

ANNEXURE-I

Procedure to be adopted by TANGEDCO for Repowering of old WEG's in Tamil Nadu

1. Introduction:

The wind generation started in Tamil Nadu from 1986 with the machine capacity of 200 KW, 225 KW, 250 KW, 410 KW, 500 KW, 550 KW & 600 KW. These machines have served their life period and still running. Most of them are under EPA or EWA with a tariff of Rs.2.75 and Rs.2.90 per unit due to technological advancement now the machine capacities are 750 KW, 850 KW, 1500 KW, 2000KW and 2100KW. Earlier the WEG developers were insisted to adopt 5D and 7D spacing and for repowering this has been relaxed based on the MNRE guidelines.

2. Objective:

Objective of the Repowering Policy is to promote optimum utilization of wind energy resources by creating facilitative framework for repowering.

3. Eligibility:

All wind turbine generators would be eligible for repowering under the policy.

4. Implementation Arrangements:

Type I : REPOWERING NOT EXCEEDING THE INSTALLED CAPACITY

A. The PPA tariff up to 2009 is either Rs.2.75 or Rs.2.90 per unit and so adopting Feed in Tariff (FIT) of Rs. 2.80 per unit for all the generation after repowering or the latest tender discovered rate at the time of commissioning of repowered WEG whichever is less, is to be adopted by TANGEDCO.

B. Similarly for the WEG's under wheeling agreement, it is proposed to adopt the latest Wind Energy Tariff Order No.6 of 2018, dt:13.04.2018 for wheeling and banking since all the repowered WEG's are considered as new WEG's as per the MNRE guidelines.

TYPE-II: REPOWERING EXCEEDING THE INSTALLED CAPACITY

Since most of the substations in which the repowering potential exists, are fully loaded the accommodating of additional capacity due to repowering needs load flow study.

- a) After load flow study if the feasibility exists for additional capacity the repowering may be considered, subject to land and technical feasibility.
- b) The RWEG's shall be planned for inter-connection with STU/TANGEDCO substation through dedicated transmission line/cable at voltage level of 11 KV and above.


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- c) *The improvement needed in the existing board substation will be under IDC scheme by the developer @ Rs 30 Lakhs/MW subject to load flow study and feasibility of the space and technical constraints of the particular substations. If the feasibility of the particular generator is not available, the developer has the option to erect new substation under sec 10(1) of the Electricity act 2003 as per the prevailing procedure in vogue. The developer may also establish the connectivity by themselves through already established substation erected and maintained by the other developers under sec 10(1) of the Electricity Act 2003. The entire cost of Transmission from the project up to the STU/TANGEDCO substation including cost of construction of line, breakers bay etc. shall be borne by the RWEg's and it will not be reimbursed by the TANGEDCO or met by the STU/TANGEDCO. The responsibility of getting Transmission Connectivity and access to the transmission system owned by the STU/TANGEDCO will lie with the RWEg's and shall be at the cost of RWEg. The RWEg's shall not be entitled to any deemed generation in case of any delay in connectivity to the Project whatsoever the reason may be.*
- d) *The STU/TANGEDCO shall endeavour to match the commissioning of the transmission system with the commissioning of the Repowering of WEG's projects.*

GENERATION:

- A. *The PPA tariff up to 2009 is either Rs.2.75 or Rs.2.90 per unit and so adopting Feed in Tariff (FIT) of Rs. 2.80 per unit for all the generation after repowering or the latest tender discovered rate at the time of commissioning of repowered WEG whichever is less, is to be adopted by TANGEDCO.*
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4. Micrositing:


For erection of repowered wind turbines, spacing criteria had been relaxed, as per the TANGEDCO Proceedings (Per) (CMD) No. 469, dt:09.11.2018.

6. Financial Outlay:

The repowering projects may avail Accelerated Depreciation benefit as per the conditions applicable to new wind power projects.

7. Review:

The Repowering Policy would be reviewed by the TANGEDCO as and when required.


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