching test zone) down by min -30dB with respect to direct signal at 800 MHz raising up to -40dB at 3.0 GHz and higher frequencies.
- ❖ All Absorbers to be used are Fire Retardant per Passes NRL-8093, USA test 1, 2 & 3 With **Zero Halogen Means**.
- ❖ Basic Antenna positioner with load capacity of 5.0 kg.

### AVAILABLE OPTION-

- ❖ **Advanced Antenna positioner-**
  - With turntable capable of 360 degree azimuth rotation with 1 degree step precisely controlled by PC software.
  - **Synchronized** with various **analyzers** like VNA, Power Meter etc. to record power reading automatically at various positions.
  - **PC interface software** to operate positioner & to draw polar plots.

