

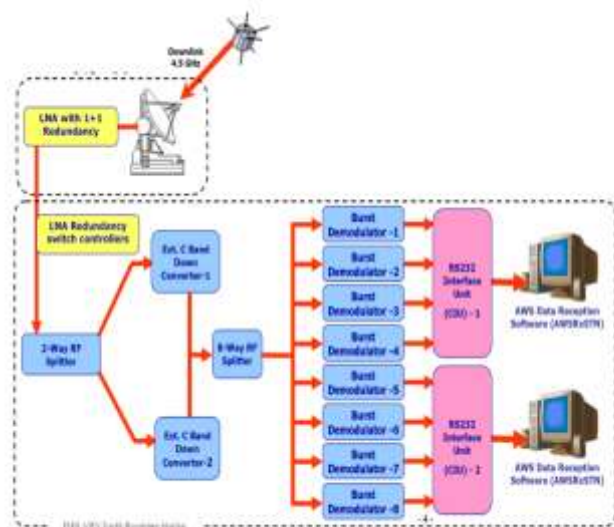
About INSAT AWS LAB

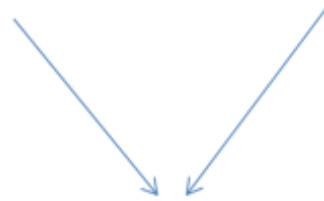
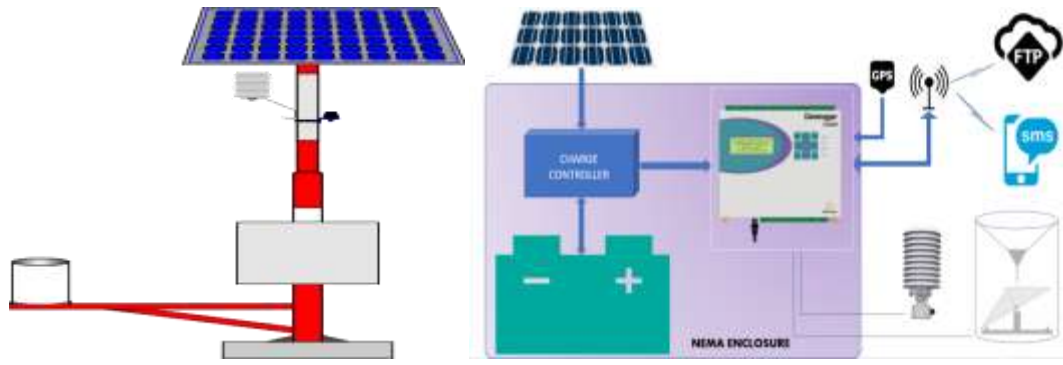
INSAT AWS LAB is the nodal office of Surface Instrument Division for installation of maintenance of Automatic Weather Stations all over India.

The history of Automatic Weather Stations (AWS) in India can be traced back to 1980 when India Meteorological Department (IMD) conducted a pilot experiment with Indian Space Research Organization (ISRO) to operate a small network of Data Collection Platforms (DCP) via SEO satellite to the receiving station at Shriharikota Rocket Range. Subsequently, IMD established a network of 100 Data Collection Platforms (DCPs) across India. Due to system design limitations, network performance achieved was not satisfactory both in terms of data reception and data quality.

In 1997, the AWS network was upgraded by induction of 15 new state of art microprocessor/microcontroller based systems across India under Test and Evaluation mode.

IMD has established a network of 725 AWS, 200 AGRO AWS and 1380 ARG Network. A TDMA type data receiving Earth Station has been established at IMD Pune for reception of AWS and ARG station data. The received raw data is decoded in real time and engineering values of meteorological parameters are retrieved, disseminated and archived. A GPRS based receiving Server have also been established at IMD Pune to receive AWS with GPRS based communication at an interval of 15 minutes or even 1 minute interval. The AWS/ARG received data are being processed and disseminated to IMD Delhi and also to AWS website in real time.





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