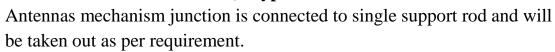
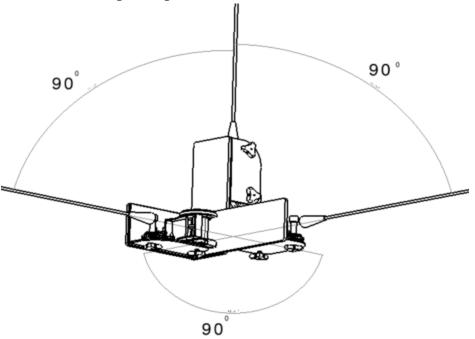
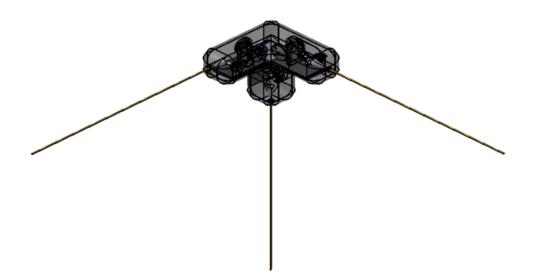
Brain Chamber Satellite Boom Deployment Mechanism, designed as specified and required for Electronics department of University of Pune.

A) Specification

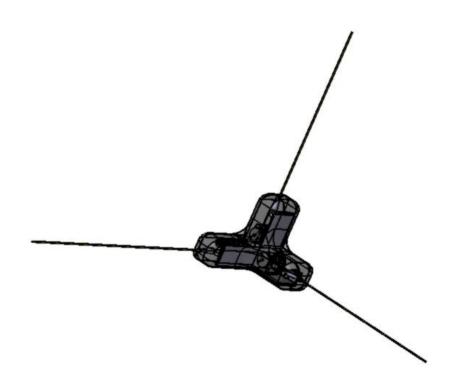
- 1) Weight of satellite boom will be 1500gm (500gm x 3)
- 2) Power supply will not be needed.
- 3) Three antennas are of 90 0 with respect to each other.
- 4) The deployment is 2m.
- 5) The vibration factor remains below 1.5
- 6) The stress, structural and tensile stress will remain maximum up to 8N/mm²
- 7) Impact will not exceed more than 0.55 NS
- 8) Momentum will conserved in space application if it acts as a closed system in space. Hence in designing for engineering model it will be kept as minimum as possible approup to 5.5×10^{-3} ns.
- 9) Point of connection of three antennas will be concentric at the end.
- 10) System will be 0% failure.

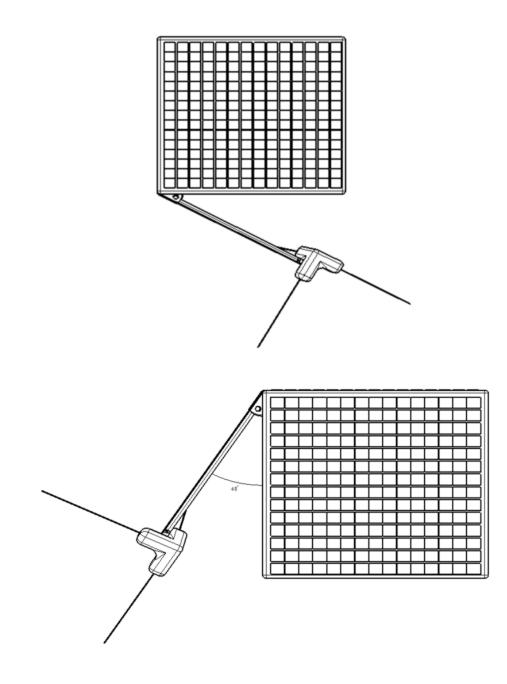


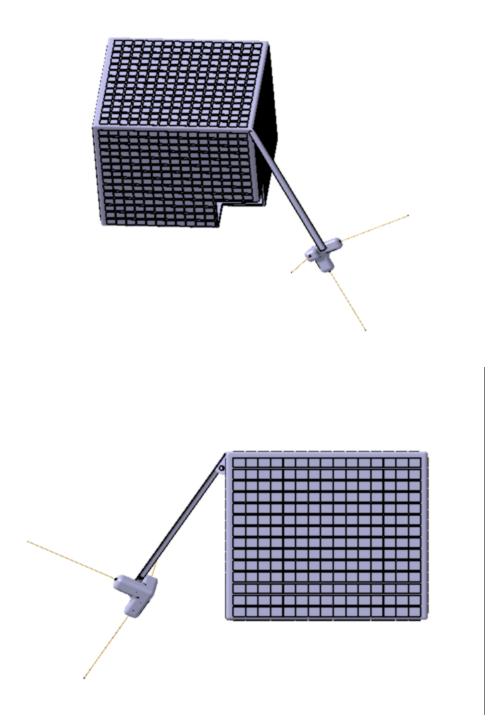


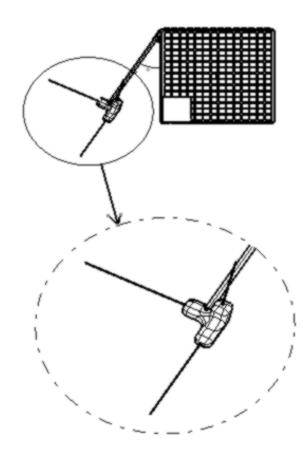


1) Type









2) Type

Antennas mechanism junction is mounted on the body of satellite and each antenna is 45° to the main frame of satellite structure.

