

## HARYANA ELECTRICITY REGULATORY COMMISSION

### Determination of levellised generic tariff for renewable energy projects to be commissioned during FY2013-14 under regulation 7 of the Haryana Electricity Regulatory Commission (Terms and Conditions for Tariff Determination from Renewable Energy Sources) Regulations - 2010

**HERC/PRO -15 of 2013 (Suo - Motu) DATE OF ORDER: 20-11-2013**

Sl. No	Description	Summary																																																																																																													
1.	<b>Title</b>	Determination of levellised generic tariff for Renewable energy projects to be commissioned during FY 2013-14 under Regulation 7 of the Haryana Electricity Regulatory Commission (Terms and Conditions for Tariff Determination from Renewable Energy Sources) Regulations, 2010.																																																																																																													
2.	<b>Tariff Approved by the Commission</b>	<p>The tariff approved by the Commission is as given below which shall be applicable for the projects commissioned in FY 2013-14.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th colspan="13" style="text-align: center;">Generic Tariff for Renewable Energy Based Power Projects to be Commissioned in FY 2013-14</th> </tr> <tr> <th style="width: 10%;">Particulars</th> <th style="width: 5%;">Wind 200-250 W/m<sup>2</sup></th> <th style="width: 5%;">Wind 250-300 W/m<sup>2</sup></th> <th style="width: 5%;">Wind 300-400 W/m<sup>2</sup></th> <th style="width: 5%;">Wind &gt;400 W/m<sup>2</sup></th> <th style="width: 5%;">Bioma ss (water cooled )</th> <th style="width: 5%;">Bioma ss (air cooled )</th> <th style="width: 5%;">Cogen. 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(Bagass e)	Solar PV Crystalli ne	Solar PV Thin Film	Solar Therm al	Solar Roofto p	Capacity of the power plant (MW)	1	1	1	1	1	1	1	1	1	1	1	Life of the power plant (Years)	25	25	25	25	20	20	20	25	25	25	25	Project Cost ( Rs Million / MW)	53.54	53.54	53.54	53.54	46.778	49.38	46.258	60.50	56.9	120.00	56.4	Residual value (10%)	5.35	5.35	5.35	5.35	4.68	4.94	4.63	6.05	5.69	12	5.64	Total depreciatio n	48.18	48.18	48.18	48.18	42.10	44.44	41.63	54.45	51.21	108	50.76	Loan component	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	Equity component	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
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		CUF (stabilization)	20%	25%	30%	32%	60%	60%	53%	19%	19%	23%	19%
		CUF 1st year	20%	25%	30%	32%	70%	70%	53%	19%	19%	23%	19%
		CUF 2 <sup>nd</sup> year onwards	20%	25%	30%	32%	80%	80%	53%	19%	19%	23%	19%
		O&M (Rs Million / MW)	0.77	0.77	0.77	0.77	2.39	2.39	1.58	0.11	0.1063	1.54	0.1063
		O&M escalation (2 <sup>nd</sup> year onwards)	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%
		Depreciation (1 <sup>st</sup> 10 years)	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
		ROE (1 <sup>st</sup> 10 years)	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%
		ROE (11 <sup>th</sup> year onwards)	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%	24%
		Income tax / (MAT)	0	0	0	0	0	0	0	0	0	0	0
		Interest on term loan	13.75 %	13.75 %	13.75 %	13.75 %	13.75 %	13.55 %	13.75%	13.75%	13.75 %	13.75 %	13.75 %
		Interest on working capital	14.00 %	14.00 %	14.00 %	14.00 %	14.00 %	14.50 %	14.00%	14.00%	14.00 %	14.00 %	14.00 %
		Auxiliary consumption	0%	0%	0%	0%	10%	10%	8.5%	0%	0%	10%	0%
		Fuel cost (Rs / MT)	0.00	0.00	0.00	0.00	2789	2789	695	0.00	0.00	0.00	0.00
		Fuel price escalation	0.00	0.00	0.00	0.00	5%	5%	5%	0.00	0.00	0.00	0.00
		Heat rate	0.00	0.00	0.00	0.00	3800	3800	3600	0.00	0.00	0.00	0.00

		GCV	0.00	0.00	0.00	0.00	3458	3458	2250	0.00	0.00	0.00	0.00
		Tariff FY 2013-14	7.08	5.66	4.72	4.42	5.98	6.23	4.05	7.94	7.47	15.22	7.40
		Tariff FY 2014-15	6.81	5.44	4.54	4.25	5.83	5.88	4.03	7.58	7.14	14.62	7.07
		Tariff FY 2015-16	6.53	5.23	4.35	4.08	5.97	6.03	4.02	7.23	6.80	14.03	6.74
		<b>Levelli-sed tariff at 10.95% Discount Rate</b>	<b>5.44</b>	<b>4.35</b>	<b>3.62</b>	<b>3.40</b>	<b>6.97</b>	<b>7.05</b>	<b>4.15</b>	<b>5.70</b>	<b>5.36</b>	<b>11.60</b>	<b>5.32</b>