

# TECHNOLOGIES TRANSFERRED FROM ISRO

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## Automatic Weather Station (AWS)

(Technology Transferred to Astra Microwave Products Pvt. Ltd.)

One of the key elements for improved weather forecast and services is observation. Augmentation of the current observation network is essential for providing weather and related information at local level. ISRO's programs on Disaster Management Support and Village Resource Centre (VRC) have weather information as a critical component. Several major user agencies in the country such as IMD, SASE, CWC, State Agricultural Departments / Universities require automated systems for Weather data collection from remote and inaccessible areas. The state of the art Automatic Weather Station (AWS) is designed as a very compact, modular, rugged, powerful, low cost system and housed in a portable, self contained package. The AWS consists of compact Data Logger, Data Transmitter, Crossed Yagi Antenna, GPS, Solar Panel and Meteorological Sensors (e.g. Air Temp., relative Humidity, Atmospheric Pressure, Wind Direction, Wind Speed, Solar Radiation, Rain Gauge, Soil Temperature, and Soil Moisture etc.). AWS Transmits Meteorological data every hour from any remote station installed in the foot print of INSAT / KALPANA Satellite.

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