

Southern Wind Farms Ltd

ONE STOP

SHOP SOLUTION FOR

WIND TURBINE

GWL
225 KW



www.swl.co.in

PROFILE

Southern Wind Farms Limited (SWL) is a company incorporated in 2005, with a goal of manufacturing, marketing, installing and commissioning (complete EPC/Turnkey project) 225 kW, 750 kW and other MW class Wind Turbine Generators.

Our key competence is installation of wind turbines on turnkey basis for individuals and to large corporations. The company has installed over 3500 Wind Electric Generators, Powering over 500 MW at present, in the State's of Tamil Nadu, Karnataka, Andhra Pradesh, Rajasthan, Maharashtra, Madhya Pradesh and Gujarat.

SWL has propelled this evolution of a professionally managed team of highly qualified technical personnel, providing high quality, competitive price with low maintenance cost, has expedited the demand of repeat orders from satisfied clients.

The company manufactures a full range of 225 kW Wind Energy equipment:

- Robust, simple design
- 98% Indigenization
- Type certified by NIWE, India
- Economical Operation and Maintenance
- Proven and leader in this segment of capacity

Let the Wind pay your bill
Go Wind !!

TURNKEY SERVICES

Southern Wind Farms Limited (SWL) has the capacity to deliver at every phase starting from Feasibility study to Erection, Commissioning and up to long term Operation and Maintenance.

01

WRA

02

Power
Evacuation

03

Land
Sourcing

04

Regulatory
Approvals

05

Logistics

06

Civil
Foundation

07

Electrical Yard
& OH Line

08

Erection

09

Commissioning

10

Operation &
Maintenance

GWL 225 kW

Technical Specifications

Type – GWL 225 kW

Overall Data

Cut in Wind speed : Approx. 4 m/s
Cut out Wind Speed : Approx. 25 m/s
Rated Wind Speed : 15 m/s
Hub Height : 48.7 m
Power Regulation : Stall

Gear Box

Type : Helical
Gear Ratio : 1:40

Generator

Type : Asynchronous
Revolution : 1500/1000 RPM
Frequency : 50 Hz

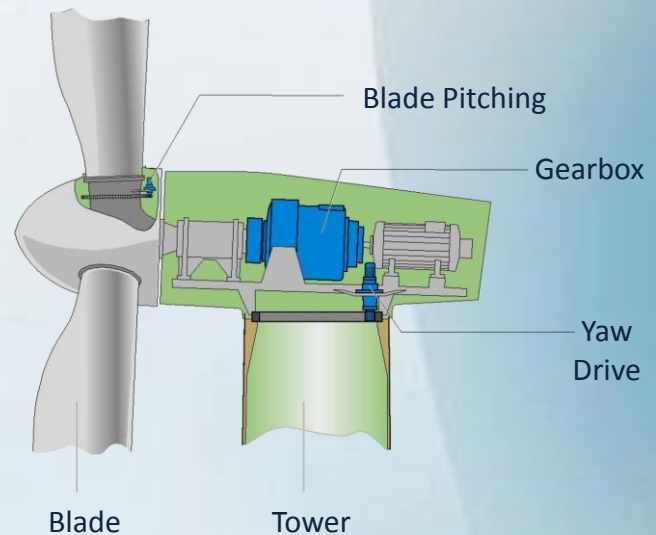
Tower

Type : Tubular
Material : Steel Plate
Sections : 7

Rotor

No. of Blades : 3
Diameter : 29.8 m
Swept Area : 698 sq. m
Pitch : Fixed
Power Regulation: Stall

KEY DESIGN FEATURES



SAFETY SYSTEMS

- Hydraulic Activated Blade Tip brakes
- Electro-mechanical “fail-safe” disc brake
- Over speed control on rotor that activates disc brake
- Thermo detector in generator
- Vibration Control Switch
- Thermo relay of yaw-gear motor
- 90° yaw of Nacelle, in case of malfunction
- Automatic stop for worn-out brake pads
- Automatic stop at wind speeds above 25 m/s
- Effective Power factor control

Certifications



NATIONAL INSTITUTE OF WIND ENERGY

(An autonomous institution under the Ministry of New and Renewable Energy (MNRE), Government of India)

Type Certificate

Certificate Number: TC-1543-02 / Rev.00
This certificate is issued to: M/s. Southern Wind Farms Limited
No.14, First floor, Brindhavan Street Extension,
West Mambalam, Chennai-600 033, India.

for the Wind Turbine Model: GWL 225

This certificate attests compliance with IEC 61400-1 Edition 3.1.1, dated: 2014-04, Class S, concerning the Design, Manufacturing and Type Test. It is based on the following reference documents:


Reference Document	Document Number	Dated	Issued by
Design Evaluation Conformity Statement	DE-CS-1523-01 / Rev.00	01.07.2021	NIWE
Type Test Conformity Statement	TT-CS-1523-02 / Rev.00	01.07.2021	NIWE
Manufacturing Conformity Statement	ME-CS-1523-03 / Rev.00	01.07.2021	NIWE
Final Evaluation Report	TC-FER-1523 / Rev.00	23.07.2021	NIWE


The conformity evaluation was carried out according to IS/IEC 61400-22: 2010 "Wind Turbines - Part 22: Conformity Testing and Certification", Published in June 2018 by Bureau of Indian Standards (BIS), New Delhi, India. The Technical specifications of the wind turbine are given in the attached Annex of this certificate.

Any changes in the design or manufacturer's quality system are to be approved by National Institute of Wind Energy (NIWE), Product Certification Body (PCB). Without approval, this certificate loses its validity.

This type certificate is valid until 26.07.2026.

Place: Chennai, India.
Date: 27.07.2021


S. Arubelvan
Assistant Executive Engineer,
Certification


A. Mathew
Director & Head, Certification.

Velachery - Tambaram Main Road, Pallikarasi, Chennai - 600 100, Tamil Nadu, INDIA
Website: <http://niwe.res.in>



CERTIFICATE OF APPROVAL

Issued by Indian Register Quality Systems
(A Division of IRCLASS Systems and Solutions Private Limited)

This is to certify that the Quality Management Systems of

Organisation: Southern Wind Farms Limited

Address: H.Q.: No. 14, First floor
Brindhavan Street Extension,
West Mambalam, Chennai - 600 033
Site: R.S. No. 164/2C, Pillayarkuppam,
Bahour Commune, Pudukcherry - 607 402

has been assessed and found conforming to the following requirement

Standard: ISO 9001:2015

Scope: Manufacture and supply of
Wind Turbine Generators

for Group of Company
& detailed Scope: Refer Annexure

Certificate No.: IRQS/Z10100055

Original Certification Date: 06/01/2007

Current Date of Granting: 03/01/2021

Expiry Date: 02/01/2024




Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Quality Management Systems of the organization to the above standard which will be monitored by IRQS. The use of the Accreditation Mark indicates accreditation with respect to activities covered by the certificate with accreditation no. QM 006. Condition Overleaf
COA/IRQS/NABCB/QMS/Rev 00
Head Office: 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.



REACH US AT

Southern Wind Farms Ltd

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West Mambalam, Chennai,
Tamilnadu, India

Email : info@swl.co.in
Website : www.swl.co.in

Wind Today, Green Tomorrow

Committed to superior quality and results
Reliable and easy to set up