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Our Services

We do siting and installations of weather stations

1. Repair and Maintenance
2. Weather Station Siting
3. Weather Station Installation
4. Training
5. Weather and Climate Consultancy
6. Weather Station Fencing

Repair and Maintenance

We offer repair and maintenance services for all types of weather instruments.



Weather Station Siting

We assist our clients with siting weather stations following the siting recommendations provided in the WMO-No. 8.



Training and Consultancy

We offer training in the use and maintenance of weather instruments and stations. We also offer consultancy services in the field of weather and climate.



Weather Station Installation

We offer installation services for all kinds of weather stations and instruments, i.e manual, digital and automatic weather stations.



Weather Station Fencing

We provide fencing for weather stations. The dimensions will be 15m * 15m with a pedestrian gate.



METEOROLOGICAL INSTRUMENTS

1. Ordinary Rain Gauge
2. Wind Vane
3. Cup Counter Anemometer
4. Open Pan Evaporimeter
5. Sunshine Recorder
6. Thermograph
7. Hydrograph
8. Barograph
9. Stevenson Screen Large and Small
10. Wet & Dry Thermometer
11. Max & Min Thermometer
12. Automatic Weather Station
13. Pocket Weather Station
14. Digital Rainfall Recorder
15. Digital Recording Rain Gauge
16. Digital Rain Gauge With In-Built Data Logger
17. Digital Solar Radiation Recorder
18. Automatic Wind Monitor
19. Handheld Digital Anemometer
20. Digital Evaporation Recorder
21. Solar Tracker
22. Carbon Dioxide Monitor
23. Pocket Barometer
24. Digital Psychrometer
25. Digital Lux Meter
26. Digital Sound Level Meter
27. GPS Garmin



Ordinary Rain Gauge

Ordinary rain gauge is built in accordance to IS: 5225:1969 from PVC.

Components comprise:

- (i) The funnel, which is removable, and whose diameter is 127mm
- (ii) The container, onto which the funnel fits
- (iii) The bucket which collects the precipitation and is removable



Sunshine Recorder

This sunshine recorder basic main components are bowls which are manufactured from bronze and are precisely machined and assembled. The sphere bowl is made uniformed and well annealed and air bubble free glass having good surface finish the instrument is always supplied with one year recording graph and stencilled curve for comparison.



wind vane

Wind direction will be measured with a wind vane. Wind direction is the compass point from which the wind is coming south, southwest, west etc. the unit of measurement for wind direction is therefore wind direction. User plot the wind direction for each day of the month on a special graph called a wind rose i.e wind vane is manufactured as per IS:5799:1970 which indicates the direction of wind at the point of observation.



Open Evaporation Pan

OPE is manufactured as per IS: 5973:1970. Corrosion Resistant Galvanised & Painted Evaporation Pan with wooded Base. Pointed gauge with calibrated refill jug for correct evaporation reading.



Stevenson screen (Large, Small)

These screens are manufactured as per IS: 5948:1970 and are suitable for housing thermograph, hygrograph, dry and wet bulb. Thermometer and maximum-minimum thermometer. Basically, these are manufactured from best quality Indian wood and accurately assembled with side louvers and supplied



Cup Counter Anemometer

Cup counter anemometer is manufactured as per IS: 5912:1970. For measuring wind velocity. wind run this instrument. Measures the total run of wind passing at the point of observation through mechanical counter of the range 0 to 9999.9



Thermometers

- Max & Min Thermometer
- Wet & Dry Thermometer
- Six' Thermometer (Combined Max and Min)
- Hygrometer (Combined Wet and Dry Bulb)



Hygrograph

The hair hygrograph is an instrument used for recording continuously the relative humidity of the air. The sensor of this instrument is a bunch of human hair. The length of the hair increases as the humidity increases and vice versa. These small changes in length are magnified by means of a lever system such that the movement of the pen is proportional to the relative humidity. The hair hygrograph is kept in the double thermometer screen along with the bimetallic thermograph. The Drum rotates by Daily Quartz Electronic Clock.



Thermograph

This instrument is manufactured as per IS:5901-1970. The instrument consists of a temperature sensitive Bimetallic element, in the form of S flat script or HLIX, connected by a system of Magnifying linkage to a recording pen moving on a chart which is fixed on a drum driven by clockwork available with mechanical clock. The movement is transmitted to the pen point and recorded on a chart fixed on a revolving clock drum.



Barograph

The barograph is a standard model with a register drum and a quartz mechanism to measure the absolute air pressure. Due to a writing arm with a felt tip pen, the barograph allows a recording of one graph of the barometric air pressure on paper over the course of a week. The delivery includes a whole year's supply of those paper rolls. Depending on the model, the barograph will be delivered with a pointer clamping, with 4 or 8 can format, gold-plated in synthetic appearance or stainless-steel design.



Pocket Weather Meter

Measure every major environmental condition with this powerful handheld instrument-barometric pressure, altitude, density altitude, temperature, humidity, wind speed, wind chill, dew point, wet bulb, and heat index. Using its chart mode, they can recall and graph up to 250 measurements, along with storage times and dates. Measurements are stored manually at the touch of a button. Measurements can also be automatically stored

when the unit is turned off. You can even customize screens so that only selected measurements are displayed. Wind speed can be displayed in knots, meters per second, kilometres per hour, miles per hour, feet per minute or Beaufort force.



Digital Rainfall Recorder

Digital rainfall recorder is a self-contained fully automatic rainfall data recorder fitted with solar panel & SLA battery-based power system, high accuracy V Log Data Logger, GSM/GPRS based telemetric modern & power management system contained in a single IP65 waterproof enclosure.



Digital Recording Rain Gauge

The alone counter model displays up to 9.99" of rain and can be reset to zero after each rainfall. The dual counter model features both a current counter which records rainfall in hundredths of an inch with a capacity of 9.99: A long-life alkaline battery is included.



Digital Rain Gauge with in-built Data Logger

The digital Rain Gauge with Inbuilt Data Logger we are offering shows the operating temperature range from 20oC to 70oC. time accuracy: +-1 minute per month at 25oC, Battery life: one-year typical use, Sensors inbuilt are Tipping Bucket Rain Gauge with Read Switch, Resolution and Accuracy: 0.20 mm with 5% up to 100mm/hour and more.



Handheld Digital Anemometer

This instrument comes with dual digital display measures speeds from 5mph to over 125mph. the unique tilting head fold flat for store. Water resistant display can be used in heavy rain. Multi-function display, in mph/h. display current speed plus average or max speed at the same time. Comfortable vinyl handle, 3 cup rotor does not care which way the unit is pointed (unlike those little ones that must be pointed into the wind).



Digital Solar Radiation Recorder

Digital Solar Radiation Recorder is a self-contained fully automatic solar data recorder fitted with solar panel & SLA battery-based power system. High accuracy V-Log Data Logger & power management system contained in a single IP65 waterproof enclosure.

Key features

- Global Solar Radiation sensor with spectral range 305 to 2 899nm.
- Temperature Dependence $\leq 0.1\%$ with WRR traceable calibration
- Fully compatible to Kaizen telemetry modern for GSM/ GPRS up gradation.

Other sensors which could be added to this system are:

- 4 component Net Radiation Sensor
- Measures Shortwave & Longwave radiation separately for incoming and outgoing.
- Pyrgeometer sensor measures Longwave or Infrared component of solar radiation
- Pyrheliometer Sensor measures Direct Solar Irradiance Suitable to be used with solar tracker. First class compliant as per WMO standards.



Digital Evaporation Recorder

Digital Evaporation Recorder manufactured by Kaizen has longer functional life., Low maintenance, Optimum performance, less power consumption and user-friendly design. These features along with customized technical specifications as per clients' demand give the product a standout in the market. The device monitors water evaporation. All the data recorded can be saved in Microsoft Excel format.



Solar Tracker

The two-axis sun tracker V-SOL2A2P is an all-weather positioning platform used to point specialized instruments/sensors at the sun's movement across the sky. It is fully automatic and does not require a computer or software installation to control the tracking of sun movement.

- The integrated GPS receiver automatically configures location and time data. An RS-232 port allows for software upgrades. The high-efficiency gear drive system requires no maintenance.
- The tough and distinctive cast aluminium housing has an integrated tripod stand with levelling feet. A side plate with mountings for a pyrheliometer is included as standard and a second side plate can be fitted for an additional pyrheliometer.
- V-SOL-2A2P does not suffer from internal clock drift because time is updated by the GPS receiver.
- V-SOL-2A2P has been designed to provide reliable, affordable sun tracking for small and medium sized payloads. (Greater than 30Kg). its accuracy is excellent for solar monitoring applications.
- The built-in power supply accepts 12VDC (from Battery) and allows the DC voltage to be used as the back-up.
- V-SOL-2A2P is an all-weather instrument providing optimal performance even in the harshest climates.



GPS Garmin

The GPSMAP 1020xs keyed chart plotter/sonar combo has a 10" colour SVGA display and comes preloaded with a world-wide base map. HD-ID, CHIRP and Down Vu with CHIRP sonar technology are built-in, allowing you the flexibility to choose from several optional transducers.

Key chart plotter /sonar combo with 10" colour SVGA display

- Preloaded worldwide base map
- Built-in Garmin HD-ID TM and supports CHIRP scanning sonar with CHIRP technology
- High sensitivity internal 10Hz GPS/GLONASS receiver
- Supports all Garmin marine radar



Carbon Dioxide Monitor

Max/Min CO2 value recall function. Visible and Audible CO2 warning alarm with relay output for ventilation control. Maintenance free NDIR CO2 sensor are some of the attributes you will notice in our Carbon Dioxide Monitor.



Digital Sound Level Meter

The digital display accurately measures data to 0.1dB. attributes included in the products are: Record Mode which stores maximum levels for later recall and a Max Hold which freezes the maximum reading on the display. Wind screen and 9V battery included. It ranges from 40 to 130 dB. Accuracy :+2dB @ 94dB. Resolution: 0.1dB. Dimensions: 9" * 2.2 * 1.7".



Digital Lux Meter

Features:

- Light weight
- USB power supply
- High reliability and durability
- Low battery indicator
- Clear display on LCD panel
- Compact Designs
- High Accuracy and Wide Measurement Range



Pocket Barometer

Pocket Altimeter is the other name for Pocket Barometer. English, 100" graduations. Ranges: 0 to 15, 000. 17 to 31,5" Hg. This product indicates altitude accurately up to 15,000 feet and also displays a Barometric pressure. Features a weather trend indicator which predicts fair or stormy weather. Measuring 2,25" in diameter.



Digital Psychrometer

Digital Psychrometer manufactured by us shows Humidity, 10% up to 90% RH, Temperature (Internal), -4oF to 122oF (-20oC to 50oC), temperature (External), -4oF to 158oF (-20oC to 70oC), Dew Point, -90,4oF to 122oF (-68,0oC): Wet Bulb, -6,9oF to 122oF (-21,6oC to 49,9oC). Maximum Resolution: Humidity, 0,1%RH: Temperature (Internal and External).



Handheld Pyranometer

Handheld Pyranometer (Solar Radiation Recorder) reflect state of the art in micro controller-based instrumentation design. The Pyranometer sensor can be attached with this handheld terminal for the collection of real time data. Manually/automatically (user selectable). The terminal has its internal memory along with, a real time clock with an LCD (16*2) to display the instrument status. It is a self-contained power source system,

fitted with 2 * AA Alkaline tyre batteries with battery level display, complete with sensor mounted on a levelling base plate. Sensor powered directly from Handheld terminal and no need of external power source, 4*2 keypad is provided for programming data logger and monitoring sensor reading at site without the help of a computer.



Automatic Weather Stations – Large Networks

The product offering is typically a station as depicted in the picture. It typically measures wind speed and direction, temperature and humidity, solar radiation and precipitation. Barometric pressure will sometimes be added.



Automatic Weather Stations – Researchers

The product offering is typically a station as depicted in the picture. It typically measures wind speed and direction, temperature and humidity, solar radiation and precipitation. Researchers will often add a number of additional parameters such as soil moisture, soil temperature, leaf wetness, net radiation etc. Advanced researchers can order full Eddy Covariance (EC stations). This typically add 3D Sonic Anemometers, Open Path CO2 Gas Analyser and Soil Heat Flux Plates.



Flood Warning – Hydrological Stations

The product offering is typically a scaled down offering from a normal weather station and will often only measure water level in a stream. More advanced stations will also measure water velocity (m/s) and can even calculate volume of flow (m³/s)

The core purpose of these stations are to provide early warning of a possible flood. The stations must be able to communicate sudden rises in water level to a control centre. Reliability of communications are important and often satellite communications will be prescribed



Wind Prospecting

The picture shows a typical 80m wind mast used for wind prospecting. A wind farm of 9 * 3MW wind turbines cost approximately US\$ 50 million to develop.



Solar Prospecting

The picture shows a typical solar prospecting station. A large solar farm can easily cost more than US\$ 300 million to develop.

HYDROLOGICAL INSTRUMENTS

1. Cup Wave Water Current Meter
2. Pygmy Size Water Current Meter
3. Propeller Type Water Current Meter
4. Universal Water Current Meter
5. Export Quality Water Level Recorder
6. Digital Water Level Indicator
7. Sediment Silt Sampler (Punjab Type)
8. River Staff Gauge
9. Water Velocity Indicator
10. Hand Held Digital Pyrometer
11. Temperature Humidity Logger
12. Radar Type Water Level Recorder
13. Digital Water Level Recorder
14. Clamb On Portable Ultrasonic Flow Meter
15. Echo Sounder
16. Digital Depth Sounder
17. Suspended Solids Indicator
18. Ground Water Level Recorder
19. Float Type Digital Water Level Recorder
20. Bridge Outfit



Cup Type Water Current Meter

Using a cable with sinking weight or wading rod and will accurately measure stream flow velocities from 0.3 to 3.5 meters per second with cups. (Also available in measuring range up to 6 meter per second). The cup type current meter manufactured as per IS 3910-1966. You can connect this current meter to an automatic counter/ Water Velocity Indicator (Sold Separately). The calibration chart provided with the meter gives the velocity in m/sec.



Pygmy Size Water Current Meter

This current meter used with wading rod and will accurately measure shallow stream flow velocities from 0.01 to 3.5 meters per second manufactured as per IS3910-1966. You can connect this current meter to an Automatic counter/Water velocity Indicator (sold separately). The calibration chart provided with the meter gives the velocity in m/sec.



Propeller Type Water Current Meter

This current meter is suspended in the water using a cable with sinking weight or wading rod and will accurately measure stream flow velocities from 0.3 to 3.5 meters per second with multiple propellers.

- Accurate measurement
- Permanent magnet mounted on its shaft
- Equipped with water velocity indicator



Universal Water Current Meter

Universal Water Current Meter delivers for conviction of current velocities in water courses, canals, rivers and the sea. The equipment wallet will be vigorous interpretation made of Aluminium with locking arrangements. Velocity Range: 0.04m/s, Meter Material high quality non-corrosive Brass is being used in body.



Export Quality Water Level Recorder

Export Quality water level indicator is a trustworthy instrument for measuring the level of water and total deepness in boreholes, well, reservoirs etc. For the measurement, the bob is lowered to the water level. When touching the level, a sensor effects the illumination of signal lamp. On request, an addition acoustic signal will be released by a buzzer. When the probe is touching the water level there is a conducive connection between the tip of the probe and the sensor body thereby a circuit of the lamp and the buzzer will be closed.



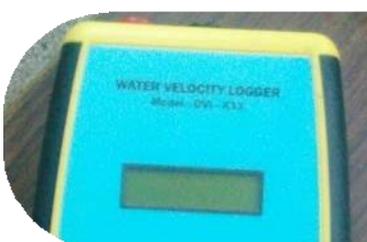
Digital Water Level Indicator

Accurate reading, corrosion resistant electrodes, longer service life and rugged construction are some of the attributes of the product. Reel handles are shaped to fit your hands. Accurate to +1 of reading. Each Water level Indicator is supplied with a battery.



Sediment silt sampler (Punjab Type)

Metallic one liter bottle held vertically in the metallic frame at one of an adequate length of pipe with lever attached to the lower end and a flexible wire running with the help of one spring and lever for opening and closing the mouth of bottle fitted with rubber cock during sampling.



Water Velocity Logger

This is a small electronic handheld device that can be used to measure flow velocity from mechanically rotating current meter. A superior feature of the DVI-K13 is its ability to store up to five current meter data at a time and interface directly to a laptop, pocket PC, or other computing device and provide data in Ms Excel file format that can be used externally to computer discharge.



Radar Type Water Level Recorder

- Non-contact type water level measurement
- Automatically recorded data in attached Data Logger
- User programmable logging rate
- Lake pond level analysis
- Irrigation canal
- Suitable for long term unattended installation where boulders or high silts are present in water system



Digital Water Level Recorder

Be benefitted by great quality water level recorder which consist weather proof enclosure long life service.

Features:

- Based on Float Counter Weight type sensor
- Automatically records data in attached data logger



Digital Depth Sounder

Depth Sounder delivers precise real time depth readings from 2' to 240' with the slide of a magnetic switch slide the switch again to obtain current water or air temperature. Algorithmic programming reduces false readings and Shot -Thru Technology TM even allows reading through ice or boat hulls. In addition to a backlit LCD, the depth sounder features automatic gain and sensivity adjustments as well as an impact-resistant housing that floats. The depth sounder is also submersible to 150' for use as a range finder during snorkelling and diving. Wrist strap included. Two-year manufacturer's warranty. Sonar Frequency: 200k Hz, Beam Angle:20o, Operating Temperature Range: -10oF to 160oF. Power: one 9V battery. Waterproofing: IPX8 (150 feet).

The depth sounder is also submersible to 150' for use as a range finder during snorkelling and diving. Wrist strap included. Two-year manufacturer's warranty. Sonar Frequency: 200k Hz, Beam Angle:20o, Operating Temperature Range: -10oF to 160oF. Power: one 9V battery. Waterproofing: IPX8 (150 feet).



Suspended Solids Indicator

The suspended solids indicator is a state of the art, easy to use meter that provides many benefits to the plant operations staff. The microprocessor-based electronics of the indicator provide a high degree of flexibility ease of use. Data logging and the ability to download the data directly to a computer are optional features. The indicator uses the sensor, which operates on the principal os single gap light absorption as the means of

determining the concentration of suspended solids. The sensor was specifically found in aeration basins (1000mg/L to 5000mg/L) and RAS streams (7000mg/L to 20000mg/L) of waste water treatment plants. There are independent calibration points for each. Furthermore, a 15L low range sensor (0-1000mh/L) is also available. The sensor was designed to measure very low solids concentrations typically found in secondary clarifier and plant effluents.



Ground Water Level Recorder

Ground Water Level Recorder (Pressure Type) DWRL-G-P is a Micro controller based Digital Water Level Recorder reflect state of the art in Micro Controller based instrumentation design for the measurement /logging of real time water level, data with date & time stamping. The water Level Recorder is suitable for the installation in Ground water bore wells/pipes. Tanks, open canals/channels etc.

The Water Level Recorder has its internal 4GB Memory which is sufficient for storing more than 10,000,000 data points. Integral cable contains a vent tube for Barometric pressure compensation, comes with different ranges 10, 20,50, 70, 100, 150, 200, 300 meters. DWLR-G-P can be configured via user-friendly PC based software within lab environment as well as in field using Laptop. Data file download from DWLR will save in Microsoft's Excel file format. This instrument is used for ground/wells. Open channel, dam and lake level monitoring.



Float Type Digital Water Level Recorder

Water Level Recorder (Float Type) reflect state of the art in micro controller-based instrumentation design. The shaft encoder type water level sensor attached with this data logger for the collection of real time data automatically. This micro controller has its internal memory along with, a real time clock with an LCD (16*2) to display the instrument status. Comes with standard range 10 meters. Data file is saved in Microsoft's Excel. A durable hard enclosure protects the data logger from weathering. This instrument is



Echo Sounder

Our enormous spectrum of echo sounder is favoured for easy installation, anxiety free accomplishment, compact design and flexibility and for its light weight. Proficient uses the product for weighing physical and biological components of water.



River Staff Gauges

River Staff Gauges are useful for the manual measurements of River/Canal/Lake water level. Different sizes and types for river staff gauges.



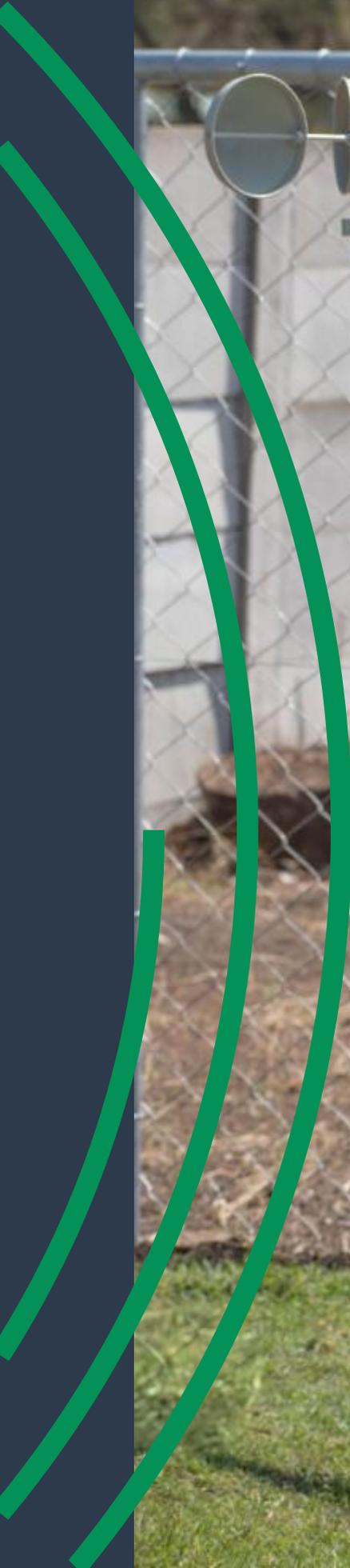
Humidity /Temperature Data Logger

USB interface for easy setup and data download

- Selectable data sampling rate: 1 second to 24 hours
- User-programmable alarm thresholds for RH and Temperature
- LCD displays current readings, Min/Max and alarm status
- Complete with 3,6V Lithium battery, mounting bracket with combination lock and Windows @ complete with lock, and Windows @ 2000, XP Vista and 7 compatible analysis software.

The bridge outfit

The bridge outfit is used to suspend current meters and samplers from a bridge into a river or canal. Bridge outfit is a design that operates reliably and safely under the prevailing environmental conditions. All exterior are non-corrosive. The outfit consists of a crane and a winch arrangement. The bridge outfit shall be provided with a clamping facility to hold the cable at any desired position. This assembly shall be mounted on a moving crane. The crane trolley shall be mounted on a moving crane. The crane trolley shall have 4 wheels with solid rubber tyres for easy movement. The cable from which the current meter is suspended have an incorporated insulated electrical conductor.





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