

**Mandatory Performance Verification Testing (MPVT) of Satellite Earth Station  
Antenna/ Teleport / DSNG / Fixed Terminal / Flyway Antenna by Network  
Operation Control Center (NOCC).**

*Simplified Procedure*

1. After obtaining an “In Principle Approval” from DoT / Ministry of I & B, the operator shall submit the details about the network (viz. N/W proposal, space segment allocation from DoS, frequency plan, link engineering / budget along with link summary, technical specifications of all the equipments from antenna to baseband) and earth station under test (ESUT) details as per format given below as Annexure-I.
2. The operator shall submit demand draft for ` 6000 /= plus applicable service tax per trial per antenna in the name of PAO (HQ), DoT drawn at New Delhi.
3. SACFA / FA clearance from WPC is to be obtained by the operator and the copy of the same may be submitted to NOCC.
4. After completion of above (Sl. No. 1 to 3) formalities, the NOCC shall provide a schedule of date/time for MPVT to the operator.
5. The antenna tests should be offered by the operator on the prescribed date / time only after the ensuring the following:
  - It is advised to optimise the antenna “Radiation Pattern” before offering the ESUT for test
  - Availability of power meter, spectrum analyser at ESUT site.
  - Arrangement of RF Transmission / Reception (U/L Frequency, U/L EIRP and satellite for the purpose of test shall be intimated by NOCC)
  - Arrangement of motorized antenna movements up to  $\pm 15^0$  in azimuth corrected and  $\pm 10^0$  in elevation corrected from the given test satellite location (satellite to be specified by NOCC for testing).
  - Arrangement for a reliable communication media between ESUT and NOCC for online co-ordination.
6. The following tests shall be conducted by NOCC:
  - Trans radiation Pattern
  - Trans Gain
  - CPD
  - G/T
  - HPA Stability
7. The ESUT may be inspected by NOCC representative and the tests might be conducted in front of NOCC representative to ensure the desired quality of service. No uplinking / Commissioning of earth station shall commence until the satellite earth station and the frequency plan are approved by NOCC.
8. In case of DSNG vans, a copy of RC should be submitted by the operator.

