

MEMORANDUM OF UNDERSTANDING

BETWEEN

**MINISTRY OF NEW AND RENEWABLE
ENERGY (MNRE), NEW DELHI**

AND

**NATIONAL INSTITUTE OF WIND ENERGY
(NIWE), CHENNAI**

FOR THE YEAR 2021-22

NATIONAL INSTITUTE OF WIND ENERGY, CHENNAI

Memorandum of Understanding – 2021-22

1. PART – I OBJECTIVES

NIWE is an autonomous R & D institution under the Ministry established to serve as the technical focal point for wind power development in India, for promoting and accelerating the pace of utilization of wind energy and support the growing wind power sector in the country. Other objectives of NIWE are:

- to carry out activities such as wind/ solar resource assessment, preparing wind energy density maps, wind/ solar atlas, Indian standards & its certification on wind turbines, activities related to offshore wind energy etc., in the area of wind/ renewable energy, as may be assigned by the Ministry from time to time;
- to develop and strengthen the facilities and capabilities, evolve strategies, promote, conduct, co-ordinate and support research and development programs to achieve and maintain reliable and cost effective technology in wind power systems;
- to undertake human resource development programs for the personnel working in the wind energy sector;
- to promote commercial exploitation of know-how, know-why results and offer various consultancy services to the customers;
- to promote the development and commercialization of other wind energy systems.

2. PART – II EXERCISE OF ENHANCED AUTONOMY AND DELEGATION OF FINANCIAL POWERS

As per Rule 51 of NIWEs Memorandum of Association (MOA), NIWE Recruitment Rules and Bye-Laws, the Director General has been delegated with full powers to incur expenditure on all NIWE activities up to the Budget Limit.

3. PART – III RESEARCH AND DEVELOPMENT

Whereas the Institute recognizes that the process of developments has to relate continuously to significant and notable changes that are taking



place in the Wind related industry and, rapidly exploring universe of knowledge in the area. And for that purpose, the Institute has:

1. to survive on specialization, work increasingly in frontline areas that transcend disciplines. The following thrust areas form part of the effort.
 - Research and Development (R & D)
 - Wind Resource Assessment and Offshore development (WRA&O)
 - Wind Turbine Testing (Both Large and Small)
 - Standards and Certification (S&C)
 - Information, Training and Customized Services (ITCS)
 - Wind Energy & Hybrid System
2. to have a perception and a value system appropriate to the pursuit of high engineering science to meet the critically evaluated needs of the Industry
3. to programme into their activities emerging technological needs with futuristic needs
4. to maintain and foster interactive linkage with leading technological institutions and Institutes of research in India and abroad.

4. PART- IV: ROLES OF MNRE AND NIWE

Ministry of New and Renewable Energy [MNRE] on its part shall endeavour to provide adequate funding as per the approval of the Governing Council of NIWE for all the approved activities, besides providing direction and guidance on the thrust areas for research in accordance with overall aim of the government.

In consideration of activities to be implemented, the Institute shall endeavour:

- To absorb the establishment related expenditure from its internal earnings that is over and above the sanctioned grant by the Ministry under this head;
- To increase the internal generation of revenue by at least 10 to 20% every year. The institute shall project expenditure pattern for its Internal Revenue Generation and anticipated earnings during the year.
- To levy User charges including overhead/institutional charges/management fee in respect of Consultancy/Sponsored Project, wherever the output or benefit of services are utilized by others are levied at appropriate rates as per amended GFR Rule No.47 and display the same in the website.
- To achieve self-sufficiency in the matter of meeting expenditure on account of Salary and Salary related expenditure for regular staff of NIWE.



- To seek approval of the Ministry for activities beyond DG's delegated powers including those relating to agreements with international parties.
- Ministry shall hold a quarterly review meeting with NIWE at MNRE to review Physical and Financial targets and NIWE will send achievements of the targets on monthly basis to the Ministry and will also be reviewed by GC, NIWE appropriately.
- The institute shall follow the policy level decision(s) of GC/ MNRE with regard to programme implementation from time to time

5. PART- V: SPECIFIC PARAMETERS AND TARGETS

The following are specific activities along with defined timelines which NIWE is expected to complete during 2021-22.

TARGETS FOR THE YEAR 2021-22

Sl. No.	Targets	Deliverables	Weightage %	Timeline
I	New Initiatives			
1.	Pre-feasibility report preparation	Pre-feasibility report preparation for the development of wind/wind-solar hybrid power project for one site in Non-Windy State (J&K)	6%	31.01.2022
2.	WRA studies in A&N Islands	Installation & commissioning of 100 m WMS in A&N Islands for which NoCs are obtained	6%	31.03.2022
3.	Offshore pre-feasibility and discussion paper	Offshore pre-feasibility report preparation and discussion paper for development of offshore wind projects in Tamilnadu and Gujarat	8%	31.01.2022
4.	Organize one National Level ILC under GOI-MNRE's National Lab Policy	To conduct one Inter-Lab Comparison by NIWE for laboratories & other service providers for achieving harmonization in interpretation of Standards.	8%	31.02.2022
5.	Complete one International level Proficiency Testing	To complete one Proficiency Test operated by IECRE-MEASNET group	8%	31.03.2022

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Sl. No.	Targets	Deliverables	Weightage %	Timeline
5.	Complete one International level Proficiency Testing	To complete one Proficiency Test operated by IECRE-MEASNET group	8%	31.03.2022
6.	NABL accreditation of NIWE Testing services	Complete successfully National Accreditation under NABL (along with new identified services)	6%	31.03.2022
7.	WTG Certification Projects	Two projects will be taken up	8%	31.12.2021
8.	Maintaining the Product certification body accreditation as per ISO/IEC 17065	Recommendation of NABCB to continue the accreditation	6%	28.02.2022
9.	Development of upgraded RLMM online portal (based on implementation experience)	Upgraded RLMM online portal (Version 1.0)	8%	31.03.2022
10.	Training courses	One International training courses will be conducted	6%	31.03.2022
11.	Paper & Publications by the Scientists at reputed journals	Publication of 5 research papers in peer review journals / international conferences	6%	31.03.2022
II On-Going Projects				
1.	RDPAC Project: Integrated Wind and Solar Resource Assessment through mapping measurements	Installation & commissioning of 100 m integrated wind – solar masts at all the sites for which NOCs are received by 31.12.2021	6%	31.01.2022

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Sl. No.	Targets	Deliverables	Weightage %	Timeline
2.	RDPAC Project: "Met-Ocean Measurements (Wave, Tide, Current, Water level etc.,) at Gulf of Khambhat and Gulf of Mannar for fostering the growth of Offshore wind in the country	Fabrication & Installation of Offshore Structure Installation & Commissioning of 2 nos. of LiDAR on the offshore platform in Tamil Nadu / Gujarat	6%	31.03.2022
3.	National Test Centre for Offshore Wind Turbines and Greening of Rameshwaram island	Preparation of Road map/Project report on establishment of National Test Centre (NTC) for Offshore WTs and greening of Rameshwaram island	6%	31.01.2022
4.	DST DTU (Denmark Technical University) Project – Hybridize (Three year research project starting in 2019-20)	Instrumentation of Wind Turbine and collection of Turbine Characteristic data for Yr.2020 Wind Season (DST project)	6%	May 2021
		Total Weightage	100%	



Director General
National Institute of Wind Energy
(NIWE), Chennai



Secretary
Ministry of New and Renewable Energy
(MNRE), New Delhi

Place:

Date: