FOWPI (https://www.fowpi.in/)
FIRST OFFSHORE WIND PROJECT OF INDIA

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# Telecommunication and network

Modern large wind farms are mostly located in remote locations onshore or offshore. Furthermore, the height and size of the wind turbines are increasing leading to new challenges in terms of accessibility for maintenance and control activities. The need of efficient and accurate control and monitoring of wind farms is thus of high importance.

Todays advanced monitoring and control system lets operators perform remote analyses and adjustments in order to monitor and control the behaviour of the wind turbine generators and the auxiliary equipment such as Balance of Plant components and systems.

Several designated communication and control systems are normally expected in a wind farm and different solutions are adopted during the different development stages of a wind farm project.

This section will introduce the overall regulatory framework for establishing a telecommunication infrastructure in India in relation to a wind farm project.

## Telecommunication Regulations and Required Clearances

Department of Telecom (DOT) of Ministry of Communication, Government of India is the nodal agency for all telecommunication related matters in India. The DOT is responsible for appointing (licencing) Infrastructure Providers (IP) for a selected geo-graphical area and the type of telecommunication system within the country. Typically, all the relevant communication services (data, cellular, fibre optic networks, satellite telephony etc.) are provided through respective IPs. Only exception to these are Public Sector Unit such as Oil & Gas companies, who hold specific licences for their relevant areas of operations.

In the event that the required communication services, within the project area are already licenced to an IP(s), no separate permitting requirement applies for such location. However should an independent / standalone system of communication be required due to project design (e.g., installation of data cable, mobile telephone services under specific frequency bandwidth etc.), then this may imply a separate regulatory approval from the DOT.

Use of satellite phones are only permitted with specific permission from DOT. Presently, only INMARSAT (International Maritime Satellite Organisation) is allowed to provide satellite phone services through M/S Tata Communication Ltd in India. If these services are required, a No Objection Certificate is required from DOT, which is issued on Case-to-Case basis depending on the entity, purpose and geographical location (certain restriction applies in the area close to international boundary).

**For further information, refer the following informative links/materials:**

1. Department of Telecom (DOT) of Ministry of Communication, Government of India (http://www.dot.gov.in/)

2. “FOWPI – Knowledge Bank – Design, Engineering & Technical Database – SCADA & Communication”, August 2018.

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## Disclaimer:



Have any Questions? Send a Message.


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**Nodal Ministry for Offshore Wind Energy**

**Ministry of New and Renewable Energy | MNRE (http://www.mnre.gov.in/)**

**Nodal Agency for Offshore Wind Energy**

**National Institute of Wind Energy | NIWE (http://niwe.res.in/)**