



## IONOSONDE

The Ionosonde is a 'stand-alone' system which uses radar technique to probe the Ionosphere. SAMEER has indigenously developed Digital Ionosonde, which exploits Advanced techniques for signal analysis such as pulse coding, pulse compression, coherent integration etc. with reduced transmitting power of the RF Signal and to maintaining a favorable S/N ratio.

### FEATURES:

- Height Range: Up to 1020 km with Range Resolution of 5 km
- Frequency Range: From 1 to 30 MHz digitally synthesized, with step size of 100 KHz.
- Tx power: 1000 watt (Peak)
- Sky Map and Drift

### APPLICATIONS:

- Physics of Ionosphere
- Characteristics, layers, and their spatio-temporal variation
- Equatorial and High latitude Electro Jet study
- Ionospheric forecasting





## IONOSONDE

### INSTALLATION SITES:

- Dibrugarh University
- Indian Institute of Geomagnetism, Prayagraj
- Future installation at VSSC  
(Vikram Sarabhai Space Centre)

