

## **DRISHTI- State of the art High Tech Indigenous System for measurement of Visibility at Airports to aid Pilots**

Drishti Transmissometer, a visibility measuring system is an innovative, indigenous product first of its kind, designed and developed by CSIR-NAL to cover the wide span of lowest to highest visibility (< 25 to > 2000 meters) aiding pilots for safe landing and take-off. This cost-effective product is a mandatory system required at all airports as per International Civil Aviation Organisation (ICAO) and World Meteorological Organisation (WMO).

DRISHTI has been issued International Class-I NOTAM. The system is extremely robust with high mean time between failures. DRISHTI uses novel light intensity modulation technique with synchronous demodulation detection. The data acquisition at fieldsite is in FPGA embedded platform with computation of Visibility using “Drishti RVR software” in industry standard Lab View environment. Web enabled health monitoring, remote control of the system from any location in the country for accessing the data and for maintenance are the other important features of this state of the art system. Servicing is made user friendly and cost-effective by modular electronics and virtual instrumentation concepts in the design.

### **Indigenous, Compact, Rugged - near Maintenance free Drishti systems at Various Airports**



*Drishti at NSCB  
Airport, Kolkata  
Dec 2012*



*RWY 29  
New Delhi  
Feb 2015*



*Drishti at Jaipur  
Airport Sep 2015*



*DRISHTI at Ahmedabad June 2016*



*DRISHTI at Lucknow Airport, Nov. 2015*

### **COST EFFECTIVE**

**(1/3<sup>rd</sup> the cost of the Imported Equipment)**

- **27 Drishti systems supplied and installed at Indian Airports under MoU with IMD**
- **IGI Airport, New Delhi is the first airport to have 13nos of Drishti systems in all its 3 runways**
- **MoA with Tata Power SED Company Ltd. for supply of 54 nos. to IAF airfields**

For more information please contact:

Director, CSIR-National Aerospace Laboratories, PB 1779, HAL Airport Road, Bangalore 560 017, India.

Tel: 91-80-25086000, 25270584; email: [director@nal.res.in](mailto:director@nal.res.in); [www.nal.res.in](http://www.nal.res.in)