



## SUN SHINE RECORDER

(As per IS :7243-1974 )



The Sunshine Recorder is used for the accurate measurement of the duration of bright sunshine at a place. The Sunshine Recorder consists of a glass sphere mounted concentrically in a section of a spherical bowl. Three overlapping grooves are provided in the bowl to take cards suitable for different seasons of the year. The instrument is mounted on heavy base, The scale of degree of latitude from -5 to 45 Degree. The sphere support with the glass sphere and bowl can be tilted, adjusted and clamped at an angle to suit the latitude of the station. The focused Sun's rays burn a trace on the card to indicate the period of bright sunshine during the day.

The glass sphere has a focal length of 74.9 mm and having deviation of +/- 0.25 mm. The base of the instrument is good quality marble stone,

The card used in the instrument is made from white pasteboard and has a thickness in between 0.43 mm to 0.48 mm. There are three types of cards used in the instrument, namely Straight, Curved Short and Curved Long. The upper surface of the card is colored to a standard shade of the blue / dark gray colour. The instrument is supplied with one year cards.