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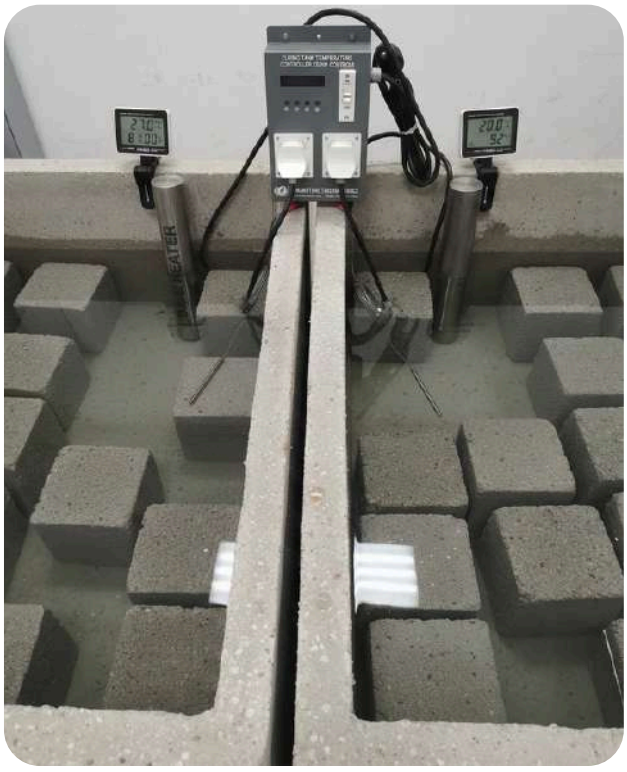
CURING TANK TEMPERATURE CONTROLLER

Controller to Maintain 27+/-2 degree Celsius in curing tank

The Vedantrik Curing Tank Temperature Controller is ready to use plug-and-play system that maintains curing tank water at 27 ± 2°C as per IS 516, using high-accuracy waterproof sensors and a smart master controller. It automatically switches the heater ON below 25°C and OFF above 29°C, ensuring stable curing without manual input.

Designed for reliability, Waterproof, shockproof heater with earth-leakage protection, suitable for both lab and on-site use. The controller is available in a 2-channel model for two curing tanks up to 3000 liters.
The 2-channel unit runs on single-phase supply for labs and smaller tanks, while a three-phase version supports large-capacity curing tanks used at construction sites.



Features:

- **Multi-Channel Control –** Operates 2 or 4 curing tanks independently from a single controller.
- **Automatic IS 516 Compliance –** Maintains 27 ± 2°C with auto heater ON/OFF control.
- **High-Accuracy Sensors –** Waterproof stainless-steel sensors with ±1°C accuracy and long cable.
- **High Power & Safety –** Supports 2000 W per channel with built-in electrical protection.
- **Plug & Play Design –** Works on 230V AC, ideal for lab and on-site curing.

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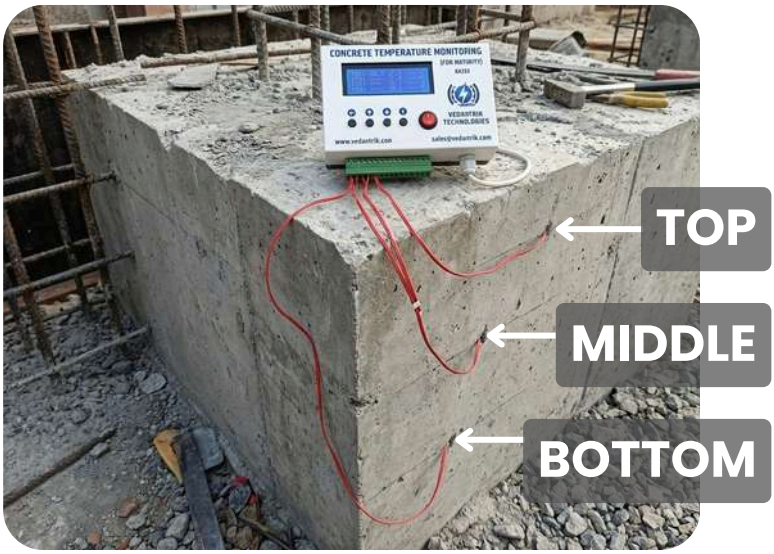
MASS CONCRETE TEMPERATURE MONITORING

Prevents Thermal Stresses & Micro cracks, durability



Wi-Fi Connectivity

16 Channel Mass concrete temperature monitoring system developed by vedantrik is a choice of many construction projects like bullet train and high rise buildings and wherever mass concrete temperature to be monitored to prevent thermal stresses and micro cracks.

other data-loggers give incorrect or higher temperature value if wirelength increses more than 5 meter, where as vedantrik system gives true results even if wirelengths are more than 100 -meters with accuracy of +/- 1 degree celcius.

Key Features:

- Automatically logs data every 30 minutes with adjustable intervals to fit specific project and environmental needs.

- Stores data in internal memory card with built-in Wi-Fi hotspot for wireless connectivity with Laptop, Mobile to download the data in excel sheet.

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RAPID CHLORIDE MIGRATION TEST APPARATUS

Chloride migration Coefficient, Concrete Durability test

Application:

The Vedantrik RCMT apparatus is a device used for determination of chloride ion migration coefficient of Concrete as per NT BUILD 492. The device primarly evaluates the ability of concrete to resist the chloride ion migration inside, preventing it from reaching the rebars. Chloride ions can destroyed the outer oxide coating of the rebars exposing them to outside moisture which can lead to corrosion. This can significantly compromise the structural integrity and durability of the concrete. The apparatus allows evaluation of longterm durability of the concrete mix with few hours in laboratory.

Features:

- **NT Build 492 Compliant RCMT Testing:** Delivers accurate and reliable chloride migration results.
- **Automatic Voltage & Test Time Recommendation:** Calculates required voltage and test duration from initial current.
- **Built-In Wi-Fi with Web-Based Interface:** Wireless access without internet, cables, or software installation.
- **In-Built Data Logging & Auto Report Generation:** Real-time current and temperature recording with instant reports.
- **Safety & Reliability Features:** Power-cut recovery, stable DC output, and over-temperature alerts.

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RAPID CHLORIDE PENETRATION TEST APPARATUS

For Concrete *Durability ,chloride ion penetration*

Features:

- **Test Resume facility if power cut:** Automatically resumes the test after power cuts without data loss.
- **Stable Microcontroller-Based DC Output:** Delivers precise 60V DC output despite AC voltage fluctuations.
- **In-Built Wi-Fi Connectivity:** Wireless connection to PC, laptop, or mobile with no cables or drivers.
- **Web-Based Real-Time Monitoring:** Live current, temperature tracking, and real-time graphs via browser.
- **Automatic Coulomb & Report Generation:** Instant Coulomb calculation with downloadable test reports.

Application:

The RCPT apparatus evaluates concrete durability by measuring its electrical conductance under a constant 60-volt potential as specified in ASTM C1202. This test determines how well concrete resists chloride-ion penetration. Chloride ions can gradually reach the steel reinforcement and damage its protective coating. Once the coating is destroyed, moisture can enter inside leading to corrosion of the steel, which weakens the structure from within. By accelerating chloride movement through the specimen, the RCPT simulates long-term exposure in just a 6 hours, providing a reliable indication of concrete performance over decades.

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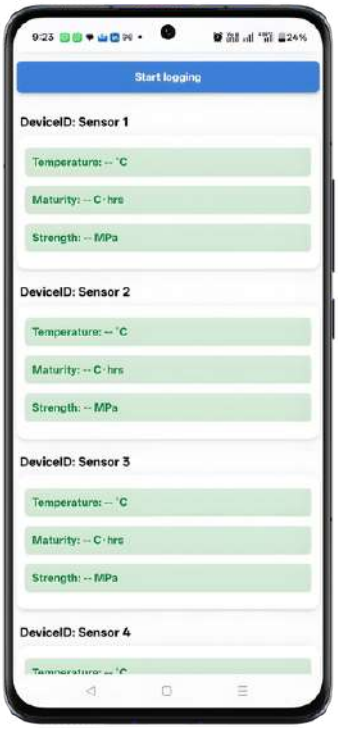
WIRELESS CONCRETE MATURITY METER

Real time Temperature Maturity - Strength • ASTM C1074 Compliant



Application:

Concrete Maturity Meter is a device inserted in the actual concrete structure while casting to monitor real time strength and maturity by sensing the core temperature, maturity is a time and temperature factor which is co-related with compressive strength as per ASTM C1074.

Vedantrik Concrete Maturity Meter comes in Wireless and wired model, whereas wireless model is for one time use and wired model can be reused as only sensor is sacrificial in wired model.

Features:

- **Wireless Embedded Temperature Sensors:** Monitors internal concrete temperature wirelessly with up to 10m range once embedded.
- **ASTM C1074–Based Maturity & Strength Calculation:** Calculates maturity and correlates real-time concrete strength as per ASTM standards.
- **Web-Based Live Monitoring Dashboard:** View temperature, maturity, and strength vs time through Wi-Fi on any browser.
- **Multi-Channel & Configurable Logging:** Supports up to 10 wireless sensors with user-defined logging intervals.
- **Long Battery Life & Data Storage:** Up to 45days and 60days battery backup with sufficient memory, data logging.

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CONCRETE MATURITY METER (Wired)

Real time temperature Maturity - Strength monitoring • ASTM C1074 Compliant

Application:

Concrete Maturity Meter is a device inserted in the actual concrete structure while casting to monitor real time strength and maturity by sensing the core temperature, maturity is a time and temperature factor which is co-related with compressive strength as per ASTM C1074.

Vedantrik Concrete Maturity Meter comes in Wireless and wired model, whereas wireless model is for one time use and wired model can be reused as only sensor is sacrificial in wired model.

Features:

- **Wired Embedded Temperature Sensors:** Accurately measures internal concrete temperature using durable wired sensors embedded during casting.
- **ASTM C1074–Based Maturity & Strength Calculation:** Computes concrete maturity and correlates strength development in real time as per ASTM C1074.
- **Web-Based Monitoring Dashboard:** Live viewing of temperature, maturity, and strength data through a Wi-Fi–enabled web interface.
- **Multi-Channel Monitoring:** Supports up to 4 wired sensor channels for monitoring multiple locations simultaneously.
- **Configurable Logging & Reliable Data Storage:** User-defined logging intervals with secure data storage for continuous monitoring and reporting.

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Rebound Hammer & Anvil

On-site Testing • Compressive strength • Non-Destructive

Used for non-destructive testing to assess concrete surface hardness and indicative compressive strength. Helps identify weak zones, check uniformity, and evaluate in-situ concrete quality as per ASTM C805 / IS 13311.

Anvil Specifications:

- Material: Hardened alloy steel
- Hardness Index: HRC 66 ± 2
- Standard Rebound Value: 80 ± 2
- Compliance: ASTM C805 / IS 516
- Application: For Rebound hammer calibration and accuracy verification

Rebound Hammer Features:

- Non-destructive method for estimating concrete strength
- Clear analog scale (0–100) for quick rebound reading
- Standard anvil calibration ensures accurate results
- Android app for automatic strength calculation and data export
- Lightweight, portable design for easy site use

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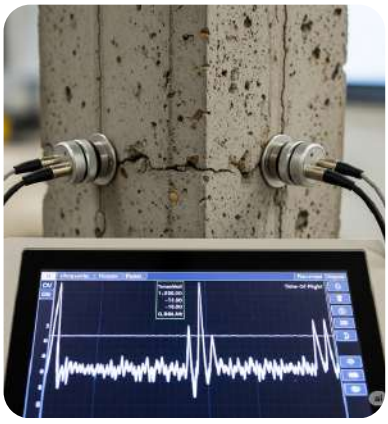
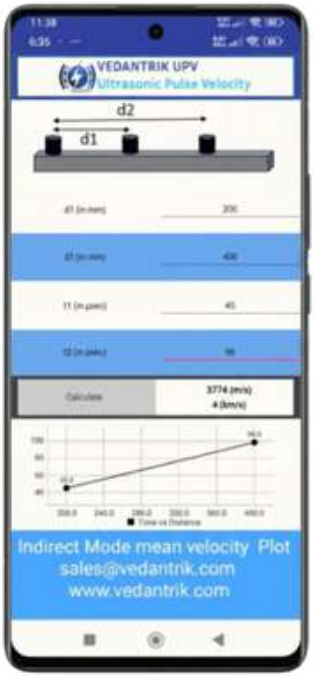
ULTRASONIC PULSE VELOCITY METER

To Check Compactness • Internal Voids • Honey Combing

UPV is a non-destructive test used to evaluate the quality and uniformity of concrete. It helps identify internal defects like cracks and voids and is commonly used in structural audits and quality control as per IS standards.





Features:

- Non-destructive testing for in-situ concrete quality assessment
- Burst mode for stable, accurate, and repeatable readings
- On-site Graph plot for Indirect mode as per IS516
- Internal memory to store multiple test readings
- Android app/PC interface for data analysis and reporting

HALF-CELL POTENTIAL METER

Determines Possibility of rebar corrosion

Application:

Corrosion occurs when CO_2 or chlorides penetrate concrete and reach the steel reinforcement, affecting durability and safety. The half-cell potential method reliably assesses corrosion risk in reinforced concrete, supporting timely repair and maintenance decisions.

Specifications:

- **Accurate Measurement:** mV readings compliant with NABL requirements
- NABL Calibration Certificate**:** For accuracy
- **Backlit Display:** Clear visibility in low-light conditions
- **IS 516 & ASTM Compliant**: Half cell electrode
- **Temperature Measurement:** of concrete for half cell potential values