

# JERC Generic Tariff for Solar PV, Wind and Small Hydro Power Plants for FY 2019-20

## HIGHLIGHTS

Tariff Period	Technology	No. of Years
	Wind, Solar PV (gross metering)	25
	Small hydro	35

**Tariff (Rs./kWh)**

**Generic Tariff for Solar Power Projects**

<b>Union Territory</b>	<b>Levelised Cost</b>	<b>Accelerated Depreciation</b>	<b>Net Tariff</b>
Goa	4.98	0.37	4.61
Chandigarh	5.27	0.39	4.88
D&N Haveli	4.98	0.37	4.61
Daman	4.98	0.37	4.61
Puducherry	4.98	0.37	4.61
Diu	4.98	0.37	4.61
Lakshadweep	7.16	0.53	6.63
A&N islands	7.16	0.53	6.63

**Generic Tariff for Wind power project**

<b>Union Territory</b>	<b>Levelised Cost</b>	<b>Accelerated Depreciation</b>	<b>Net Tariff</b>
Goa	5.22	0.40	4.82
Chandigarh	5.22	0.40	4.82
D&N Haveli	5.22	0.40	4.82
Daman	4.95	0.38	4.57
Puducherry	4.48	0.34	4.14
Diu	3.62	0.28	3.34
A&N islands	7.04	0.53	6.51
Lakshadweep	7.10	0.54	6.56

**Generic Tariff for Small Hydro Power Plants**

<b>Mainland SHP</b>	<b>Levelised Tariff</b>	<b>Accelerated Depreciation</b>	<b>Net Tariff</b>
Lower than or equal to 5 MW	4.77	0.32	4.45
Above 5 MW and lower than or equal to 25 MW	4.33	0.29	4.04

<b>Island SHP</b>	<b>Levelised Tariff</b>	<b>Accelerated Depreciation</b>	<b>Net Tariff</b>
Lower than or equal to 5 MW	7.29	0.50	6.79
Above 5 MW and lower than or equal to 25 MW	6.25	0.43	5.82

<b>Capital Cost</b>		
	<b>Technology</b>	<b>Capital Cost (in Rs.Crore/MW)</b>
	Wind	<ul style="list-style-type: none"> <li>• Mainland area: 5.25</li> <li>• Andaman &amp; Nicobar: 6.25</li> <li>• Lakshadweep: 7</li> </ul>
	Small hydro below 5 MW	<ul style="list-style-type: none"> <li>• Mainland: 7.79</li> <li>• Island: 10.50</li> </ul>
	Small hydro above 5 MW and up to 25 MW	<ul style="list-style-type: none"> <li>• Mainland: 7.07</li> <li>• Island: 9</li> </ul>
	Solar PV	<ul style="list-style-type: none"> <li>• Mainland: 5 (without subsidy)</li> <li>• Island: 6 (without subsidy)</li> </ul>

Capacity Utilization Factor	Technology	CUF		
		Territory	CUF	
Wind		Goa	18%	
		Andaman & Nicobar	18%	
		Puducherry	21%	
		Lakshadweep	20%	
		Daman	19%	
		Chandigarh	18%	
		Dadra & Nagar Haveli	18%	
		Diu	26%	
	Small hydro	30%		
	Solar PV		Territory	CUF
			Goa	18%
			Andaman & Nicobar	17%
			Puducherry	18%
			Lakshadweep	17%
			Daman	18%
			Chandigarh	17%
			Dadra & Nagar Haveli	18%
			Diu	18%
	Auxiliary Consumption	Technology	Auxiliary Consumption	
Wind		0.25%		
Small hydro		1%		
Solar PV		0.25%*		
*The JERC may deviate from the norms in case of project-specific tariff determination.				

<b>Operation and Maintenance (O&amp;M) Expenses</b>	<b>Technology</b>	<b>O&amp;M Cost (Rs.Lakh/MW)</b>
	Wind	<ul style="list-style-type: none"> <li>• Mainland: 7.88</li> <li>• Andaman &amp; Nicobar: 12.50</li> <li>• Lakshadweep: 14</li> </ul>
	Small hydro ≤ 5MW	<ul style="list-style-type: none"> <li>• Mainland: 15.58</li> <li>• Island: 26.25</li> </ul>
	Small hydro above 5 MW and less than or equal to 25 MW	<ul style="list-style-type: none"> <li>• Mainland: 14.14</li> <li>• Island: 22.50</li> </ul>
	Solar PV	<ul style="list-style-type: none"> <li>• Mainland: 7.50</li> <li>• Island: 12</li> </ul>
	O&M cost is escalated at 3.72% per annum over the tariff period.	
<b>Interest Rate on Loans</b>	<ul style="list-style-type: none"> <li>• Mainland : 10.51%</li> <li>• Island : 11.51%</li> </ul>	
<b>Depreciation</b>	5.83% for the first 12 years and 1.54% for the remaining 13 years of the plant.	
<b>Return on Equity</b>	<ul style="list-style-type: none"> <li>• Mainland : 14%</li> <li>• Island: 16%</li> </ul> <p>To be grossed up by prevailing minimum alternate tax as on 1 April of the available year at the time of determination of tariff for the entire useful life of the project.</p>	
<b>Interest on Working Capital</b>	<ul style="list-style-type: none"> <li>• Mainland: 11.51%</li> <li>• Island: 12.51%</li> </ul>	

## OTHER PROVISIONS

Tariff Structure and Design	<ul style="list-style-type: none"> <li>• Generic or project-specific. <ul style="list-style-type: none"> <li>- Single part tariff for technologies not using fuel.</li> <li>- Single part with fixed cost and fuel cost component for technologies using fuel.</li> <li>- Levelisation is calculated on the useful life of the renewable energy project.</li> </ul> </li> </ul>
Despatch Principles	All renewable energy power plants shall be treated as 'MUST RUN' power plants and will not be subjected to merit order despatch.

Subsidy or/and Incentives by Government	Any incentive or subsidy provided by the central or state government including accelerated depreciation benefit would be taken into consideration for determination of tariff.
Taxes and Duties	As pass-through, on actual incurred basis.
Rebate	<ul style="list-style-type: none"> <li>• 2% - for payment through Letter of Credit.</li> <li>• 1% - for payments not through Letter of Credit but within 1 month from the date of presentation of bills.</li> </ul>
Late Payment Surcharge	1.25% per month for payment of bills beyond a period of 60 days from the date of billing.
Links	<a href="http://jercuts.gov.in/">http://jercuts.gov.in/</a>
References	<a href="http://jercuts.gov.in/writereaddata/UploadFile/finalfile636933434438348145.pdf">http://jercuts.gov.in/writereaddata/UploadFile/finalfile636933434438348145.pdf</a> GENERIC TARIFF ORDER FOR RENEWABLE ENERGY SOURCES 2 Sept 2019 <a href="http://jercuts.gov.in/writereaddata/UploadFile/finalgenericorder637031248973941416.pdf">http://jercuts.gov.in/writereaddata/UploadFile/finalgenericorder637031248973941416.pdf</a>