

Tamil Nadu Renewable Energy Orders - 2016

HIGHLIGHTS

Tariff Period	Technology	No. of years
	Wind and solar	25
	Biomass and bagasse based cogeneration	20
	MSW	20
Control Period	Technology	Period
	Wind	April1, 2016 to March31, 2018
	Solar PV and Thermal	1 year from 28.03.2017
	Biomass and bagasse based cogeneration	2 yeas
	MSW	April 1, 2017 to March 31, 2019
Useful Life of a Plant	Technology	No. of Years
	Wind and solar	25
	Biomass and bagasse based cogeneration	20
	MSW	20

Technology-wise Tariff	Technology	Tariff (Rs./kWh)
	Wind	3.70 (net)
	Solar PV	4.56 (net)
	Solar thermal	9.95 (net)
	Biomass (1st year)	6.07
	Biomass (2nd year)	6.30
	Bagasse based cogeneration (1st year)	5.58
	Bagasse based cogeneration (2nd year)	5.74
	MSW	6.06 (net)
Capital Cost	Technology	Capital Cost (in Rs. lakh/MW)
	Wind	620.00
	Solar PV	470.00
	Solar thermal	1160.00
	Biomass	550.00
	Bagasse based cogeneration	520.00
	MSW	1600.00

Operation and Maintenance (O&M) Expenses	Technology	O&M Expenses
	Wind	1.1% of machinery cost (85% of capital cost). 0.22% of civil works and land cost (15% of capital cost).
	Solar PV and thermal	1.4% of capital cost.
	Biomass	4.5% of plant and machinery cost (85% of capital cost). 0.9% of civil works and land cost (15% of capital cost).
	Bagasse based cogeneration	Rs.18.91 lakh/MW
	MSW	5.5% of plant and machinery cost (85% of capital cost). 0.9% of civil works and land cost (15% of capital cost).
Interest Rate on Loan	<ul style="list-style-type: none"> • 11% for solar power • 11% for MSW • 13% for other technologies 	
Depreciation	Technology	Depreciation
	Wind and solar	3.6% for wind and 3.6% on 95% of capital cost for solar
	Biomass and bagasse	4.5% of capital cost
	MSW	4.5% on 85% of the capital cost
Return on Equity	Pre-tax 20% per annum.	
Interest on Working Capital	<ul style="list-style-type: none"> • 11.5% for MSW and solar • 13.5% for other technologies 	

OTHER PROVISIONS

Tariff structure and design	Technology	Tariff Structure
	Wind and solar	Single part, levellised tariff
	Biomass and bagasse	Two part tariff
	MSW	Single part, levellised tariff
Merit Order Despatch Principle	MSW plants exempted from Merit Order Dispatch Not available for other technologies	
Subsidy or/and incentives by government	Not available	
Rebate	Technology	Rebate
	Biomass	1% for payment within 1 month of presentation of bills.
	Bagasse based cogeneration	
Late payment interest	Technology	Interest
	Biomass	1% per month for payment beyond 60 days of presentation of bills.
	Bagasse based cogeneration	
	MSW	Not mentioned
Links	http://www.tnerc.gov.in/	
References	http://www.tnerc.gov.in/	