

GENERAL REQUIREMENTS FOR MEASUREMENT MASTS

• All sensor boom dimensions should be compliant with IEC 614 1:2017 standard.

As built dimensions of the met mast should be supplied by the after installation, as a separate chapter of the installation report.
All the sensors should be calibrated according to MEASNET st and the calibration certificates should be included in the installat
Measurement mast should be 120 m in height, which dictates t top two anemometers in fork configuration are both at 120 m height dimensions of the fork configuration should comply with the IEC 12 – 1:2017 standard.

• The measurement mast should be equipped with 6 anemometers, 120 m, 114 m, 84 m, 60 m, and 30 m heights. All anemometers be Thies First Class anemometers.

• The measurement mast should be equipped with 3 wind direction sensors at 114 m, 84 m, and 60 m. All direction sensors should be direction sensors.

• All booms for an instrument should be supported with a suppor structure to reduce vibration.

• The measurement mast should be equipped with an adequate protection system and earthed with an earthing rod.

• The measurement mast should have concrete foundation at the point. The guy wires should also be connected to the ground usi concrete foundations.

• The measurement mast should be equipped with two temperatives sensors. One temperature sensor should be around 4 m above of and the upper temperature sensor should be installed below the module of the met mast. As built height of the temperature sensor be documented on the installation report.

• The measurement mast should also be equipped with one pressensor and one relative humidity sensor. As built heights of these should be documented on the installation report.

• Temperature, pressure, and relative humidity sensors should a a calibration documentation included in the installation report.

• The datalogger time should be setup as UTC - 0 (Local time). should also be documented on the installation report.

• Measurements should be recorded in 10-minute intervals.

· Datalogger should send data to specified e-mail addresses dai

· Maintenance visits to the measurement masts should be carrie

every three months and a maintenance report should be prepare

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	Project Number	Figure No.
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	January 2022	CO
	Scale	Issue
	Not to scale	1
	Client Artfield Forest Wind Farm Ltd	
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