



## Description

The Wind Power Training Equipment is designed for technical education and hands-on training in renewable and green energy technologies. The system enables students to study the construction, operation, and control of wind power generation systems under controlled laboratory conditions.

## Technical Parameters

### Electrical Supply

- **Input Power:** 220 V  $\pm$ 10%, 50 Hz / 60 Hz

### Dimensions

- **Maximum Equipment Footprint:** Not exceeding **3 m<sup>2</sup>**
- **Maximum Height:** **2.5 m**

### Operating Environment

- **Ambient Temperature:** -10 °C to 40 °C (up to 50 °C with coated paint protection)
- **Relative Humidity:**  $\leq$  85% at 25 °C

## System Composition & Functions

The wind power training system comprises the following major components and functional units:

- Wind turbine blades and wheel hub
- Generator and engine room (nacelle)
- Stern rudder and side-wind yaw control mechanism

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



Export Sales: +91-9829132777  
India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,  
Sitapura Extension, Jaipur-302022, India.



info@tesca.in  
www.tescaglobal.com

- DC motor and single-phase AC motor with capacitor
- Tower structure with foundation
- Wind speed measurement system including **velocimeter and mounting bracket**
- Axial flow fan with support structure and protective box cover
- Wind field motion box for airflow simulation
- Guardrails and mechanical transmission components
- Connecting rods, rollers, and universal wheels
- Electrical and control components including **micro switches** and **proximity switches**

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