

7. Provide the information notes below for the purposed CubeSat. Submit your response as .pdf to your application :

a) THE TYPE OF SATELLITE, GEOSTATIONARY OR NONGEOSTATIONARY

Nongeostationary

B.) IF ANY SATELLITES ARE NONGEOSTATIONARY, REPORT ITS

INCLINATION ANGLE – 51°

APOGEE IN KILOMETERS – 409.5

PERIGEE IN KILOMETERS – 400.2

ORBITAL PERIOD IN HOURS AND FRACTIONS OF HOURS IN DECIMAL – 1.533

THE NUMBER OF SATELLITES IN THE SYSTEM – 1

b) THE SATELLITE TRANSMITTER ANTENNA GAIN AND BEAMWIDTH – The satellite transmitter antenna is a dipole. The antenna gain is 2.15 dBi and the half-power beam width is 78° .

c) THE SATELLITE TRANSMITTER ANTENNA AZIMUT: NARROWBEAM (NB), EARTH COVERAGE (EC) – There is no NB antenna on the satellite.

d) THE EARTH STATION RECEIVER

ANTENNA GAIN – 15.5 dBi

BEAMWIDTH – 30°

AZIMUTHAL RANGE – 360°

THE SITE ELEVATION ABOVE MEAN SEA LEVEL IN METERS – 45

THE ANTENNA HEIGHT ABOVE TERRAIN IN METERS – 15 (on top of a building)