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LAKSHMI ENGINEERING WORKS

Mfg & Supp of: Soil, Cement and Concrete Testing Equipment, Survey, Drawing, Hydrological, Metrological, Geological, Scientific Instruments **(All type of Water Current Meters)**

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SUBJECT: PORTFOLIO OF M/S LAKSHMI ENGINEERING WORKS

We take pleasure to introduce ourselves as registered manufacturers & supplier of all kinds of Hydrological & Metrological Instruments as well as River Gauging Instruments.

We are supplying these items to all Government and Semi Government Departments with their entire satisfaction. We are also doing the repair works of these instruments at our workshop. Our all instruments covered a guarantee for one year from the date of supply.

You are therefore requested kindly enlist our firm name on your mailing register & enquire us of our quality instruments, so that we may quote the most competitive prices.

Thanks & Regards

Praveen Dhiman

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SUNSHINE RECORDER

Sunshine recorders automatically registering time and duration of insolation are used at meteorological and climatologically research centers, observatories, spas and health resorts, in agriculture, horticulture, viticulture and vegetable gardening. The instruments are set up on flat roofs or on clear ground in such manner as to be well exposed to solar radiation, during the whole day. The type of instrument to be chosen depends on the latitude of the place installation. This recorder consists essentially of a glass sphere mounted concentrically in a section of a spherical metal bowl, the diameter of which is such that the sun rays are focused sharply on a card held in the grooves, in the bowl. Three overlapping pairs of grooves are provided in the bowl to take up cards suitable for the different seasons of the year.



SUNSHINE RECORDER CARDS

Sunshine Cards are used with a Campbell-Stokes type Sunshine Recorder. The Campbell Stokes sunshine recorder consists essentially of a glass sphere mounted concentrically in a section of a spherical bowl, the diameter of which is such that the sun's rays are focused sharply on the sunshine card held in grooves in the bowl, leaving burn patterns on the sunshine card.

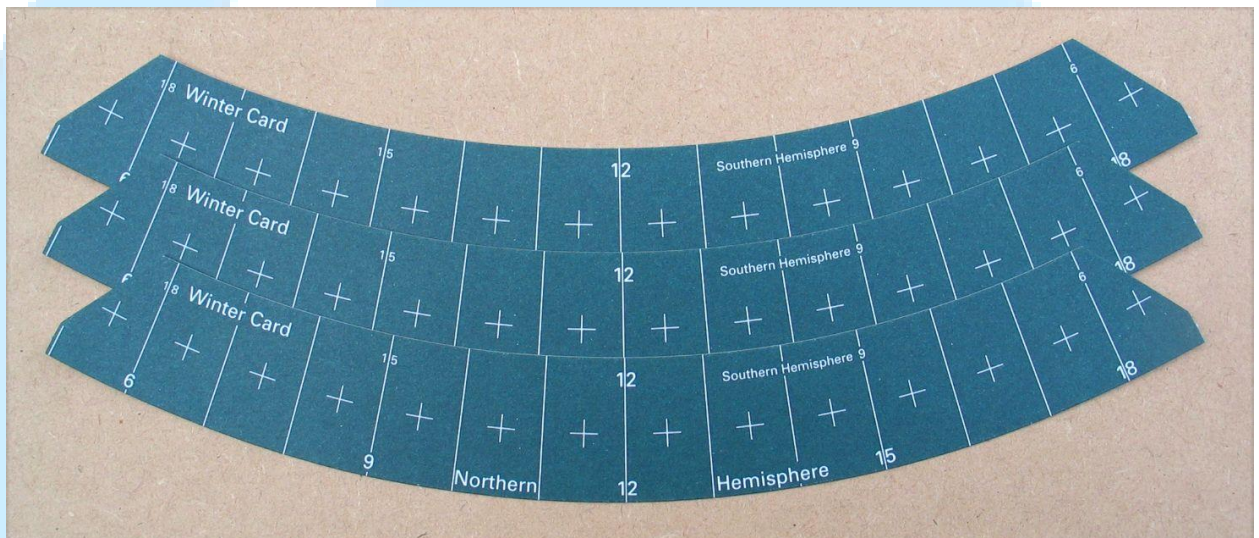
As the earth rotates the position of the burn spot moves across the sunshine card. When the sun is obscured the trace is interrupted. These sunshine cards are marked with hourly intervals. The paper used in these sunshine cards is a special kind, such that the cards char rather than burn. Three

overlapping pairs of grooves are provided in the spherical segment so that the sunshine cards can be suitable for different seasons of the year (one pair for both equinoxes), their length and shape being selected to suit the geometrical optics of the system. Different sunshine cards are used in different seasons.

We have sunshine recorder cards available in various designs to suit a wide variety of manufacturers for the Campbell-Stokes Recorder.

Sunshine cards are available in 3 types:

- Summer (Long Curve) Cards
- Winter (Short Curve) Cards
- Equinoxial (Straight) Cards



LIST OF EQUIPMENTS AVAILABLE WITH US:

- Automatic Weather Station
- Digital Rainfall Recorder
- Digital Rain Gauge
- Digital Evaporation rate recorder
- Automatic Soil Erosion Monitoring System
- Digital Snow Water Equivalent recorder
- Digital Solar Radiation Recorder (Pyranometer)
- Digital Water level Recorder
- Digital Water level Recorder (Pressure type)
- Digital Water level Recorder (Ultrasonic type)
- Water velocity indicator without sensor
- Water Current Meter
- Soil moisture indicator with sensor
- Soil moisture and temperature recorder
- Leaf Wetness, Air temperature and Humidity recorder
- Plant Canopy Analyzer
- Suspended Solids Indicator
- Digital Soil Tensiometer
- Soil Infiltrometer
- Water Level Indicator
- Cup Counter Anemometer (Mechanical Type)
- Wind Vane (Mechanical Type)
- Open Pan Evaporimeter
- Ordinary Rain Gauge
- Tree Height Gauge
- Stevenson Screen (Single)
- Stevenson Screen (Double)
- Aneroid Barometers
- Sunshine Recorder
- Punjab type Silt Sampler
- Winch (80 Kg)
- Maximum - Minimum Thermometer
- Wet & Dry Thermometer
- GPS
- Temperature and humidity sensor
- Wind speed sensor
- Wind direction sensor
- Rainfall sensor
- Water temperature sensor
- Soil temperature sensor
- Solar radiation sensor (Silicon)
- Atmospheric pressure (Barometer) sensor
- Water level sensor (Shaft encoder)
- Water level sensor (pressure)
- Water level sensor (Ultrasonic)
- Evaporation sensor
- Soil moisture sensor
- Snow Water Equivalent (Snow Gauge)
- Leaf Wetness sensor
- Digital Soil Tensiometer sensor