Draft Indian Wind Turbine Certification Scheme 2018

HIGHLIGHTS

Nodal Agency	**:**	National Institute for Wind Energy (NIWE)
Applicable Technologies	**:**	New and existing wind turbines.
Scheme Period	**:**	From the date of notification of the scheme till further notification.
Scope	**:**	• Comprehensive certification scheme for: - Indian type wind turbines - Prototype wind turbines - Wind power projects - Wind turbine safety and performance
Validity of Certificates	**:**	• Type certificates – not exceeding 5 years. • Prototype certificates – not exceeding 3 years. • Project certificates – not exceeding the design life of various components. • Safety and performance assessment certificates – 2 years or as mentioned in the certificate.
Transition Period	**:**	• Wind turbines already included in the Revised List of Models and Manufacturers (RLMM) – one revision of type certificate or for a period of three years from effective date of implementation of IWTCS, whichever is earlier. • Inclusion in RLMM/ Indian Type Approved Model (ITAM) – 6 months from the effective date of implementation of IWTCS.

OTHER PROVISIONS

Recognized Certification Schemes	:	• Indian Type Certification Scheme (ITCS) as per IS /IEC 61400- 22. • IEC System for Certification to Standards relating to Equipment for use in Renewable Energy Applications (IECRE) - Type and Component Certification Scheme. • IEC/GL Schemes – for models already included in the RLMM and having type certificates or under certification.
Stakeholders	:	• Original equipment manufacturers • Developers • Investors • Testing laboratories • Certification bodies • Utilities, SNAs, IPPs, owners, authorities, financial institutions, insurers, etc.
Authoritative Bodies	:	• National Accreditation Board for Laboratories for testing agencies • National Accreditation Board for Certification Bodies (NABCB) /Bureau of Indian Standards (BIS) for certification bodies
Certification Body	:	NIWE or any CB accredited by NABCB/BIS as per ISO/IEC 17065 or recognized as Renewable Energy Certification Body (RECB) under IECRE.
Design modification	:	Design modification in the existing type certified wind turbines include: • A change in rotor diameter of more than 2%. • A change in rotor rotational speed of more than 2%. • A different design of the safety system. • A different way of limiting the power output. • Modified blade profiles. • Modifications which lead to a significant increase in the load spectrum (a change of 5% in the load value in any of the load cases shall be considered as a significant change). • Increase of power output by more than 5%. • Major changes in the wind turbine design.
Operating Bodies	:	• For certification – any certification body accredited as per ISO/IEC 17065 or accepted as RECB under IECRE/NIWE. • For type testing – any testing body accredited as per ISO/IEC 17025 • or accepted as Renewable Energy Testing Laboratory (RETL) under IECRE/NIWE.

Links	:	https://mnre.gov.in/node
References	:	https://mnre.gov.in/sites/default/files/webform/notices/Circular%20dtd%205%2011%202018%20for%20IWTCS%20%281%29.pdf