

## Aviation Meteorological Instruments

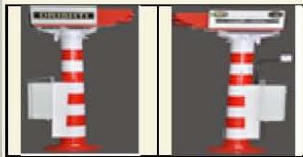
India Meteorological Department is providing Meteorological services to Aviation for planning, safety of operations and installed Airport Metrological Instruments at all civil Airports.

### RECENT ACHIEVEMENTS

Commissioned new PC based Current Weather Observing system generating Aviation Meteorological messages/ Bulletins. IMD installed systems at 35 Runway sites at 30 Airports.



Frangible Mast



Drishti Systems



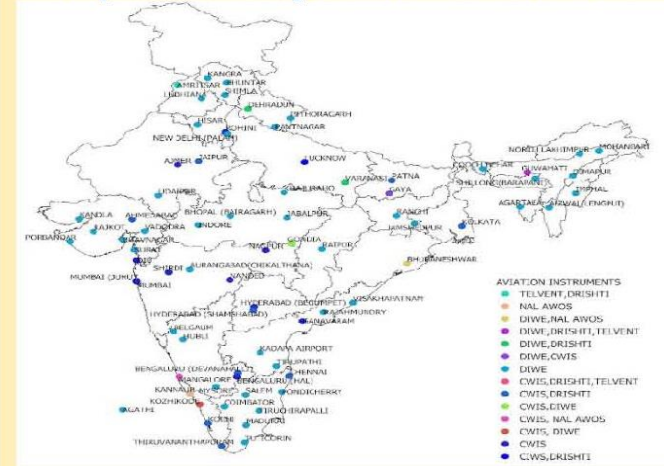
Laser Ceilometer

## CWIS Integrated Display with METAR



- ❖ Eight nos of Laser ceilometers installed at network airports.
- ❖ Four Nos of Drishti Systems integrated with two current weather systems installed at new RWY27-09 of Bangalore Airport.
- ❖ Frangible mast installed at 25 Airports
- ❖ New version of 30 CWIS systems have been installed at 26 Airports.
- ❖ Installed Airport Metrological Instruments at airports under the scheme of UDAN (Ude Desh ka Aam Nagrik)

## Airport Meteorological Instruments Network



### FUTURE PLAN

- ❖ Modernization of 18 Airports with latest AWOS
- ❖ AWOS at 10 Heliports
- ❖ State of ART of Aviation Weather Observing Systems at all small and Major airports.
- ❖ On line view of Aviation Instruments and its health status through Aviation Web Server.
- ❖ Mobile application for view of Data & Health status of Aviation Instruments
- ❖ Installation of Wind shear systems and microwave Radiometer at some of the airports.
- ❖ Use of Artificial Intelligence in Aviation Instrumentation and message generations.
- ❖ Indigenous design & development of some of the Aviation Instruments being imported presently.
- ❖ Meteorological Instrumentation for Unmanned Airports

### Books and Research Papers

Performance study of Drishti Transmissometer at CAT IIIB Airport, 2015, IMD, K N Mohan, Uday Shende, RR Mali, Shubha V.