



### Technical Specifications

### Application / Test Facility

Comprehensive laboratory-scale system for **steam turbine performance analysis** and efficiency testing under controlled conditions.

### Product Features

| Parameter                            | Specification  |
|--------------------------------------|--|
| <b>Type</b>                          | Laboratory-scale, educational and research-grade test rig  |
| <b>Overall Dimensions (L×W×H)</b>    | Approx. <b>1200 x 600 x 700 mm</b>   |
| <b>Construction</b>                  | Stainless steel turbine assembly mounted on a powder-coated mild steel frame with GI piping and insulation   |
| <b>Turbine Type</b>                  | Single-stage impulse turbine   |
| <b>Rated Power Output</b>            | Minimum <b>180 W</b>   |
| <b>Seals and Bearings</b>            | Minimum <b>1 carbon ring seal</b> with <b>dual-bearing</b> support   |
| <b>Steam Generation System</b>       | Adjustable pressure up to <b>6 bar</b> , temperature up to <b>180°C</b>  |
| <b>Boiler Capacity</b>               | Minimum <b>5 kg/hr</b> , water tube type   |
| <b>Boiler Type</b>                   | <b>LPG-fired</b> and/or <b>Electric boiler</b> (with safety and monitoring accessories)  |
| <b>Boiler Accessories</b>            | Steam separator, safety valve, level gauge, pressure gauge, air-lock release mechanism   |
| <b>Data Acquisition System (DAQ)</b> | Integrated <b>8-inch touchscreen HMI</b> with <b>PLC-based control</b> , USB interface for PC communication, and software-based data analytics   |
| <b>Measurement Instrumentation</b>   | <ul style="list-style-type: none"> <li>- Speed sensor for turbine</li> <li>- Pressure gauges (at key points)</li> <li>- Temperature sensors (inlet &amp; outlet)</li> <li>- Ammeter &amp; Voltmeter</li> </ul> |

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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**Parameter**

**Specification**

|                           |  |
|---------------------------|--|
| <b>Enclosure Material</b> | - Steam mass flow rate sensor<br>Heavy-duty stainless steel with powder-coated frame for durability and corrosion resistance |
|---------------------------|--|

**Accessories and Spares**

- Pressure measurement device
- One complete set of temperature sensors

Notes:-This is an AI generated image..The actual product image may vary after manufacturing as we will customize this as per given specifications we dont have actual image for the equipment.

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