

# NATIONAL INSTITUTE OF WIND ENERGY

Chennai

## MINUTES OF THE FORTY FIRST MEETING OF GOVERNING COUNCIL OF

NATIONAL INSTITUTE OF WIND ENERGY HELD ON 17.03.2018

AT THE SEMINAR HALL OF NIWE, CHENNAI

The following were present:

1.	Shri. Anand Kumar, I.A.S. Secretary, MNRE, New Delhi	Chairman
2.	Ms.Gargi Kaul, I.A.A.S. Additional Secretary & Financial Adviser MNRE, New Delhi	Member
3.	Shri Bhanu Pratap Yadav, I.A.A.S. Joint Secretary (Wind Energy) MNRE, New Delhi	Member
4.	Dr. K.Balaraman Director General National Institute of Wind Energy	Secretary

ALSO PRESENT		
5.	Dr.Rajesh Katyal Deputy Director General & Group Head (WRA&O), NIWE	Invitee
6.	Shri.D.Lakshmanan Deputy Director General & Group Head (F&A),NIWE	Invitee
7.	Dr.G.Giridhar Deputy Director General & Group Head (SRRA), NIWE	Invitee
8.	Shri.S.A.Mathew Director & Group Head (T&F), NIWE	Invitee
9.	Shri.A.Senthil Kumar Director & Group Head (S&C), NIWE	Invitee
10.	Shri.J.C.David Solomon Director & Group Head (R&D, ITCS & IT), NIWE	Invitee
11.	Shri.A.Hari Bhaskaran Scientist 'C', Wind Power Division, MNRE, New Delhi	Invitee

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. 41:01 : To grant leave of absence to the Members, who were not present in the Meeting.**

Shri.Vikram Kapur, I.A.S., Principal Secretary to Govt., Energy Dept., Govt. of Tamil Nadu, Shri.Sujit Gulati, I.A.S., Additional Chief Secretary, Energy & Petrochemicals Department, Gujarat, Shri.Kuljit Singh Popli, Chairman & Managing Director, IREDA, New Delhi and Dr.Raj Kumar, Deputy Director (EPSA), Space Application Centre, ISRO, Ahmedabad could not attend the Meeting. GC granted them leave of absence.

**Agenda item No.41:02 : To confirm the Minutes of the 40<sup>th</sup> Meeting of Governing Council of NIWE held on 25.09.2017.**

The approved minutes of the 40<sup>th</sup> Meeting of the Governing Council of NIWE held on 25.09.2017 at MNRE, New Delhi were circulated to all the members. No comments were received from the members on the approved minutes of the meeting.

The Council confirmed the minutes of the 40<sup>th</sup> meeting.

**Agenda item No.41.03: To review and approve the action taken on the decisions of previous Council Meetings. (i.e. wherever action is pending.)**

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

**a) Action taken on the Agenda item No.39.4 (a):** The Secretary, GC NIWE explained the works carried out for the project "Wind Resource Assessment in uncovered/new areas 2013-14/15 at 100 m level in Chhattisgarh".

Secretary, briefed that 10 wind masts at 100m level have been installed at Chhattisgarh

and data collection progress is under way. The Data collection will be carried for a period of 2 years.

GC noted progress.

**b) Action taken on the Agenda item No.39.4 (e):** Regarding proposal on Solar Power Forecasting for India, Secretary, GC NIWE explained the works carried out so far. Also he informed that further, NIWE has submitted the proposal to SLDC, Gujarat for which the response is still awaited.

GC noted the progress.

**c) Action taken on the Agenda item No.39.4(f):** The Secretary, GC NIWE explained the proposal of Procurement of 100-150 acres of land near Mamallapuram, East Coast Road from Hindu Religious Charitable Endowments Department (HR&CE) under the control of Government of Tamilnadu for establishment of a Second Campus for NIWE .

After discussions, GC approved the proposal of NIWE and advised DG, NIWE to proceed further with regard to procurement of the land.

**d) Action taken on the Agenda item No.39.4(g):** Regarding, proposal for creation of 13 posts for Offshore activities, Secretary, GC NIWE explained that the advertisement has been issued and further process is on regarding the recruitment of the staff.

GC noted the progress.

**e) Action taken on the Agenda item No.39.04 (h) :** Regarding, Transit Office at Delhi on lease basis from IREDA, Secretary, GC NIWE explained that the lease agreement has been signed as approved by GC.

GC noted the progress.

**f) Action taken on the Agenda item No.39.04 (i) & 40.03 :** Regarding, Wind Resource Assessment Studies on existing Telecom Towers in North Eastern, Secretary, GC NIWE explained the progress made so far. It is also briefed that NIWE has discussed the erection of wind sensors with M/s.Airtel & M/s.BSNL and proposed to undertake the work in phased manner as written in the proposal.

GC noted the progress.

**g) Action taken on the Agenda item No.40.04:** Regarding, Geotechnical and geophysical studies off the Gujarat and Tamil Nadu coast, Secretary, GC NIWE explained the progress made so far.

GC noted the progress.

**h) Action taken on the Agenda item No.40.05:** Regarding, Installation of Monopile substructure and Platform for mounting LIDAR at Gulf of Mannar, Tuticorin, Tamil Nadu for Offshore wind resource assessment, Secretary, GC NIWE explained the progress made so far and also stated that the monopile substructure is expected to be completed by August, 2018 and installation of LIDAR on the platform by September 2018

After the detailed discussions, GC noted the progress.

**i) Action taken on the Agenda item No.40.06:** Regarding Geotagging /On-line registry of wind turbines, the Secretary, GC NIWE explained that NIWE has so far collected the details of wind turbine installations for about 15GW as against 33GW. In this regard, DG NIWE requested MNRE to provide the needed support for obtaining balance details from SNAs/utilities/wind turbine manufactures/ wind farm developers/IPPS.

After the discussions, the GC decided that, the location/ energy production details should mandatorily be provided to NIWE for any installed wind turbine in India.

In this regard, Chairman, GC/ Secretary advised JS [WE] MNRE to issue necessary directives to all the stakeholders to provide such details to NIWE by 15/4/2018.

**j) Action taken on the Agenda item No 40.07 :** Regarding, Low Voltage Ride Through (LVRT) testing facilities Secretary, GC NIWE explained the details of proposal regarding the rental/ lease and purchase of LVRT equipment.

During the meeting, it was also discussed that the availability of LVRT testing equipment with private companies in India. GC opined that even though LVRT testing services are offered by private companies in India, NIWE also shall have to provide the LVRT testing services. AS/FA advised NIWE to record proper justification for renting/ leasing option.

After the discussions, GC approved the proposal of both leasing/rental and procurement option.

**k) Action taken on the Agenda item No 40.08 :** Regarding establishment of Centre for Excellence for wind power forecasting at NIWE, Secretary, GC NIWE explained that Variable Generation Forecasting lab has been set up to provide Forecasting services to all wind-rich states of India and also explained the status of MoU signed with SLDCs for offering wind power forecasting.

GC noted.

**l) Action taken on the Agenda item No 40.10:** Regarding filling up the post of Hindi-Translator – on deputation/deputation followed by absorption - Delinking of the Post of Typist from the Post of Hindi Translator cum Typist.

Secretary, GC NIWE explained that based on the approval of GC, the advertisement for Hindi Translator was issued and no application was received within the due date. GC after discussion approved that the post may be filled upon contract basis or by recruiting retired staff of Government/PSU/ Autonomous/ Research Institution with a lump sum gross salary as per rules.

**m) Action taken on the Agenda item No 40.11:** Regarding Revision of payment terms for consultancy projects undertaken by NIWE, Secretary, GC NIWE explained that for the consultancy projects, NIWE is obtaining 100% advance payment from the customers, as per the decision of GC, presently.

However, the Secretary, GC NIWE explained the practical difficulties in obtaining 100% advance for all the consultancy projects. After deliberations, Chairman GC agreed to consider the revision of payment term of 100% advance payment and, GC directed NIWE to prepare a proposal for obtaining fees along with payment terms for the consultancy projects and submit the proposal to Ministry through FC for approval. GC also suggested that while drafting the norms, NIWE shall prepare payment terms for the consultancy projects under the following three categories:

1. Private Consultancy (50% advance of upfront may be obtained)
2. Government / public sector consultancy.
3. International consultancy.

In case of any bad debts, GC advised NIWE to follow the procedures already prescribed for handling bad debts as per uniform accounting policy prescribed by CGA.

**n) Action taken on the Agenda item No 40.15 (b) :** Regarding Procurement of 2 nos. of Remote Sensing instrument (LiDAR/SODAR)

Secretary, GC NIWE explained the progress of works carried out by NIWE in connection with procurement of 02 Nos. of LiDAR/SODAR.

GC noted the progress.

**o) Action taken on the Agenda item No: Any other item (a) : Regarding starting of certificate course GC directed NIWE to develop a certificate course in consultation with IITs/DTU, Denmark.**

Secretary, GC NIWE explained that NIWE is in consultation with premier institutions like IIT/Anna University for starting of 3-6 month certificate course for Technicians and Diploma Holders by NIWE.

GC opined that NIWE might discuss with DTU, Denmark/IIT for overall framing of the course. GC also advised NIWE to discuss with the wind turbine manufacturers and other stakeholders to understand their requirements in connection with formulation of the

course, so that after the successful completion of the course, certificate holders would be in a position to obtain the employment in the wind energy sector.

GC directed NIWE to obtain approval from Skill Development Council to conduct such certificate course, which would facilitate that certificate issued by NIWE is recognized in the industry. After discussions, it was decided by GC that except the approval from Skill Development Council, there is no need to obtain any other approval to start such certificate course.

**p) Any other item (b):** Regarding on developing NIWE into a world class institution

Secretary, GC NIWE explained that the signing of MoU with international reputed research institutions in the world viz., DTU Wind, Fraunhofer Bremerhaven and Fraunhofer Kassel is under process. A team from NREL, USA visited NIWE and had a detailed discussions. The discussion is on for possible collaboration and also there is a request from Clemson University, South Carolina.

Secretary, GC NIWE explained that MoU with DTU Wind, Fraunhofer Bremerhaven and Fraunhofer Kassel will be signed after the consent obtained from MNRE.

**q) Any other item (c):** Regarding number of Scientists in NIWE, Secretary, GC NIWE explained in detailed about the proposal of additional posts on contract basis on fixed salary placed as an Agenda item no.41.09.

GC noted.

**Any other item (e):** Regarding conducting technical workshop on areas like Offshore, forecasting/scheduling and wind resource assessment, Secretary, GC NIWE explained the Technical Workshop being conducted at NIWE.

GC noted.

**Agenda item No.41.04: To consider and approve signing of MoU for the year 2018-19 between NIWE and MNRE.**

The Secretary, GC NIWE briefed the GC that as per Rule 208 [vii] of GFRs, NIWE is required to

sign MoU with the Ministry mentioning about the activities to be carried out during the ensuing financial year i.e. 2018-19.

The GC after discussion provided in-principle approval and authorized Joint Secretary (Wind Energy), MNRE to finalize the MoU in consultation with DG, NIWE so that MoU can be signed.

**Agenda item No. 41:05 : To consider and approve 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.**

Secretary, GC NIWE explained the Proposal on 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.

The GC after discussion provided in-principle approval for the proposal on Met-Ocean measurement at Gulf of Khambhat and Gulf of Mannar for fostering the growth of Offshore wind in the country with a budgetary cost of Rs.60.00 crore (excluding GST). GC advised NIWE to obtain the approval of FC for budget and thereafter approval of Chairman GC/Secretary MNRE to be obtained.

**Agenda item No. 41:06 : To consider and approve Proposal on Integrated Wind Solar Resource Assessment**

A] Preparation of wind potential map at 150m agl.

Secretary, GC NIWE explained the proposal on Preparation of wind potential map at 150m agl and the need for having such a map.

After deliberations, GC approved the proposal for preparation of 150m Meso-scale wind potential map with a budgetary cost of Rs.1.56 crore (excluding GST). Further GC advised NIWE to release 120m wind potential map of the country after due validation by 31/8/2018.

B] Integrated wind solar resource assessment at 25 locations.

Secretary GC NIWE briefed GC the exhaustive details for having Integrated wind solar resource assessment at 25 locations at a cost of Rs.12.48 crores excluding GST to be carried out over a period of 30 months.

GC after detailed discussions approved the proposal and advised NIWE to submit the proposal to MNRE for consideration and approval under R&D Budget of MNRE.

GC advised NIWE to take initiative to offer consultancy projects in resource assessment on wind and solar areas. NIWE clarified that for consultancy in resource assessment on wind is already being offered.

**Agenda item No. 41:07: To consider and approve Bench marking of costs for assessment of Capital Costs and O&M Costs for Wind Energy Technology for estimating Tariff as per the requirements of CERC/SERC**

Secretary, GC NIWE explained the need for carrying out Bench marking of costs for assessment of Capital Costs and O&M Costs for Wind Energy Technology for estimating Tariff as per the requirements of CERC/SERC.

The GC after discussion approved the proposal of NIWE for Bench marking of costs with a budgetary cost of Rs. 35 lakhs (excluding GST).

**Agenda item No. 41:08: To consider and approve preparation of Indian Wind Turbine Certification Scheme**

Secretary, GC NIWE explained the need for formulating a comprehensive Indian Wind Turbine Certification Scheme (IWTCS) and explained the shortcomings present available to be addressed by the Indian certification scheme.

The GC after discussion approved the proposal for preparation of Indian Wind Turbine Certification Scheme.

**Agenda item No. 41:09: To consider and approve to meet the expenses of the contract staff to be recruited for Offshore/Testing & Forecasting/ Certification/ R&D for a period of 5 years**

Secretary, GC NIWE explained the proposal to meet the expenses of the contract staff to be recruited for Offshore/Testing & Forecasting/Certification/R&D for a period of 5 years. He further mentioned that the targets outlined in MOU for the year 2018-19 have been drawn up based on the anticipation that the additional staff required to execute these projects as outlined in Agenda would be approved.

After detailed deliberation GC, advised NIWE to prepare a scheme for engaging staff under contract mode with details such as qualification, GATE score, lump sum salary, increase in salary per year, No. of years after which designation changes etc. and submit the proposal to FC after which the same shall be put up to Secretary MNRE/Chairman GC for approval.

**Agenda item No. 41:10: Request for Additional Budget Sanction for “Geotechnical and Geophysical studies off Gujarat and Tamil Nadu Coast”**

Secretary, GC NIWE explained the Proposal for additional budget sanction for “Geotechnical and Geophysical studies off Gujarat and Tamil Nadu Coast”.

The GC after discussion approved the proposal for Additional Budget Sanction for “Geotechnical and Geophysical studies off Gujarat and Tamil Nadu Coast with an additional cost of Rs.4.5 crore.

**Agenda item No. 41:11: To consider and approve the Agenda and Minutes of the 26th Meeting of the R&D Council held on 07.03.2018.**

Secretary, GC NIWE briefed GC on the deliberations for the 26<sup>th</sup> R&D Council Meeting of NIWE held on



07.03.2018 and sought approval for its recommendations as outlined in the minutes.

**GC discussed the six numbers of RC approved projects.**

GC after detailed discussion provided approval for the following projects:

1. 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).
2. Small Wind Turbine International Conference with a budgetary cost of Rs.65.00 Lakhs (excluding GST).
3. Establishment of Testing Facility for active power control, reactive control, frequency response and other grid requirements in Wind Turbines with a budgetary cost of Rs.13 crores (excluding GST).
4. Development of LVRT for Sub-Megawatt Class Wind Turbine (R&D proposal submitted to MNRE) with a budgetary cost of Rs.2 crores (excluding GST).

For the RC approved project viz., Establishment of National Research and Test Centre for Offshore Wind Turbines at Dhanushkodi, GC after detailed discussions provided in-principle approval with a budgetary cost of Rs. 304 crores (excluding GST). GC advised to place the proposal to FC.

For the RC approved project viz. Blade Test Facility for Wind Turbines with a budgetary cost of Rs.30 crores (excluding GST), after the detailed discussions, GC advised NIWE to include the proposal along with the creation of the second campus of NIWE.

**Agenda item No. 41.12: Any other item with the permission of the Chair**

**a) Establishment of Smart Re-Micro Grid with Integrated Resource and Building Management System (IRBM) for NIWE, Chennai**

Secretary, GC NIWE explained the proposal for the establishment of Smart Re-Micro Grid with Integrated Resource and Building Management System (IRBM) for NIWE, Chennai. It was also explained that it would be a first such building under the Ministry to be Net Zero Energy Building besides being showcase cum demonstration facility with all the modern sensors and load controllers.

The GC after the detailed discussions, approved the proposal.

**a. Composition of Governing Council, NIWE**

Secretary, GC NIWE explained the present composition of Governing Council of NIWE and the composition approved as per NIWE's Memorandum of Association, Rules & Regulations & Bye-Laws of NIWE. The GC advised that the composition of the Governing Council have to be maintained as per the approved Bye-laws of NIWE. Chairman GC/ Secretary, MNRE advised JS (WE), MNRE to modify the GC composition as per the Bye-Laws of NIWE.

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

  
**Chairman, GC, NIWE**