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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)**

172(NEW329), Maktoolpuri, Roorkee- 247667 Distt.-Haridwar (Uttarakhand) INDIA

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Dear Sir,

**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.

Thanking You

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## Automatic Rain Gauge

"LEW" make Digital Rainfall Recorder (Tipping Bucket Type) is a fully computerized, digital and self contained power source system, fitted with Data Logger and battery charging solar panel with rechargeable, maintenance free batteries complete with sealed waterproof enclosure for Data Logger, Solar charger and battery. It comes with facility to transport from Data Logger to a Computer (As per Customer requirement).16x2 LCD alphanumeric display and 4x2 membrane keypad is provided at front panel of data logger for programming data logger and monitoring or reading at site without the help of computer . A tipping bucket (cup) mechanism that triggers a magnetic reed switch once every unit of rainfall. Every pulses by Tipping bucket is counted by Data Logger . Data file is saved in Microsoft's Excel.

### Features & Specifications:

Sensor Input	Tipping Bucket type Rain Gauge.
Measured Parameter	Date, Time, Rainfall (mm), Battery Voltage.
Display:	50/50 MM
Membrane Keyboard:	for on-site programming without help of computer.
PC Software:	"LEW" software for Data download.
ADC Resolution:	16+ bits
Configuration Modes:	Linear Mode
Logging Interval:	1 min to 24 hrs with facility to program log Start time within next 24 hours
Real Time Clock:	Internal with accuracy of +/- 2 minutes /year & leap year compensation.
Memory:	more than 8192 data points ( <i>extendable to more at extra cost</i> ).
Battery :	12V SMF Battery Pack with integral solar charging kit to keep the batteries charged.
Battery Life:	More than 1.5 Years
Battery Monitoring:	Recording
Operating Humidity	0 to 100%, Operating Temp: - 20 to 70 °C
Data retrieval:	Options (as per user requirement)
Data Output Format	MS- Excel

Comes with weatherproof enclosure, Suitable for mounting in a variety of locations.

### Specification of Rain Gauge:

Mechanism:	Tipping Bucket Type
Sensing:	Magnet & reed Switch
Resolution:	0.2mm
Accuracy:	better than $\pm 5\%$ @ 25mm per hour with 27°C ambient Temperature
Operating Temperature:	-4°C to +50°C
Capacity :	Unlimited
Sensitivity:	One Tip (0.2mm rainfall per pulse)
Humidity:	0 to 100%



## 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 Infiltrationmeter
- 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