## Nagaland Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff for Renewable Energy) Regulations, 2011

## **HIGHLIGHTS**

Tariff period	• 35 years – small hydro below 5 MW and mini/Micro hydro. • 25 years – solar PV, solar thermal and other small solar projects. • 20 years – biomass gasifier and biogas. • 13 years –other technologies.	
Control Period	• 3 years (first year upto end of FY 2014-15). • Till the next notification, this shall be continued.	
Useful Life of a Plant	• 35 years – mini/micro and small hydro. • 25 years – wind, solar PV (rooftop and small ground-mounted), solar thermal and other solar technologies. • 20 years – biomass power projects, non-fossil fuel based cogeneration.	
Technology-wise Tariff	<ul> <li>Project specific tariff, for generation of electricity from renewable energy sources on case-to-case basis, in accordance with relevant Regulations/Orders.</li> <li>The financial norms as specified under Tariff Regulations, except for capital cost and O&amp;M cost, shall be ceiling norms while determining the project specific tariff.</li> </ul>	

	Technology	Capital Cost (Rs. lakh/MW)
Capital Cost	Wind (FY 2010-11)	467
	Small hydro below 5 MW	635
	Small hydro (5 MW to 25 MW)	571
	Biomass based on Rankine cycle technology (with water cooled condenser)	403
	Non-fossil fuel cogeneration	398
	Solar PV	1690
	Solar thermal	1530
	Biomass gasifier	550
	All capital costs (in Rs. lakh/MW) are for first year of control period	d (FY 2010-11).
Operation and Maintenance Expenses (O&M)	Technology	Cost (Lakh Rs./ MW/Year )
	Wind	6.87
	Small hydro below 5 MW	22.20
	Small hydro (5 MW to 25 MW)	15.86
	Biomass based on Rankine cycle technology	21.41
	Non-fossil fuel based cogeneration	14.11
	Solar PV	9.00
	Solar thermal	13.00
	First year of control period (FY 2010-11), and escalated @ 5.72% per annum over the tariff period.	
Interest Rate on Loans	<ul> <li>Loan repayment period – 10 years. No moratorium considered.</li> <li>Long-term prime lending rate (LTPLR) of State Bank of India (SBI) prevalent during the previous year plus 150 basis points.</li> </ul>	
Depreciation	<ul> <li>Maximum- 90%. Salvage value -10%.</li> <li>Salvage value of the asset shall be considered as 10%, and depression of 90% of the capital cost of the asset.</li> <li>7% p.a. for first 10 years for project, balance shall be spread over project from 11th year onwards.</li> </ul>	-

Re	eturn on Equity	<ul> <li>Value base of equity: 30% of capital cost or actual equity.</li> <li>Normative RoE: Pre-tax 19% p.a. for first 10 years, and 24% p.a. from 11th year onwards.</li> </ul>
In	terest on Working Capital	Average State Bank short-term PLR (SBAR) during the previous year plus 100 basis points.

## **OTHER PROVISIONS**

and Design	<ul> <li>Single part, levelised, project specific tariff, for generation of electricity from renewable energy sources on case-to-case basis, in accordance with relevant Regulations/Orders.</li> <li>The financial norms as specified under Tariff Regulations, except for capital cost and O&amp;M cost, shall be ceiling norms while determining the project specific tariff.</li> </ul>	
Merit Order Despatch Principle	<ul> <li>All renewable energy power plants, except biomass plants of 10MW and above and non-fossil fuel cogeneration plants, are treated as 'Must Run' power plants.</li> <li>Biomass plants with capacity above 10MW shall be subject to scheduling.</li> </ul>	
HINCANTIVAS NV	Any incentive or subsidy provided by the central or state government including accelerated depreciation benefit would be taken into consideration.	
Rebate	• 2% - for payment through letter of credit. • 1% - for payments not through letter of credit but within 1 month from the date of presentation of bills.	
Late payment surcharge	1.25% per month, for payment of bills beyond a period of 60 days from the date of billing.	
Links	http://www.nerc.org.in/index.php?option=com_content&view=category&layout=blog&id=41&Itemid=2	
II I	Nagaland Electricity Regulatory Commission (Terms and Conditions for Determination of Generation Tariff for Renewable Energy) Regulations, 2011 <a href="https://www.nerc.org.in/images/nercdoc/7.doc">www.nerc.org.in/images/nercdoc/7.doc</a>	