







Environmental/Analytical Lab Civil Engineering Lab Equipment

<p>DIGITAL PH METER</p> <p>Display : 3.5 Digit LED. Range : pH 0 to 14.00, mV 0 to ± 1999. Resolution : pH 0.01, mV 1. Accuracy : pH ± 0.01, mV ± 1 mV. Temp. Compensation : Auto 0 to 100 deg. C., Manual 0 to 100 deg. C. Slope Control : 80 to 120%. Power : 230V $\pm 10\%$ 50 Hz AC.</p>	
<p>MICROPROCESSOR PH METER</p> <p>Display : 16 X 2 Alpha Numeric LCD Display. Range : pH : 0 to 14.00, mV : 0 to ± 1999.9. Resolution : 0.01 pH, 0.1 mV, Temp. 0.1°C. Accuracy : ± 0.01 pH, $\pm .1$ mV, Temp. $\pm 1^\circ\text{C}$. (Auto/Manual). Temp. Compensation : 0 to 100°C. Calibration : Auto / Manual. Storage : Up to 100 Samples. Power : 230V $\pm 10\%$, 50Hz AC. Auto Buffer Recognition : Auto 4.00, 7.00, 9.20 pH.</p>	
<p>DIGITAL TURBIDITY METER</p> <p>Display : 3.5 Digit LED. Power : 230V $\pm 10\%$ 50 Hz. Range : 0 to 1000 NTU in 2 ranges. Resolution : 1 NTU. Accuracy : $\pm 3\%$ FS ± 1 Digit. Sample System : 30mm Clear Glass Test Tubes. Light Source : 6V - 1Amp. Tungsten Lamp. Detector : Photocell/Photodiode.</p>	

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<p>DIGITAL TDS METER</p> <p>Display : 3.5 Digit LED. Power : 230V \pm 10% 50 Hz. Range : 0 to 1000 ppt in 5 Ranges. Resolution : 0.1ppm. Accuracy : \pm 2% FS \pm 1 Digit. Temp. Compensation : 0 to 50 deg.C. Measuring Cell : Platinum Dip Type.</p>	 <p>A rectangular digital TDS meter with a red LED display showing '8888'. It has three control knobs on the right side and a label 'DIGITAL TDS METER' on the front panel.</p>
<p>DIGITAL CONDUCTIVITY METER</p> <p>Display : 3.5 Digit LED. Range : 5 Ranges, 0 to 1000 Mhos / cm. Accuracy : \pm 1 % FS \pm 1 digit. Temp. Compensation : Auto / Manual 0 to 50 deg.C. Cell Constant : Adjustable Sensor : Conductivity Cell Power : 230V \pm 10% 50 Hz. AC.</p>	 <p>A rectangular digital conductivity meter with a red LED display showing '0.320'. It features a row of five range selector buttons labeled '100', '1', '10', '100', '1000' and 'CELL', and a 'CALIB' knob below the display.</p>
<p>DIGITAL DISSOLVED OXYGEN ANALYSER CUM TEMP. METER</p> <p>Range : 0 to 20.0ppm. Resolution : 0.1ppm. Accuracy : \pm 0.2ppm. Temp. Compensation : 0 to 50 deg.C Manual. Display : 3.5 Digit LED. Stirrer : Provided. Power : 230V \pm 10% 50 Hz AC. Sensor : DO Amperometric Gold / Silver Temp.RTD (PT-100). Time Response : 10 Sec.</p>	 <p>A rectangular digital dissolved oxygen analyser with a red LED display showing '0.045'. It has several control knobs and buttons on the front panel, including a 'CALIB' knob and a 'TEMP. COMP. MODE' selector.</p>

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<p>WATER & SOIL ANALYSIS KIT</p> <p>Display : 3.5 Digit LCD.</p> <p>PH:</p> <p>Range & Resolution : Resolution pH 0 to 14.00 & pH 0.01. Accuracy & Temp. Comp. : pH 0.01 ± 1 Digit & 0 to 100 Deg. C.</p> <p>ORP:</p> <p>Range & Resolution : 0 to ±1999mV & 1mV. Accuracy : 1 mV ± 1 Digit.</p> <p>Conductivity :</p> <p>Range & Resolution : 0 to 200 M Mhos/Cm IN 4 range & 0.1 u Mhos/Cm. Accuracy & Cell Constant : 0.5% of Range ± 1 Digit & 0.4 to 1.5 on Display.</p> <p>TDS :</p> <p>Range & Resolution : 0 to 200ppt in 4 range & 0.1 ppm. Accuracy & Cell Constant : 0.5% of Range ± 1 Digit & 0.4 to 1.5 on Display.</p> <p>DO:</p> <p>Range & Resolution : 0 to 20ppm & 0.1 ppm. Accuracy & Temp. Comp. : 0.2 ppm ± 1 digit & 5 deg.C to 55 deg.C Do Sensor : Gold/Silver Amperometric probe.</p> <p>TEMPERATURE :</p> <p>Range & Resolution : 0 to 100 deg.C & 0.1 deg.C. Accuracy : 0.2% of Range ± 1 Digit.</p>	
<p>DIGITAL SPECTROPHOTOMETER</p> <p>Range : 340 to 960nm. Resolution : 0.1 % T, 0.001 Abs. Output : %T: 0 to 100%, Abs: 0 to 1.999. Detector : Silicon Photodiode. Light Source : 6V - 1Amp. Halogen Lamp. Wavelength Resolution : 1 nm. Repeatability: ± 1nm. Display : 3.5 Digit LED Display. Power : 230V ± 10% 50 Hz AC.</p>	

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MICROPROCESSOR PHOTO COLORIMETER

Standard Glass Filters	: 8 (Wavelength range 400 - 700nm).
Minimum Volume	: 1ml.
Display	: 3.5Digit Bright Red 7 Segment LED Display
% Transmittance	: 0 - 100%.
Absorbance	: 0 - 1.99.
Concentration	: 0 - 999.
Resolution	: 1% T, 0.01 Abs, 1 Conc., 0.01 K factor
Key Board	: 5 keys, Soft touch membrane type.
Auto Zeroing	: Available (for Abs) and 100% for %T.
Light Source	: 6.3V - 0.3 Amp., Tungsten Lamp.
Power	: 230V \pm 10% 50 Hz AC.
Memory	: Facility for storage of 3 standard concentrations.



SOUND LEVEL METER

Features:

- ± 2 dB accuracy with 0.1dB resolution
- A&C weighting
- AC analog output
- Record Max/Min values over time
- Auto power off and Max Hold functions
- Utilizes 0.5"(12.7mm) condenser microphone
- Tripod mountable
- 40 to 130dB measuring range
- Fast/slow response time
- Tripod mountable
- Complete with 4 AAA batteries and microphone windscreen

Applications:

- Monitoring workplace machinery
- Installing audio and alarm systems
- Product noise certification and reduction



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JAR TEST APPARATUS

Designed for Floc formation Test in water treatment Plant, Uniform Stirring of up to 6 samples simultaneously, Variable speed 20-100 RPM, Heavy Duty 1/20HP motor with gear train mounted on a mild steel housing, Supported by four rods on a bench. Stainless steel stirring paddlers with Adjustable height. Locking Collars or stirring rods permit adjustment height of paddle height. Spacing of 6" (150mm) between rod permit use up to 1000ml Beaker.



KJELDHAL DIGESTION UNIT

Mental type (Without glass parts & Clamps) Useful for estimation of nitrogen contents, The housing of mild steel sheet duly powder coated unit of 6 Test as per detail (Given Above with lead fume duct & pair of hangers. Complete in all respect



HEATING MANTLE

Heating Mental - Heating surface made of glass sleeveings reinforced and insulated with glass wool fitted with energy regulator lamp and on/off switch with plug and cord. Work on 220/230V AC.



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BOD INCUBATOR

Refrigerated insulation & Freezing in one unit. Better mineral & Puff Insulated to keep the surface Temp. of body comfortable & avoid Cooling loss. Silent energy saving Kirloskar/ Tecumseh compressor, Designed to circulate uniform air throughout the chamber with better imported coil condenser copper coil, improved Temperature distribution Polish 304 grade S. Steel interior corrosion resistant long life operation having adjustable shelves to make more space for different Height. Kanthal A-1 tubular heater is fitted for better accuracy. Safety Controller are provide with the Digital Temperature Controller Cum Indicator. Full features with Digital Temp. Controller Cum Indicator & Microprocessor Based PID Temperature Controller Cum Indicator with Voltmeter (Optional : Digital Voltmeter) Choose among the model with window front glass door or inner Perspex / Acrylic sheet full view door to observe the Test Process inside the incubator as desired while keep Temp. Uninterrupted. Angle Iron Frame at bottom with castor wheel for easy movement. Fitted with 2 Nos. Fan (One for Cooling & One for Heating inside the chamber)

TECHNICAL PARAMETERS :

Temperature Range :	5°C - 50°C
Temperature Stability :	+/-0.5°C Or Better
Housing Material :	CRC /Mild Steel duly power Coated
Optional :	Double Colour Gate, Top & Grill
Power Consumption:	220/ 230V AC supply +/- 10% 50Hz.
Safety Function :	Safety Controller for Safety of Digital Temp. Controller cum Indicator & Cooling Compressor
Optional :	RSS 232 Communication Interface
Compressor :	Kirloskar/ Tecumseh Model as per size requirement
Refrigerant :	R 134
Duty Cycle:	Continuous
Interior :	illumination provide inside the chamber
Optional :	illumination of 3 Fluorescent tube 2Ft. for 4, 6, 10, 12 Cuft. BOD, 24 Hrs. Cyclic Manual Timer, Voltage Stabilizer, Capacity as per size / Cap. requirement



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C.O.D. DIGESTION APPARATUS

C.O.D. Digestion Apparatus is suitable for COD method for monitoring wastewater influent and effluent, industrial process water, and more. This instrument is used by Pollution Control Labs. Outer cabinet made of mild steel duly coated. Double wall construction with insulation for minimum heat losses increases the efficiency of the system. Aluminum Block with holes (Dimension 40mm Dia. x 80mm Depth) is used to hold 15 nos. COD tubes. Aluminum Block is heated to maintain temperature up to 180 deg.C. Solid state Digital Temperature Controller, appropriate heater & insulation selection assure uniformity in all the samples. Selectable timer up to 120min. with alarm is provided to set the digestion period (Refluxing). After digestion, analyses the sample with either colorimetric or titrimetric method.



HIGH VOLUME SAMPLER

The high volume air sampler collects suspended particulates on large filter paper. The name high volume is appropriate because the sampling flow rate has a high level of 20 to 60 standard cubic feet per minute (SCFM). Because of the high flow rate, large quantities of particles ranging from 0.1 to 1 gram are collected over a typical 24-hour sampling period.

Characteristics: Brushless Blower, Low running cost, Low noise operation, Controlled flow, Light weight and small in size, Drain plug for manometer.

TECHNICAL SPECIFICATIONS

Flo rate: 0.8 to 1.8 m³/min

Particle Size: Down to 1.6 micron depending upon Filter used

Blower: Continuous duty blower with brushless Motor

Recommended filter: GF/A (8" X 10") for common use, EPM 2000 for Special Research or equivalent

Time Record: 0 to 99999.99 hrs. Time totalizer records the running time in hours

Timer: 24 Hr Programmable timer, number of required intervals can be programmed

Power requirement: 220Volts, Single phase AC

