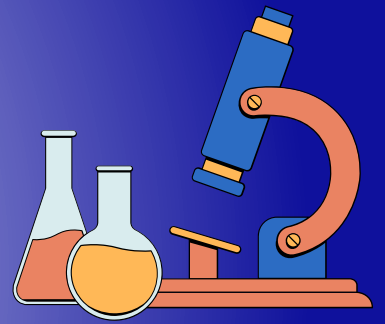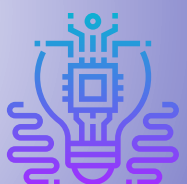# GK TECH SOLUTIONS

GK PRODUCTS CATALOGUE

POWERING SCIENCE AND TECHNOLOGY TOGETHER

pH Meter

- **Measurement Range:** 0.00 to 14.00 pH
- **Accuracy:** ±0.01 pH | **Resolution:** 0.01 pH
- **Display:** Large Digital LCD with backlight
- **Calibration:** 2-point ,3-point or 5 Point (Auto/Manual)
- **Temperature Compensation:** Automatic (ATC)
- **Range:** 0°C – 100°C
- **Electrode Type:** Replaceable glass electrode
- **Power Supply:** Battery or Adapter (model dependent)
- **Available Models:** Portable / Benchtop

Micropipette

- **Volume Range:** 0.1 µL to 1000 µL (model-dependent)
- **Types:** Variable Volume & Fixed Volume
- **Accuracy:** High precision with ISO 8655 compliance
- **Display:** Digital volume display window (on variable models)
- **Construction:** Lightweight ergonomic design with soft plunger
- **Tip Compatibility:** Universal fit with standard micropipette tips
- **Calibration:** Factory calibrated with recalibration tool included
- **Sterility:** Autoclavable lower parts (for selected models)

Hydrothermal Autoclave Reactor

- **Material:** High-quality 316 stainless steel outer shell
- **Liner Material:** Teflon (PTFE) or PPL-lined chamber
- **Capacity:** 10 ml to 1000 ml (custom sizes available)
- **Temperature Range:** Up to 220°C – 280°C (depending on liner)
- **Pressure Range:** Up to 3 MPa (30 bar)
- **Seal Type:** Threaded cap with safety pressure sealing
- **Usage Type:** Batch reactor – non-stirred
- **Application:** Suitable for high-temperature, high-pressure synthesis

Note: Also on GeM – Direct purchase link available on request.

Magnetic Stirrer

- **Speed Range: 100 to 2000 RPM (adjustable)**
- **Stirring Capacity: Up to 5 liters (model-dependent)**
- **Top Plate Material: Ceramic-coated / Stainless steel / Aluminum**
- **Power Supply: 220V AC / 50Hz or DC adapter (portable models)**
- **Controls: Analog knob or digital display (model-based)**
- **Optional: With or without heating function**
- **Magnetic Stir Bar: PTFE-coated included**
- **Body Material: Durable, chemical-resistant outer shell**

TDS Meter

- **Measurement Range: 0 to 9990 ppm (mg/L)**
- **Accuracy: ±2% F.S. | Resolution: 1 ppm (or 0.1 ppm in advanced models)**
- **Display: Digital LCD with auto hold and backlight (in some models)**
- **Temperature Compensation: Automatic (ATC) from 0°C to 80°C**
- **Calibration: Manual or auto single-point calibration**
- **Power Supply: Button cell battery or rechargeable (based on model)**
- **Form Factor: Pen-type (pocket), handheld, and benchtop models available**

Conductivity Meter

- **Measurement Range: 0 to 200 mS/cm (model-dependent)**
- **Accuracy: ±1% F.S. | Resolution: 0.01/0.1 µS/cm**
- **Display: Large Digital LCD with backlight**
- **Temperature Compensation: Automatic (ATC) from 0°C to 60°C**
- **Cell Constant (K): 1.0 (standard), adjustable**
- **Calibration: 1 or upto 3 points manual/auto**
- **Power Supply: Battery operated or Adapter (based on model)**
- **Available Models: Portable / Benchtop**

Note: Also on GeM – Direct purchase link available on request.

Digital Photocolorimeter

- Wavelength Range: 400–700 nm (model-dependent)
- Display: Digital LCD / LED display for absorbance & transmittance
- Optical System: LED light source with optical filters
- Measurement Range: 0–100% T, 0–1.99 Abs
- Accuracy: ±0.01 Abs
- Sample Holder: Test tube or cuvette compatible
- Power Supply: 230 V AC or rechargeable battery option
- Calibration: Automatic or manual zero adjustment

Digital Thermometer

- Temperature Range: −50°C to +300°C (model-dependent)
- Accuracy: ±1°C | Resolution: 0.1°C
- Display: Clear digital LCD screen
- Probe Type: Stainless steel sensor probe (fixed or detachable)
- Response Time: <5 seconds * Power Supply: Battery operated (AAA or button cell)
- Mounting Options: Handheld, wall-mount, or table-top options available
- Usage Environment: Indoor & outdoor compatible

Laboratory Hot Plate

- Surface Material: Cast iron / Ceramic-coated / Stainless steel
- Temperature Range: Ambient to 300–400°C (model-dependent)
- Top Plate Size: Starts from 6" × 6" or larger
- Temperature Control: Analog knob or digital PID
- Heating Element: Embedded resistance coil for uniform heating
- Power Supply: 230V AC / 50Hz
- Body Construction: Powder-coated mild steel or aluminum
- Shape: Rectangular or square (varies by model)

Note: Also on GeM – Direct purchase link available on request.

Vortex Mixer

- **Speed Range:** 0–3000 RPM (variable or fixed speed models)
- **Mixing Mode:** Orbital motion with small circular vibration
- **Platform Type:** Cup head for single tube; optional flat head for multiple tubes
- **Capacity:** 0.5–50 ml tubes (microcentrifuge tubes, test tubes, vials)
- **Motor Type:** Brushless or high-quality permanent magnet motor
- **Operation Modes:** Touch or continuous mode
- **Power Supply:** 230V AC

Bottle Top Dispenser

- **Volume Range:** 0.25 ml to 100 ml (adjustable)
- **Accuracy:** ±0.5% to ±1.0% depending on model
- **Material:** PTFE / Borosilicate / PP (chemical-resistant)
- **Compatibility:** Fits standard reagent bottles (GL 32, GL 45 adaptors)
- **Dispensing Mechanism:** Piston-driven, springless valve
- **Autoclavable:** Fully or partially autoclavable (121°C, 15 psi)
- **Shape:** Vertical mount on reagent bottle

Digital Hygrometer

- **Humidity Range:** 10% RH to 99% RH
- **Temperature Range:** –10°C to +60°C
- **Accuracy:** ±5% RH (humidity), ±1°C (temperature)
- **Display:** Large LCD showing temperature & humidity simultaneously
- **Power Supply:** Battery operated (AAA or button cell)
- **Sensor Type:** Built-in or external probe (depending on model)
- **Mounting:** Table-top stand, wall-mount, or magnetic back
- **Additional Features:** Clock, alarm, min/max memory (optional)

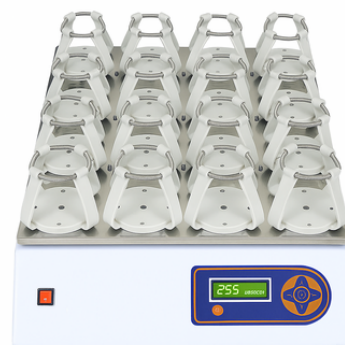Note: Also on GeM – Direct purchase link available on request.

Digital Turbidity Meter

- **Measurement Range: 0–1000 NTU (Nephelometric Turbidity Units)**
- **Accuracy: ±2% of full scale**
- **Resolution: 0.01 NTU (low range)**
- **Light Source: LED or tungsten lamp with 90° scattered light detection**
- **Display: Digital LCD display**
- **Sample Size: Standard cuvette / test tube**
- **Calibration: 2-point or multi-point calibration**
- **Power Supply: 230V AC or rechargeable battery option**

Rotary Shaker

- **Platform Size: 300 x 300 mm / 400 x 400 mm (varies by model)**
- **Speed Range: 20 to 300 RPM (adjustable)**
- **Orbit Diameter: Typically 20–25 mm**
- **Timer: 0–60 minutes or continuous run**
- **Load Capacity: Up to 5 kg or more (based on model)**
- **Tray Type: Detachable platform with clamps or adjustable bars**
- **Drive Mechanism: Belt-driven or gear motor-based**
- **Power Supply: 230V AC / 50Hz**

Ultrasonic Bath Sonicator

- **Frequency: 33–40 kHz**
- **Tank Capacity: 1.5 L to 20 L (model-dependent)**
- **Ultrasonic Power: 50W to 500W**
- **Heating Range: Ambient to 80°C (for heated models)**
- **Timer: 0–99 minutes (digital or analog)**
- **Material: Stainless steel tank (SS 304 grade)**
- **Controls: Digital touch or analog knobs**
- **Drain Valve: Included in larger models**

Note: Also on GeM – Direct purchase link available on request.

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Heating Mantle

- Capacity Range: 50 ml to 5000 ml (various models)
- Heating Element: Nichrome wire embedded in fiberglass net
- Temperature Range: Up to 400°C (model-dependent)
- Temperature Control: Analog knob or digital PID controller
- Outer Body: Powder-coated mild steel or aluminum housing
- Inner Lining: Heat-resistant woven fiberglass
- Power Supply: 230V AC / 50Hz
- Protection: Fuse and thermal insulation for safety

Melting Point Apparatus

- Temperature Range: Ambient to 300°C (model-dependent)
- Accuracy: ±0.5°C | Resolution: 0.1°C
- Display: Digital or analog temperature readout
- Heating Rate: Adjustable (1°C/min to 10°C/min)
- Sample Capacity: 2–3 capillary tubes at a time
- Observation: Built-in magnifying lens or digital camera display
- Power Supply: 230V AC

Digital Signature Certificates

- Certificate Types: Class 3 | DGFT | Document Signer (model-dependent)
- Validity Period: 1 year / 2 years / 3 years (as per requirement)
- Encryption Strength: 2048-bit RSA key pair (industry standard)
- Authentication Level: High-assurance, issued by licensed Certifying Authority (CA)
- Storage Medium: USB Crypto Token (FIPS-compliant)
- Usage Scope: e-Tendering, e-Procurement, MCA filings, GST, Income Tax, EPFO, and other government portals
- Issuance Time: Instant to 2 working days (after KYC & verification)
- Compliance: As per IT Act 2000 & CCA guidelines
- Renewal Process: Online application with existing token and updated KYC

Note: Also on GeM – Direct purchase link available on request.
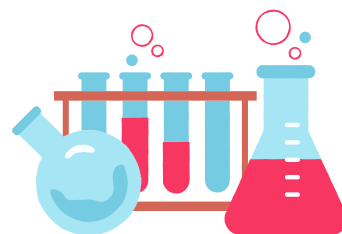
Computer, Laptop & Accessories

- **Processor: Latest generation Intel® / AMD Ryzen™ (model-dependent) — suitable for running lab analysis and control software**
- **RAM: 4GB–32GB DDR4/DDR5 (expandable) — supports multitasking with multiple laboratory data applications**
- **Storage: SSD (256GB–2TB) or HDD (500GB–2TB) — for secure storage of research data and industrial records**
- **Display: 14"–17" Full HD / UHD with anti-glare coating — clear visibility for long lab sessions and detailed graphics**
- **Graphics: Integrated or dedicated GPU options (NVIDIA® / AMD) — ideal for image analysis, CAD, and simulation work**
- **Connectivity: Wi-Fi 5/6, Bluetooth, USB 3.0/3.2, HDMI, Ethernet — enables direct connection with lab instruments and industrial monitoring devices**
- **Operating System: Windows / Linux / macOS — compatible with a wide range of lab and industrial control software**
- **Accessories: Scientific keyboard/mouse, external data storage, cooling pads, docking stations, and UPS for uninterrupted lab operations**
- **Power Supply: Built-in rechargeable battery (laptops) or AC power adapter (desktops) — stable performance for continuous lab and field use**
- **Optimized for laboratory data logging, instrument interfacing, and industrial automation software**
- **Systems can be custom-configured — hardware, software, and connectivity options — to match specific laboratory instruments, industrial processes, and data analysis requirements**
- **Multiple accessory options for enhanced productivity in technical workspaces**
- **High-speed SSD storage for quick processing of analytical and experimental data**
- **Compatible with specialized lab and industrial applications**
- **Warranty and after-sales service support for institutional and industrial clients**
- **Also suitable for educational, office, and personal computing needs**

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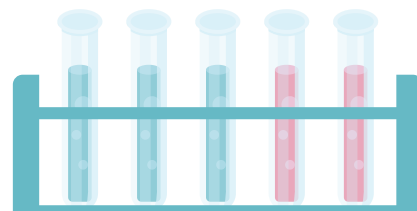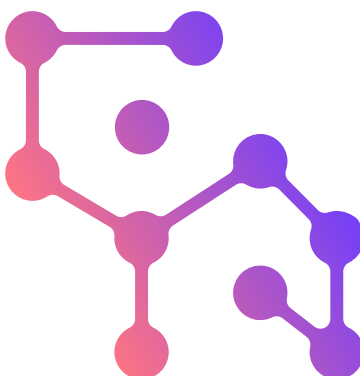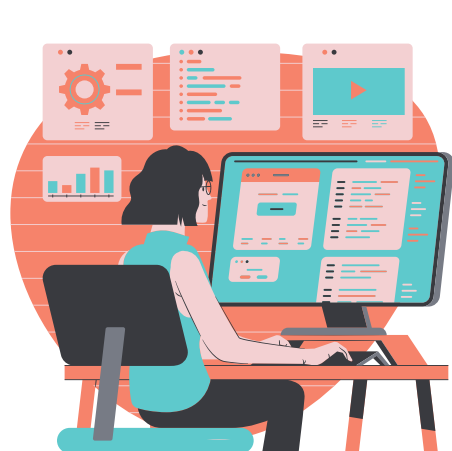
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