



Tejus Enterprises

LABORATORY | SCIENTIFIC |
INDUSTRIAL & MEDICAL EQUIPMENTS

*Your Trusted Partner for Laboratory
& Scientific Solutions*



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tejusenterprises.in



1. Why Choose Us?

- **Quality Assurance** : All equipment is tested and certified.
- **Competitive Pricing** : Best prices without compromising on quality.
- **After-Sales Support** : Dedicated team for installation and troubleshooting.
- **On-Time Delivery** : Trusted logistics for timely supply.

2. Who We Are: Leading supplier of laboratory and scientific equipment with a focus on quality and reliability.

Vision:

"To be the leading provider of innovative and reliable laboratory and scientific solutions, empowering research and development globally while fostering sustainability and excellence in every aspect of our service."

Mission:

"At Tejus Enterprises, we are dedicated to delivering high-quality laboratory and scientific equipment, backed by exceptional service and support. We strive to exceed our clients' expectations by providing cutting-edge solutions, fostering long-term partnerships, and contributing to the advancement of science and technology."



Digital Microscope with Integrated Monitor and Camera

Description:

A **digital microscope with an integrated monitor and camera** is an advanced imaging system designed for high-resolution observation, analysis, and documentation. It eliminates the need for external screens or eyepieces by providing a built-in **LCD monitor** and **high-definition camera**, making it ideal for research, education, and industrial applications.

Specifications:

- ✓ **Optical Magnification:** 10x – 2000x (depending on the model)
 - ✓ **Digital Zoom:** Up to 4x for enhanced visualization
 - ✓ **Monitor Size:** 7-inch to 12-inch **LCD/LED display**
 - ✓ **Camera Resolution:** 1080p Full HD / 4K Ultra HD imaging
 - ✓ **Illumination:** Adjustable **LED lighting** for bright, clear imaging
 - ✓ **Focus Type:** Auto-focus & manual fine adjustment
 - ✓ **Connectivity:** USB, HDMI, SD Card slot for easy image and video saving
 - ✓ **Software Compatibility:** Compatible with Windows, macOS for real-time viewing & image processing
 - ✓ **Power Source:** Rechargeable battery or AC adapter
 - ✓ **Frame Material:** Durable **metal/plastic body** for stability
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Benefits of a Digital Microscope with Integrated Monitor & Camera

- ✓ **Ergonomic & Comfortable** –
No need to strain your eyes by looking through eyepieces for long hours.
- ✓ **Instant Image & Video Capture** –
Built-in camera allows easy saving and sharing of observations.
- ✓ **Better Collaboration** –
Large display screen enables multiple people to view images simultaneously.
- ✓ **Enhanced Documentation** –
Captures high-resolution images for reports, analysis, and presentations.
- ✓ **Efficient Remote Sharing** –
USB/HDMI output enables live streaming or projection for teaching and discussions.
- ✓ **High Precision & Accuracy** –
Digital zoom and high-definition imaging provide better visualization.
- ✓ **Easy to Use & Portable** –
Ideal for both laboratory and field applications.



Scientific Equipments



Monocular Microscope



Binocular Microscope



Compound Microscope



Trinocular Microscope



Dissecting Microscope



Penta Head Microscopes



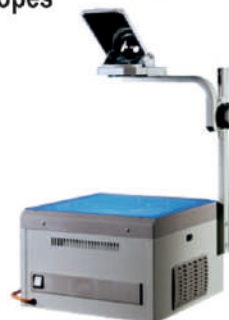
Projection Microscopes



Rotary Evaporator



Rheostat



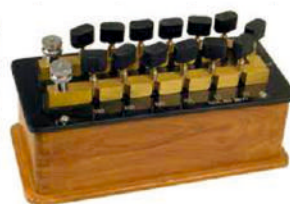
Over Head Projector



Battery Eliminator



PN Junction Diode Apparatus



Resistance Box



Spectrometer



Tabletop Centrifuge



Soxhlet Extraction System



Heating Mantle

Standard Analytical Weighing Balance – Description & Specifications

Description:

A **Standard Analytical Weighing Balance** is a precision instrument designed for measuring small masses with high accuracy. It is commonly used in laboratories, research institutions, and pharmaceutical industries to ensure precise measurements for chemical formulations, quality control, and scientific research.

Specifications:

- **Weighing Capacity:** 100g – 300g
- **Readability:** 0.0001g (0.1 mg)
- **Pan Size:** Ø 80-90 mm stainless steel
- **Calibration:** Internal and external calibration
- **Display:** High-resolution digital LCD with backlight
- **Power Supply:** AC adapter or rechargeable battery
- **Response Time:** <3 seconds
- **Tare Function:** Yes
- **Units of Measurement:** g, mg, oz, ct, etc.
- **Connectivity:** USB or RS-232 for data transfer
- **Protection:** Overload and shock-resistant design



Key Features:

- **High Precision & Accuracy** – Ensures reliable and repeatable measurements.
- **Fast Stabilization Time** – Quick readings improve efficiency in laboratory processes.
- **Internal Calibration** – Automatic calibration for maintaining accuracy.
- **User-Friendly Interface** – Digital display with touch buttons for easy operation.
- **Durable & Compact Design** – Made from robust materials for long-term use.
- **Multiple Weighing Units** – Supports various measurement modes for different applications.

Benefits of Microscopes

Microscopes are essential tools in laboratories, research, and educational institutions. Here are some key benefits:

1. **Enhanced Visualization** – Allows observation of microscopic structures such as cells, bacteria, and fine particles.
2. **Improved Research Accuracy** – Enables detailed analysis in biology, chemistry, and material sciences.
3. **Versatility** – Available in optical, digital, and electron microscope varieties to suit different applications.
4. **Diagnostic Applications** – Essential for medical and clinical diagnostics, including pathology and microbiology.
5. **Supports Innovation** – Used in nanotechnology, forensic science, and pharmaceutical research.
6. **Real-Time Imaging** – Digital microscopes allow real-time display and image capture for documentation.
7. **Educational Value** – Helps students and researchers understand the micro-world in detail.
8. **Advanced Magnification** – Some models offer up to 1000x magnification for precise observations.

ANALYTICAL INSTRUMENTS



Digital Colony Counter



Photo Colorimeter



Weighing Scale



UV Spectrometer



Digital Refractometer



Moisture Analyzer



pH Meter



Digital Conductivity Meter



Microprocessor Flame Photometer



Microprocessor TDS Meter



Digital Tablet Hardness Tester

STIRRER & MIXER



Magnetic Stirrer with Hot Plate



Vortex Mixer



Waterbath Shaker



Homogenizer



Wrist-Action-Shaker



Melting Point Apparatus



Commercial Mixer



Rotary Shaker

Fermentor: Description, Specifications, Benefits & Working Principle

Description:

A **fermentor** is a specialized bioreactor designed for the growth of microorganisms under controlled conditions to produce bioproducts such as enzymes, antibiotics, biofuels, and vaccines. It provides an optimal environment for microbial growth by regulating temperature, pH, oxygen levels, and nutrient supply.

Specifications of Fermentor:

1. General Specifications:

- **Capacity:** 1L to 10,000L (varies based on application)
- **Material:** Stainless Steel (SS 316/SS 304), Glass, or Plastic
- **Sterilization:** In-situ or Autoclavable
- **Temperature Control:** 10°C to 80°C (with PID controller)
- **Agitation Speed:** 50–1000 RPM (adjustable)
- **Aeration System:** Air sparger or oxygen supply system
- **pH Range:** 2–12 (pH probes available)
- **Dissolved Oxygen (DO) Control:** DO probes for monitoring and control
- **Control System:** Digital or PLC-based automation with data logging
- **Ports & Accessories:** Sample ports, inoculation ports, gas inlets, cooling coils

Benefits of Fermentor:

- ✓ **Enhanced Production Efficiency** – Provides optimal conditions for microbial growth, leading to higher yields.
- ✓ **Scalability** – Available in different capacities, making it suitable for research and large-scale industrial production.
- ✓ **Precise Control** – Automated monitoring of temperature, pH, and oxygen ensures stable and reproducible conditions.
- ✓ **Sterility Maintenance** – Designed for aseptic operations
- ✓ **Versatility** – Suitable for various biotechnological applications, food, and biofuel production.

Working Principle of Fermentor:

A fermentor operates on the principle of microbial fermentation, where microorganisms convert substrates into desired products under controlled conditions.

- 1. Inoculation:** The selected microorganism (e.g., bacteria, yeast, or fungi) is introduced into the fermentor with a sterile nutrient medium.
- 2. Aeration & Agitation:** Oxygen is supplied (in aerobic fermentation), and an agitator ensures proper mixing.
- 3. Nutrient Supply:** Essential nutrients such as carbon and nitrogen sources are maintained for microbial growth.
- 4. pH & Temperature Control:** Sensors regulate environmental factors to optimize fermentation efficiency.
- 5. Product Formation:** The microorganisms metabolize the substrate, producing the target product (e.g., enzymes, alcohol).
- 6. Harvesting & Purification:** The final product is extracted, separated, and purified for industrial use.



INDUSTRIAL EQUIPMENTS



Environmental Chambers



Ice Flaker



Dehumidifier



Industrial Water Chiller Units



Electric Steam Generator



Seed Germinator



Roll Mill



Vacuum Pump



Laminar Air Flow Big



Laboratory Muffle Furnace



Horizontal Autoclave



Waterbath



Circulating Waterbath



Incubator



Ultrasonic Bath



Deep Freezer - 80°C

Turnkey Project in Food Processing Machines – Tejus Enterprises

Description:

Tejus Enterprises specializes in **turnkey solutions for food processing machines**, offering end-to-end project execution from design to installation. Our turnkey projects are tailored to meet industry standards, ensuring seamless integration of **food processing equipment** for enhanced efficiency and productivity. Whether it's dairy, bakery, beverage, or snack processing, we deliver **customized solutions** that include automation, quality control, and optimized workflow.

Specifications:

- ✓ **Project Scope:** Design, manufacturing, installation, and commissioning of food processing plants.
 - ✓ **Material Used:** Stainless steel (SS 304/316), food-grade components, corrosion-resistant materials.
 - ✓ **Automation:** PLC/SCADA-based control systems for precision and efficiency.
 - ✓ **Processing Capacity:** Scalable from small to large-scale production.
 - ✓ **Compliance Standards:** FSSAI, GMP, HACCP, ISO-certified food processing solutions.
 - ✓ **Customization:** Tailored designs for specific food categories, including dairy, snacks, bakery, and beverages.
 - ✓ **Energy Efficiency:** Optimized power consumption and sustainable processing methods.
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Uses of Turnkey Food Processing Projects:

- ◆ **Dairy Processing Plants:**
Milk pasteurization, yogurt, cheese, and butter production.
- ◆ **Bakery & Confectionery:**
Automated production lines for biscuits, bread, and chocolates.
- ◆ **Beverage Industry:**
Juice, soft drink, and packaged drinking water processing.
- ◆ **Snack Production:**
Chips, namkeen, and extruded snack manufacturing.
- ◆ **Frozen & Ready-to-Eat Foods:**
Quick freezing and packaging solutions.
- ◆ **Spice & Grain Processing:**
Grinding, mixing, and packaging solutions.



Nursing Pocket Articles



Community Bag



List of Items

Disposable Syringe	SS Scissor
Dressing Pad	Gauze Swab
Artery Forceps	Nail Brush
Napkin	Stethoscope
Spirit Lamp	Testube glass
Testube Stand	SS Bowl Small
Kidney Tray(150mm)	Measuring Cup
Disposable Apron	Umbilical Lamp
Fetoscope	Testube Holder
Kidney Tray(200mm)	Disposable Scale
Drape Cloth	Dropper
Soap with Dish	Empty Glass Vial
Match Box	Testube Cleaning Brush
Gauze Bandage	Face Mask
Examination Gloves	Digital Thermometer
Tablet Dispenser Box	Syringe
Cotton Balls	Forceps
Spirit Cotton Pack	Plastic Bottle

Medical Equipments



BP Apparatus



First Aid Kit



Pulse Oximeter



SS Dressing Tray



Glucometer



Wheel Chair



Surgical Table



Nebulizer



Fumigator



Suction Machine



Surgical Gown



Sterilizer



Nursing Aprons



Patient Trauly



Dialyzer Machine

SERVICE SATISFACTION LETTER



TO WHOM IT MAY CONCERN

This is to certify that M/s Tejus Enterprises having principal place of business at Malleshwaram, Bangalore has successfully serviced Laboratory Equipment's, the equipment's is running perfectly.

We are very satisfied with the services provided by M/s Tejus Enterprises and its experienced person Mr. Rajendra H G for doing this job.

HOD/Biotechnology

HOD-Biotechnology
BMS College of Engineering
Bangalore-560 019



Date: 15/04/2022

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For CHRIST (Deemed to be University)

Authorized Signature



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Ref No: DSU/SBAS/2022-2023

Date: 16.12.2022

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Dr. Suneel S More
Professor & Dean
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Our Happy Customer



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