

**NATIONAL INSTITUTE OF WIND ENERGY  
Chennai**

**MINUTES OF THE FORTY FIFTH MEETING OF GOVERNING COUNCIL  
OF NATIONAL INSTITUTE OF WIND ENERGY  
HELD ON 24<sup>th</sup> FEBRUARY 2020  
AT THE CONFERENCE ROOM OF MNRE, NEW DELHI**

The following were present:

1.	Shri. Anand Kumar, IAS, Secretary, MNRE, New Delhi	President of the Society & Chairman
2.	Shri. Bhanu Pratap Yadav, IA&AS, Joint Secretary (Wind Energy) MNRE, New Delhi	Member
3	Shri. Vimalendra Anand Patwardhan, IA&AS, Joint Secretary and Financial Adviser, MNRE, New Delhi.	Member
4	Shri. Bhanu Pratap Yadav, IA&AS, Chairman & Managing Director Indian Renewable Development Agency Limited, New Delhi	Member
5	Dr. K. Balaraman, Director General, NIWE, Chennai.	Member Secretary

ALSO PRESENT		
1.	Shri. Amitesh Kumar Sinha, Joint Secretary (Admn/Solar), MNRE	
2.	Shri. G. Upadhyay, Director (Wind), MNRE.	
3.	Shri. Salil Kumar, Dy. Secretary, MNRE.	
4.	Shri. P.Muthiah, Additional Director, TANGEDCO,	
5.	Shri. D.V.Giri, Secretary General, IWTMA	
6.	Dr. Rajesh Katyal, DDG (WSOM), NIWE Chennai	
6	Shri. D. Lakshmanan, DDG (F&A), NIWE, Chennai	
7.	Shri. Girirajan, Assistant Director, NIWE, Chennai	

The Chairman welcomed the members of Governing Council of NIWE and briefed about the new initiatives being taken-up by the Ministry in the wind energy sector and the areas in which NIWE's active role is required.

The Council thereafter took up the Agenda for discussion.

**Agenda item No. 45:01: To grant leave of absence to the Members who were not present in the Meeting.**

The Council granted leave of absence to Smt. Sunaina Tomar I.A.S., Principal Secretary Energy & Petrochemicals Dept., Govt. of Gujarat; Shri. A Karthik I.A.S., Principal Secretary, Energy Dept., Govt. of Tamilnadu; Shri Jitendra J Jadhav, Director, National Aerospace Laboratories and Chairman, R&D Council, NIWE; Dr. Raj Kumar, Dy. Director, EPSA, Space Application Centre ISRO; Prof. Nagesh R. Iyer, Expert, former Director CSIR-SERC and Dean IIT Dharwad; Shri Tulsi R Tanti, Chairman, Indian Wind Turbine Manufacturers Association; Shri Sunil Jain, Chairman, Wind Energy Independent Power Producers Association (WIPPA); as they could not attend the Meeting and requested for leave of absence. GC granted them leave of absence.

**Agenda item No.45:02: To confirm the Minutes of the 44th Meeting of Governing Council of NIWE held on 23-09-2019**

The approved minutes of the 44<sup>th</sup> Meeting of the Governing Council of NIWE held on 23.9.2019 at MNRE, New Delhi were circulated to all the members. Member Secretary briefed that no comments were received from the members on the approved minutes of the meeting.

The Council confirmed the minutes of the 44<sup>th</sup> meeting.

**Agenda item No.45.03: To review and approve the action taken on the decisions of previous Council Meetings.**

Member Secretary explained in detail the action taken by NIWE on the decisions of previous Council Meetings. Item wise observations made by GC is given below:

<b>a</b>	<p><b>Agenda item No.39.04 (i), 40.03 &amp; 42.03(b) : Wind Resource Assessment Studies on existing Telecom Towers in North Eastern.</b></p> <p>GC noted and advised NIWE to complete the remaining wind monitoring station (WMS) systems before the end of March, 2020 and also advised to expedite the preparation of DPR for developing of wind solar hybrid system in Manipur and Meghalaya before the end of March 2020.</p>
<b>b</b>	<p><b>Agenda item No.40.04 &amp; 42.03 (c): Geotechnical and Geophysical studies off the Gujarat and Tamil Nadu Coast.</b></p> <p>Member Secretary briefed GC on the progress made in Gujarat. The final report is yet to finalized due to insufficient fund. Also, the award of work for Tamilnadu to NIOT is pending for necessary budgetary allocation. The total amount required is Rs. 13.71 Crores</p>

	<p>GC advised NIWE to consolidate the fund requirements and send to Finance Committee for examination and consideration.</p>
<b>c</b>	<p><b>Agenda item No.40.05, 42.03 (d): Installation of Monopile substructure and platform for mounting LiDAR at Gulf of Mannar, Tuticorin, Tamil Nadu for Offshore Wind Resource Assessment</b></p> <p style="text-align: center;"><b>&amp;</b></p> <p><b>Agenda item No.41.05 &amp; 42.03 (k): To consider and approve the progress Met-ocean measurements (Wave, Tide, Current, Water level etc.) at Gulf of Khambhat and Gulf of Mannar through RDSPAC for fostering the growth of offshore wind in the country.</b></p> <p>Member Secretary briefed GC on the progress made and stated that all the clearances are obtained except from MEA which is being followed up along with MNRE officials.</p> <p>Further, it was noted that Zone A1 and B2 geo-technical studies were completed for Gujarat and the design of monopole structure is under progress.</p> <p>For Tamilnadu, Geo-technical work is pending as the contractor refused to accept the work order unless the modification in Force Majeure clause to include the compensation for stoppage of work due to any agitation by fisherman or local issues.</p> <p>Also, in order to undertake the project, additional funds to an extent of Rs. 7.5 Crores is necessary for geo-technical, design, fabrication, erection and commissioning of monopole &amp; platform for Lidar placement.</p> <p>GC noted the same and advised JS&amp;FA &amp; JS(wind) MNRE to look into the issue of force majeure and to decide on the same.</p> <p>GC advised NIWE to send the proposal to MNRE for examination and consideration.</p>
<b>d</b>	<p><b>Agenda item No.40.06 &amp; 42.03 (e): Geotagging / On-line registry of wind turbines</b></p> <p>GC advised NIWE to complete the work at the earliest. Further, it was decided that a letter would be sent to SECI from MNRE for geotagging all the turbines before commissioning.</p>
<b>e</b>	<p><b>Agenda item No.40.15 &amp; 42.03(i): Any other item with the permission of the Chair Agenda item No. 40.15(b): Procurement of 2 Nos. of Remote Sensing Instruments (LiDAR/SODAR)s</b></p> <p>DG, NIWE informed about procurement of 2 nos. of remote sensing instruments. GC noted the same.</p>

f	<p><b>Agenda item No.41.06 &amp; 42.03(I) : To Consider and approve proposal on Integrated Wind Solar Resource Assessment.</b></p> <p>DG, NIWE informed the status of the progress made in the project for information of GC. GC noted the progress made.</p>
h	<p><b>Agenda item No.40.07 &amp; 43.13: Procuring LVRT testing facility and initiating testing of LVRT and To consider and approve the Justification for procurement of LVRT Test Facility</b></p> <p>After detailed discussion, it was observed that in view of the ambiguity in the CEA regulation, the proposal for procurement of LVRT &amp; HVRT may be deferred.</p>
i	<p><b>Agenda item No.40.08 II a : Establishment of Centre for Excellence in Wind Power Forecasting at NIWE, Chennai</b></p> <p>GC noted the status forecasting project and suggested that NIWE should further expand the forecasting of wind energy at National level.</p>
j	<p><b>Agenda item No.40.13 : Establishment of Renewable Energy Demo Lab at Wind Turbine Test Station at Kayathar.</b></p> <p>The status of the progress made in the construction work was noted by GC.</p>
k	<p><b>Agenda item No.41.11 (i): Establishment of Small Wind Turbine Hub Facility for Design and Component Testing at the Renewable Demonstration Lab in Wind Turbine Research Station(WTRS), Kayathar with a budgetary cost of Rs.7.52 crores (excluding GST).</b></p> <p>After detailed discussion GC observed that as the requirement of Small Wind Turbine Testing and development is not clear the proposal may be deferred.</p>
l	<p><b>Agenda item No.42.13 &amp; 43.08 : National Blade Test Facility : To consider and approve Proposal for Establishment of Blade Test Centre (Large Wind Turbine)</b></p> <p>The issue was discussed as a separate agenda item.</p>
m	<p><b>Agenda item No.43.06 : The work progress as per Minutes of 27th R&amp;D Council meeting of NIWE</b></p> <p>The minutes of the meeting of RC was discussed. GC noted the same.</p>
n	<p><b>Agenda item No.43.07 : To consider and approve the Rapid EIA for the 1 GW offshore wind block off Gujarat Coast</b></p> <p>Member Secretary brief the progress of the EIA studies and stated that Stakeholder consultation of the draft report were held at MNRE. Based on the inputs, the report is being finalized. Further, it is briefed that additional</p>

	<p>funds to an extent of Rs. 1.77 Crores is necessary for payment to NIO Goa for the work carried out.</p> <p>GC noted the same and advised DG NIWE to consolidate the requirements of funds and furnish requirements to JS(Wind) and JS&amp;FA for further process.</p>
<b>o</b>	<p><b>Agenda item No.43.09 : To consider and approve Establishment of Wind and Solar Data Resource Centre and Analytics Laboratory in NIWE, Chennai</b></p> <p>GC advised NIWE to send the proposal to MNRE for further examination.</p>
<b>p</b>	<p><b>Agenda item No.43.10 : To consider and approve medical facilities for all staff including retired and retiring officials</b></p> <p>GC noted the status of the progress made under this activity.</p>
<b>q</b>	<p><b>Agenda item No.43.11 : To consider and approve Proposal to allow NIWE to provide the Certification related services in co-operation with the Internationally Accredited Certification bodies as per the needs of the Indian Wind Industry</b></p> <p>The progress made was noted by GC.</p>
<b>r</b>	<p><b>Agenda item No.43.12 : To consider and approve Concept note for establishing Skill Development Centre at WTTS, Kayathar</b></p> <p>GC after discussion approved for developing the certification program with the duration of 3 months for Executives and Technicians. It also approved for developing Master's Degree program in association with Universities or academic institution of excellence and advised to float Expression of Interest (EOI) to identify partner's for conducting this program from the academic institutions/ Universities.</p>
<b>s</b>	<p><b>Agenda item No.43.14 : To consider and approve the Proposal on "Wind Turbine Testing Program: Building Quality Assurance &amp; Capacity</b></p> <p>GC noted the progress made under the project.</p>
<b>t</b>	<p><b>Agenda item No.44.07 : To consider and approve the proposal for Wind Monitoring Stations</b></p> <p>The progress made under the project was noted by GC.</p>
<b>u</b>	<p><b>Agenda item No.44.08 : To consider and approve taking up Wind resource assessment studies for the Indian Army/ Defense/ BSF and other Government departments/ agencies</b></p> <p>The status of the progress made was noted by GC.</p>

v	<p><b>Agenda item No.44.09 : To consider and approve bench marking of costs for assessment of Capital Costs and O&amp;M Costs for Wind Energy Technology for estimating Tariff as per the requirements of CERC/SERC</b></p> <p>GC directed NIWE for early completion of the project.</p>
w	<p><b>Agenda item No.44.10 : To consider and approve hiring Project Engineers / Outsourced Staff for various projects / Consultancies undertaken by NIWE</b></p> <p>The proposal was discussed as separate agenda.</p>

**Agenda item No. 45.04: To consider and approve the recommendations of 30th Meeting of the Finance Committee of NIWE**

GC after discussion approved the Minutes of the 30th Finance Committee Meeting held on 24-02-2020. It also advised NIWE to prepare the detailed statement of liabilities under different heads:

- Administrative Head including salary, medical, transport, electricity, maintenance contract, and TA, DA expenses relating to ongoing projects and other committed expenditure
- Bills pending for payment and expenditure during the year 2021 for which purchase order is already raised.
- Ongoing project expenditure during the year 2020-21
- For any new projects liability during the years 2020-21, 2021-22 and 2022-23
- Revenue from various activities and proposed new ventures
- New land and building infrastructure, fund required for each year

**Agenda item No. 45:05: To consider and approve the Minutes of 28th R&D Council meeting of NIWE**

The Member Secretary briefed the GC about the recommendations of the 28<sup>th</sup>R&D Council meeting held on 10<sup>th</sup> February 2020 and sought approval on the recommendations.

GC noted the recommendations made by RC council in its meeting held on 10<sup>th</sup>February, 2020.

**Agenda item Nos:45.6 to 45.13:**

<b>Agenda Item</b>	<b>Title</b>	<b>GC remarks</b>
45:06	To consider and approve Creating wind geo-grid for wind profiling	Member Secretary briefed each project under R&D mode.  After detailed discussion, the GC advised DG, NIWE to consolidate the proposals under the following Heads and submit the same to RDPAC of MNRE for consideration.  1.Wind & Solar Forecasting 2.Resource Data Analytics and creation of Geo-grid for RE profiling 3.Creation of controller and IoT for wind turbine and wind farm 4. Repowering.
45:07	To consider and approve Proposal on Repowering pilot study under R&D activity	
45:08	To consider and approve Establishment of Centre for Excellence in Solar Power Forecasting under R&D activity	
45:09	To consider and approve Development of a Prototype controller to control different OEM WEG SCADA under R&D activity	
45:10	To consider and approve Centre for Excellence in Wind Power Forecasting under R&D activity	
45:11	To consider and approve Establishment of Centre for Excellence in Resource Data Analytic under R&D activity	
45:12	To consider and approve IoT based smart wind farm to enable real time remote monitoring and control under R&D activity	
45:13	To consider and approve Development of Long term wind speed forecasting using Hybrid model under R&D activity	

**Agenda item No. 45:14: To consider and approve Hiring of Project Engineers for Regulatory works of NIWE**

Member Secretary explained the proposal for Hiring of Project Engineers for Regulatory works of NIWE.

GC after discussion approved the proposal and advised both DG, NIWE and JS(Wind) to revise the RLMM projects fees in line with the ALMM fees with different fees for <2 MW and >2MW wind Turbines, to be implemented with effect from 1st April, 2020.

**Agenda item No. 45:15: To consider and approve hiring Project Engineers for maintaining the accreditation and expanding services undertaken by Certification division under IE**

Member Secretary explained the proposal hiring Project Engineers for maintaining the accreditation and expanding services undertaken by Certification division under IE.

GC after discussion approved the proposal.

**Agenda item No. 45:16: To consider and approve Establishment of National Blade Test Facility**

Member Secretary explained the proposal for Establishment of National Blade Test Facility.

GC after discussion approved the proposal in principle and advised DG, NIWE to float Expression of Interest (EOI) for identifying industrial partner and developing commercial model for establishing facility.

**Agenda item No. 45:17: To consider and approve Establishment of National Test Centre for Offshore Wind Turbines**

Member Secretary explained the proposal for Establishment of National Test Centre for Offshore Wind Turbines.

After detailed discussion GC advised NIWE to engage with international agencies/countries under the existing MOU for carrying out preliminary project report and further development.

**Agenda item No. 45:18: To consider and approve Refurbishment of monopile and platform for LiDAR based offshore measurement installed at Gulf of Khambhat off Gujarat Coast**

Member Secretary explained the proposal for refurbishment of monopile and platform for LiDAR based offshore measurement installed at Gulf of Khambhat off Gujarat Coast.

GC after detailed discussion directed NIWE to submit the proposal to the Ministry for examination.

**Agenda item No. 45:19: To consider and approve Proposal for “Continuation on regular mode of Unified SRRA Project (USP)”**

Member Secretary explained the proposal for “Continuation of Unified SRRA Project (USP)”. The project is part of JNNSM started in 2010 and later expanded in 2013 at a total cost of Rs.55.44 Crores. At present 111 SRRS stations are in operation in various part of the country. As per the letter No. 24/02/2015-16/JNNSM dated 30<sup>th</sup> June 2016, both the phases are combined and given extension of the project upto 31<sup>st</sup> March 2020. The project comprises of solar radiation measurement, developing quality data assessment of solar potential, data processing, modelling and updating solar atlas of the



Country. With scaling up of solar generation in the country, it is essential to continue the project.

After detailed discussion, GC approved the proposal in principle and advised NIWE to coordinate with JS(Solar) for finalizing the funding on regular project mode.

**Agenda item No. 45:20: Any other item with the permission of the Chair**

As there were no other items to be discussed, the meeting ended with a vote of thanks to the Chair.

**Chairman, GC, NIWE**