## HARYANA ELECTRICITY REGULATORY COMMISSION

Determination of levellised generic tariff for renewable energy projects t 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

SI. No	Description	Summary											
1.	Title	Determination of levellised generic tariff for renewable energy projects to be commissioned during F 2013-14 under regulation 7 of the Haryana Electricity Regulatory Commission (Terms and Condition for Tariff Determination from Renewable Energy Sources) Regulations, 2010.											
2.	Tariff approved	The tariff approved by the Commission is as given below which shall be applicable for the projects commissioned in FY 2013-14.											
	by the	Commission											
	Commission									nissioned in		r	1
		Particulars	Wind (200- 250 W/ m <sup>2</sup>	Wind (250- 300 W/ m <sup>2</sup>	Wind 300- 400 W/ m <sup>2</sup>	Wind >400 W/ m <sup>2</sup>	Biomass (water cooled)	Biomass (air cooled)	Cogen. (Bagasse)	Solar PV Crystalline	Solar PV Thin Film	Solar Thermal	Solar Rooftop
		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 depreciation	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%
		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 2nd 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 (2nd 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 (1st 10 years)	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%
		ROE (1st 10 years)	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%
		ROE (11th 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 term loan	13.75%	13.75%	13.75%	13.75%	13.75%	13.55%	13.75%	13.75%	13.75%	13.75%	13.7
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	0.0
Fuel price escalation	0.00	0.00	0.00	0.00	5%	5%	5%	0.00	0.00	0.00	0.0
Heat rate	0.00	0.00	0.00	0.00	3800	3800	3600	0.00	0.00	0.00	0.0
GCV	0.00	0.00	0.00	0.00	3458	3458	2250	0.00	0.00	0.00	0.0
Tariff FY 2013-14	7.08	5.66	4.72	4.42	5.98	6.23	4.05	7.94	7.47	15.22	7.4
Tariff FY 2014-15	6.81	5.44	4.54	4.25	5.83	5.88	4.03	7.58	7.14	14.62	7.0
Tariff FY 2015-16	6.53	5.23	4.35	4.08	5.97	6.03	4.02	7.23	6.80	14.03	6.7
Levelli-sed tariff at 10.95% Disco-unt Rate	5.44	4.35	3.62	3.40	6.97	7.05	4.15	5.70	5.36	11.60	5.3