ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TÜV SÜD Industrie Service

B-Type Certificate

Subject: **Wind Turbine Inox Wind DF/2000/113**
Rotor Blade WB552-2.0
Hub Heights 92m and 120m, GL WTC IIIA

Registration No.: **005.03.2.01.18.07**

Applicant: **Inox Wind Ltd.**
Inox Tower Plot No 17
Sector 16 A
Noida – 201301, U.P.
Republic of India

Confirmation: It is hereby certified that the above mentioned subject has been assessed by TÜV SÜD Industrie Service GmbH concerning the design, the prototype testing and the manufacturing.

Assessment procedure: The conformity evaluation was carried out according to the 'Guideline for the Certification of Wind Turbines' issued by Germanischer Lloyd, edition 2010 and is based on the following reference documents:

Registration No.:	dated	Statements of Compliance / Reports
045.01.2.03.18.05	2018-11-14	B-Design Assessment HH 92m / 120m, by TÜV SÜD
005.03.2.04.18.03	2018-11-12	B-Prototype Testing DF/2000/113, by TÜV SÜD
005.03.2.05.18.06	2018-11-12	B-Production and Erection DF/2000/113, by TÜV SÜD
2380844-13-e Rev.7	2018-11-14	Final Assessment Report DF/2000/113, by TÜV SÜD

This Certificate is valid until **2019-11-11**

if the validity of the certification of the quality management system is maintained.

Outstanding items are specified in the Annex.

Munich, 2018-11-14

Dr.-Ing. M. Webhofer
Head of Certification Body Wind Turbines
TÜV SÜD Industrie Service GmbH

DAkkS Deutsche Akkreditierungsstelle D-ZE-14153-01-02

Certification Body for products according to DIN EN ISO/IEC 17065:2013 accredited by DAkkS. The accreditation is only valid for the scope mentioned in the accreditation certificate.

Dipl.-Ing. A. Trunz
Head of Department Wind Turbines
TÜV SÜD Industrie Service GmbH

INOX WIND LIMITED NOIDA

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TÜV SÜD Industrie Service GmbH
Certification Body Wind Turbines

TÜV SÜD Industrie Service

B-Type Certificate

Registration No.: **005.03.2.01.18.07**

Annex

This B-Type Certificate contains the following outstanding items, which are not directly safety relevant within the validity period of the type certificate:

- For achieving an A-Type Design Assessment the natural frequencies of the hybrid lattice tower shall be measured at the prototype turbine. If the deviation between the values assumed for the load assumptions and the measurements is more than ±5% the influence on the load assumptions shall be analysed and reviewed by the certification body before commissioning of further turbine variants with lattice tower.
- Manual for erection of the lattice hybrid tower shall be updated based on the experience with erection of the prototype. A maintenance program for the lattice hybrid tower shall be adjusted.
- For the rotor blade, the yaw bearing and the tower top flange the fatigue and ultimate strength verification shall be updated for the turbine configuration with lattice hybrid tower.
- The IPE inspection for the hybrid lattice tower with hub height 120 m shall be finalized.
- The relevant measurements for the hybrid lattice tower shall be performed. The required measurements are listed in the Final Evaluation Report.

End of annex

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