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FreedPer Scientific



FreedPer Scientific



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Welcome

We are suppliers of Meteorological Instruments, Hydrological Instruments, Laboratory Instruments, Soil Testing Instruments and Petroleum Testing Instruments.



Who we are

FreedPer Scientific is a company that sells manual, digital, and automatic weather, hydrological and laboratory instruments as well as soil and petroleum testing instruments.

Apart from supplying instruments, FreedPer Scientific also provides consulting services. Additionally, FreedPer Scientific offers installation services for instruments that need to be permanently put up, such as weather, hydrological, laboratory, petroleum, and soil testing equipment. We also provide instruction on how to operate and maintain our instruments.

The characteristics of FreedPer Scientific Measurement Solutions include:

- Precision in measurements
- Product trustworthiness
- Stability throughout time
- A wide range of data management abilities

What drives us



Vision

To be the leading supplier of weather, hydrological, laboratory, petroleum testing and soil testing instruments in Sub-Saharan Africa.



Mission

FreedPer Scientific works to supply economic and social sectors with state-of-the-art weather instruments, hydrological instruments, laboratory instruments, petroleum testing instruments and soil testing instruments. mutual respect and understanding,



Values

- We believe in treating our customers with respect and faith
- We grow through creativity, invention and innovation.
- We integrate honesty, integrity and business ethics into all aspects of our business functioning.



Goals

- To develop a strong base of key customer.
- To build good reputation and become a key player in the industry.

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

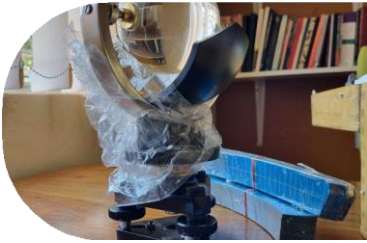
Ordinary rain gauge is built in accordance to IS: 5225:1969 from PVC.

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 viny 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 fenclouser.

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.

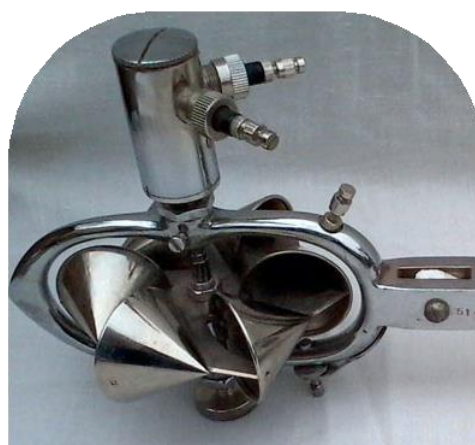


Solar Prospecting

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.



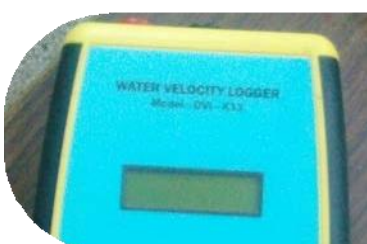
Digital Water Level Indicator

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 sensitivity 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).



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.



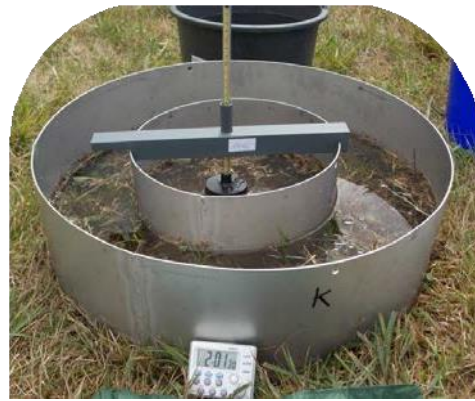
Ground Water Level Recorder

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.

SOIL AND PLANT TESTING INSTRUMENTS

1. Double Ring Soil Infiltrometer
2. Leaf Wetness Air Temperature & Rh Recorder
3. Soil Moisture & Temperature Recorder
4. Soil Tensiometer Gauge Type
5. Soil Moisture Cum Ph Meter (Takemura Make)
6. Soil Sampler
7. Soil Moisture
8. Soil Test Direct Soil Ec Tester
9. Soil Tensiometer (Imported)
10. Electronic Clinometer
11. Spherical Crown Densitometer
12. Cone Penetrometer
13. Soil Thermometer
14. Tree Height Gauge
15. Chlorophyll Concentration Meter
16. Plant Canopy Analyzer



Double Ring Soil Infiltrometer

The Double Ring Soil Infiltrometer is a simple instrument which is used to determine the infiltration rate of water into the soil. This rate is determined as the amount of water per surface area and time unit, which penetrates the soil. This rate can be calculated on the basis of the measurements and the Darcy's law. As vertically infiltrated water runs away to the side. The outer ring of the Infiltrometer serves as a separation. The measurement exclusively takes place in the inner ring through which the water runs vertically. The instrument consists of two rings, driving plate, for inner and



Leaf Wetness Air Temperature & RH Recorder

The system consists of a weather proof enclosure which contains the data logger and power supply and comes complete with a solar panel, tripod stand and leaf wetness. Air temperature & Humidity sensors (One each).

For the most accurate disease prediction, the leaf wetness sensor, designed to mimic the surface area of a leaf, use electrical resistance to measure the level of surface moisture on foliage, whether caused by rain fall, dew or spray. the leaf wetness sensor enables the data logger to detect the presence of surface moisture on foliage and calculate the duration of the wetness.

When moisture is present, the sensor detects an electrical resistance change between the gold-plated elements of the grid. This is displayed and recorded by the data logger as a wide as a value between 0% to 100%.



Soil Tensiometer Gauge Type

Tensiometer provide direct measure of the tension at which water is held in soil and therefore the suction plant roots need to exert in order to extract water. This instrument comprises a water filled tube which is sealed at one end, with a porous ceramic filter at the other end. The specifications of this filter are such that, when buried in soil, it will allow water to flow freely through it, but not air. Tensiometer is available in standard lengths of 15,30,45,60,90,120 cm. general use with row tree and field crops. Includes reservoir, air free gauge chamber, and hermetically sealed dial type vacuum gauge with dual scale of millibars (-1000 to 0) and mmH (-760 to 0) range.



Soil Tensiometer Gauge Type

Automatic soil moisture suction & soil temperature recorder is a complete system for monitoring, logging and graphing 7-point soil moisture & 1 point soil temperature readings. Automatically reads the sensors, 12v battery powered monitor, battery charging through solar panels. Reading frequency from every minute to every day and adjustable to suit you every day and adjustable to suit you,

8 sensor capacity includes temperature probe. In-field display of current reading, download the history of current reading, download the history to a computer through pocketable data shuttle, monitor current values. Data is saved in Excel format and can be exported.



Soil Tensiometer (Imported)

Tensiometer provide a direct measure of tension at which water is held in soil and therefore the suction plant roots need to exert in order to extract water. This instrument comprises a water filled tube which is sealed at one end with a porous ceramic filter at the other hand.

The specifications of this filter are such that, when buried in soil, it will allow water to flow freely through it but not air. Tensiometer is available in standard lengths of 15,30,45,6,90,120cm. general use with row tree, and field crops. Include reservoir, air free gauge chamber and hermetically sealed dial type vacuum gauge with dual scale.



Soil moisture cum PH meter (Takemura)

A sensitive electrode measure pH values from 3.5 to 8, soil moisture from 0 to 100%. Requires no chemical, distilled water, or outside electric power source. Numerous readings can be easily taken over by large areas. 6-1/2; 'LL ether like case with belt loop and full instructions included. pH Accuracy: +-0.2, Moisture accuracy; +-10%.



Soil Test Direct Soil Ec Tester

Light weight and portable, this pocket tester directly measures soil conductivity and temperature. The penetration probe features a built in temperature sensor, allowing for measurements that are automatically temperature compensated. The conductivity range can be calibrated at one point and tester calibration is done in a standardized solution. Includes tester, 4.5' penetration conductivity probe, calibration screwdriver, batteries and instructions.



Soil Thermometer

It is used for measuring temperature of inner layer of soil. Provided with brass body with cone having natural brass finish. Available with cone size of 75mm, 150mm. fitted with yellow back mercury/alcohol filled thermometer, temp range -10 to 50oC. Thermometer fitted with wooden case.



Soil Moisture Tension Meter

Soil moisture tension meter, used with the soil, moisture sensors, and soil temperature sensor, make up a valuable system to monitor the soil moisture. Tension & temperature available in your soil, you can use as many sensors as you like at representative sites, then using the digital soil moisture meter you can read each sensor individually as frequently as necessary. The importance of water to plant growth is well known also as effective irrigation should be properly controlled in quality and timing.



Cone Penetrometer

Simple and light instrument for measuring static penetration resistance. The thrust force is provided directly by the operator who, by pushing on the T Handle, forces the cone into the soil. The encountered resistance is measured on the fitted ring. Testing is only possible in soils with good consistency and for short depths.

- 1 cone with 30° cone angle
- 2KN (200kg f) load ring
- Road length 45cm



Tree Height Gauge

This mirror sighting height gauge is great for teaching students how to quickly determine tree heights. Easy to follow instructions are embossed onto its rugged plastic shell, detailing the gauge's four-step measuring method and height finding.



Spherical Crown Densiometer

Accurate one person measurement of tree canopies. Measure forest overstory density from unobstructed sighting position. The instrument uses a spherical shaped reflector mirror engraved with a cross-shaped grid of 24 quarter inch squares. To take readings hold the instrument level, 12' to 18' in front of body and at elbow height.



Electronic Clinometer

Electronic Clinometer provides accurate height and angle measurements quickly and easily. Height measurements can be taken from any distance or position because no fixed distance to the objects being measured is required, function selection is simple.

LABORATORY TESTING

1. Autoclave Vertical
2. Bod Incubator
3. Distillation Apparatus Barnstead Type
4. Heating Mantle
5. Incubator Bacteriological
6. Lab Ball Mill
7. Hot Oven
8. Muffle Furnace
9. Orbital Shaking Incubator
10. Rotator Shaker Horizontal
11. Seed Germinator Single Chamber
12. Shaking Machine
13. Vacuum Oven
14. Vdrl Shaker
15. Water Bath
16. Wrist Action Shaking Machine
17. Ultrasonic Cleaner Bath
18. Ph Meter
19. Magnetic Stirrer with Hot Plate
20. Conductivity Meter



Autoclave Vertical

Outer body made of thick S.Steel finished oven baked enamel. Inner chamber will be thick S.Steel. The chamber is absolutely leak - proof and it can be operated at any selective point in between 5 - 20 pound/Sq. inch. The lid is made of thick mild steel sheet duly lined with S.Steel with pedal lifting arrangements and radial locking devices to work on 220/230 V Ac supply.



Heating Mantel

Electric heating net in hand knitted from glass yarn and there is no joint to maintain the strength of the yarn and stands high temperature up to 350 degree C. The body of the mantel is spun one piece from S.Steel duty staving painted. All heating mantles are legged with special mineral wools to work on 220/230 V AC supply. Moisture on foliage and calculate the duration of wetness. When moisture is present, the sensor detects an electrical resistance change between the gold-plated elements of the grid.



B.O.D. INCUBATOR

Double walled chamber with interior walls made of S.Steel. The exterior is made heavy mild steel finished with stoving white enamel. The door is also a double walled construction. The temperature range is from 5 - 60 Degree C, with an accuracy of +/-0.5 Degree C, controlled by Digital temperature controller cum indicator. Temperature below ambient is maintained by a hermetically sealed Techmumshah/Kirloskar condensing unit/

compressor with complete unit provided at the bottom, Complete with S.Steel Trays, two air circulations fan and unbreakable acrylic transparent, inside door. To work on 220/230 V, single phase AC Supply.



Incubator Bacteriological

Temperature range up to 90 Degree C. Heating elements are placed in ribs on all the three sides. Doubled walled inner chamber made of anodized S. Steel. Outer chamber of M. Steel duly painted. Door has double glass window to view samples. Built in Horizontal L shaped thermometer & perforated adjustable shelves. To work on 220/230 V AC. Supplied with or without Air circulating fan.



Distillation Apparatus Barnstead Type

Its double walled the outer is made of M.Steel painted with white stoving enamel and inner (Boiler) is made of S.Steel. The gap between walls is filled with special grade glass wool to avoid lots of heat. The condenser is made of S.Steel. The top of boiler is made of S.Steel sheet or Chromium plated die casted gun metal.



Lab Ball Mill

For mixing and grinding electricity operated. Having capacity up to 1 kg fitted with FHP geared motor with maximum speed of 80 RPM. Jar is made of aluminum having steel balls of different sizes. Jar is inter-Chargeable and easily removed to operate on 220 V.



Hot Oven

Outer body made of mild steel is powder coated/painted. Temp. Thermostatically controlled by hydraulic thermostat from 50 degree C. Elements are at the bottom and sides. Built L Shape thermometer.



Muffle Furnace

Light weight with ceramic fiber wool insulation (Instead of brick insulation). The distinct feature of perforated sheet is to prevent the temperature control unit from very high heat. Heating elements are made of KANTHAL A1 wire of coil form embedded on the muffle with high grade refractory cement and backed by high temperature cer-wool insulation which avoids loss of energy. This arrangement will ensure the most uniform kind of distribution

of heat. Temp. Control unit consists of energy regulator, fitted in front of furnaces with two pilot lamps. The apparatus is complete with one pyrometer, thermocouple, silver thermal fuse, main lead with power plug to work on 220/230 V.



Digital Colony Counter

Complete with special pen, which allows marking and counting simultaneously. Counting its retransfer at Digital Panel re-settable solid setting counter, a magnifying glass is provided. A fluorescent light is provided for uniform light illumination.



Sieve Shaker

This can accommodate up to 7 sieves of 6" to 8" dia and is driven by ¼ H.P. Electric Motor through reduction gear. Every part of the sieves is utilized by the constant upward and downward movement. The whole gear mechanism runs in oil bath supplied without test sieves suitable for operation on 220 Volt AC.



Conductivity Meter

It consists of TDS and manageable temperature compensation to maintain accuracy. It has a function of automatic power off with disable feature. Complete with Conductivity cell and 39" (1m) cable, 9V battery, and soft case. It requires low maintenance, the convenient design. These Equipments are designed in such a way that they are easy to use even in the harsh environments. They are waterproof and have enough memory to store the data.



Laboratory Stirrers

Mini Stirrer: Fitted with 1/50 H.P. Motor 1200 RPM without controller complete on adjustable stand.

Lab Stirrer: with 1/20 H.P. Motor 4000 RPM with speed regulator

Lab heavy duty stirrer: with ¼ H.P. Motor with speed regulator



Abels oil & Gas Model

This apparatus is suitable for determining the close cup flash point of petroleum and mixtures according to IP-33 and IP-170 and also IS 1448 (Part-I) 1985. It is suitable for oils whose flashes below 70°C. It is supplied with oil cup coverfitted with stirrer thermometer socket S.S. water bath stand. An electric heater is fitted to bottom for operation on 220vAC circuits.



Dean & Stark apparatus

For estimation of moisture in lubricant oil as per IP-47 Electrically heated. Complete with stand, heating mantle with energy regulator, clamp, 500ml flask & glass parts.

PETROLEUM TESTING INSTRUMENTS

1. Cloud And Pour
2. Cloud & Pour Point Apparatus
3. Kinematic Viscometer Bath (Glass Type)
4. Kinematic Viscometer Bath
5. Pensky Marten Flash Point Apparatus (Open Type)
6. Bomb Calorimeter
7. Abels Oil & Gas Model

Trade References

Current Customers		Description, Date, Purchase Order Value, Contact name, address, telephone number and email address	
1.	Name of Customer 1:	Full Description of what was supplied	Automatic Weather Station
	CARE International – Zimbabwe	<i>Agreement Date</i>	15 March 2023
		<i>Order Value for the Agreement or Purchase Order</i>	Nineteen thousand three hundred and eighty-four United States Dollars dollars twenty-eight cents (USD19,384.28)
		Contact names:	Nyaradzo Mutaramutswa
		Phone No:	+263 782 122 276
		Physical Address:	124 Churchill Road, Gunhill, Harare, Zimbabwe
		E-mail Address:	Nyaradzo.Mutaramutswa@care.org or
2.	Name of Customer 2:	Full Description of what was supplied	Various Weather Equipment
	1. African Development Bank 2. Ministry of Finance, Economic Development and Investment Promotion 3. Meteorological Services Department	<i>Agreement Date</i>	8 November 2023
		<i>Order Value of Order</i>	Forty-Seven Thousand Seven Hundred and Fifteen and twenty cents (USD47,715.20)
		Contact names:	Mr Munemo
		Phone and Cell No:	+263 77 435 8475
		Physical Address:	6 th Floor, Kaguvi Building, Harare, Zimbabwe
		E-mail Address:	davidmunemo@gmail.com
3.	Name of Customer 3:	<i>Insert- Full Description of what was supplied</i>	Complete Manual Weather Station Set for a School – Cup anemometer, 127mm PVC rainguage, 25mm glass measuring clinder, wind-vane, hygrometer, six's thermometer
	Gateway Primary School	<i>Agreement Date</i>	31 August 2023
		<i>Order Value for the Agreement or Purchase Order</i>	Three thousand one hundred and fifteen United States dollars only (USD 3,115.00)
		Contact names:	Mrs L. Mahaso
		Phone No:	+263 77 243 3101
		Physical Address:	The Chase, Emerald Hill, Harare, Zimbabwe
		E-mail Address:	Irmahaso@gmail.com
4.	Name of Customer 4:	<i>Insert- Full Description of what was supplied</i>	Complete Manual Weather Station Set for a School – Cup anemometer, 127mm PVC rainguage, 25mm glass measuring clinder, wind-vane, hygrometer, six's thermometer
	Chisipite Senior School	<i>Agreement Date</i>	September, 2014
		<i>Order Value for the Agreement or Purchase Order</i>	Three thousand six hundred United States dollars only (USD3600)
		Contact names:	Mrs Chigumutse
		Phone No:	+263 71 260 1603
		Physical Address:	Chisipite Senior School, Hindhead Ave, Chisipite, Harare, Zimbabwe
		E-mail Address:	ochigs@gmail.com



Zimbabwe Revenue Authority



TAX CLEARANCE CERTIFICATE (ITF263)



Your Tax position is Satisfactory. No tax should be withheld

Validity Period (from-to): 1 January 2024 - 30 June 2024

TIN 2001106908

Taxpayer Name Freedper Investments (Pvt) Ltd

Trade Name: Freedper Scientific

Issued on: 16/02/2024

Authentication Code: 47111464

The authentication and validity of this certificate must be validated on ZIMRA page: mytaxselfservice.zimra.co.zw using the Authentication Code or QR Code

ZIMRA reserves the right to withdraw this certificate at any time, should it become necessary during the period for which this certificate is valid





PRAZ REGISTRATION CERTIFICATE

2024

This is to certify that **Freedper Investments Private Limited (PR148940130)** is registered with the Procurement Regulatory Authority of Zimbabwe in terms of section 4 of the Public Procurement and Disposal of Public Assets(PPDPA) (General) Regulations, 2018 for category:

Meteorology systems(GY001)

Issued On	22-Feb-2024
Expires On	31-Dec-2024
Verification Code	PRAZ-2024-788-YBN-11812

The Procuring Entity reserves the right to confirm, validate and determine the authenticity of this certificate using the above verification code on the eGP System.





National Social Security Authority
Compliance Certificate

This is to certify that

FREEDPER INVESTMENTS PRIVATE LIMITED

Trading as: **FREEDPER INVESTMENTS PRIVATE LIMITED**

Social Security Registration Number: **0224207V**

is in full compliance with Statutory Instruments 393 of 1993 (Pension & Other Benefits Scheme) and 68 of 1990 (Accident Prevention & Workers' Compensation Scheme) as read with National Social Security Authority Act Chapter 17:04.

Number of Insured Employees: 1

Validity Period: **01 January 2024 To 31 March 2024**

Verification code: **VK8NKJRK**

The authenticity and validity of this certificate must be verified on NSSA page.
Scan QR code or visit

<https://selfservice.nssa.org.zw/ComplianceCertificate/Verification>





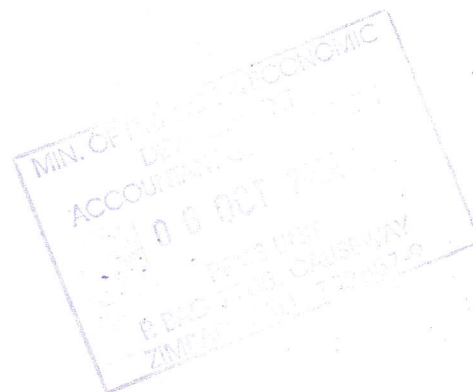
MINISTRY OF FINANCE AND ECONOMIC DEVELOPMENT
(PUBLIC FINANCE MANAGEMENT SYSTEM)

2022 APPROVED VENDOR CERTIFICATE

THIS IS TO CERTIFY THAT **FREEDPER INVESTMENTS (PVT)LTD** SITUATED AT NO. 13 SHUMBA ROAD, MSASA, HARARE, ZIMBABWE

Is a registered and approved vendor in terms of the Public Finance Management Act Chapter 22:19

Vendor number 722369





A MEMBER OF THE  OLD MUTUAL GROUP

Head Office, Northend Close,
Northridge Park, Highlands
P.O. Box 2798, Harare, Zimbabwe
Telephone: +263 (024) 2883823,
Fax: +263 (024) 2883804
E-mail: management@cabs.co.zw

08 February 2023

TO: Whom It May Concern

Dear Sir/Madam

REF: CONFIRMATION OF ACCOUNT DETAILS – FREEDPER INVESTMENTS PVT LTD

This letter serves to confirm that Freedper Investments (Pvt). Ltd. holds an account with CABS and details are as follows:

Name	Freedper Investments (Pvt). Ltd.
Account number	1146255535
Account Type	USD Nostro Account
Swift code	CABSZWA
Bank code	24000

All necessary assistance you may render to them in this regard will be greatly appreciated.

This information is given without any responsibility on the part of the bank or any of its officials and informants.

Yours faithfully



Stencila Chayiruka
BRANCH MANAGER – CHISIPITE BRANCH





Contact us



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FreedPer Scientific



FreedPer Scientific



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