

Assumption Parameters for SHP Category- II (Above 2 MW to 5 MW)

Sr. No	Assumption Head	Sub Head	Sub Head(2)	Unit	Value
1	Power Generation	Capacity	Installed Generation Capacity	MW	1
			Capacity Utilisation Factor	%	55
			Auxiliary Consumption	%	0.5
			Transformation Losses	%	0.5
			Transmission losses	%	0.7
			Useful Life	%	40
		Free Energy Structure	For First 12 Years For remaining 28 Years	% %	7 13
2	Project Cost	Capital Cost /MW	Project Cost	Rs. Lacs/MW	750
3	Project Financing	Debt Equity	Tariff Period	Year	40
			Debt	%	70
		Debt Component	Equity	%	30
			Loan Amount	Rs. Lacs/MW	525
			Moratorium Period	Year	0
			Repyment Period	Year	12
		Equity Component	Interst Rate	%	12.875
			Equity Amount	Rs. Lacs/MW	225
			Return of equity for first 10 Years	%	19
			Return of equity from 11th Years onwards	%	22
4	Subsidy	Subsidy	MNRE Capital Subsidy for 2 MW	Rs. Lacs/MW	115
			90% Capital Subsidy adjusted	Rs. Lacs/MW (at 2 MW Capacity)	103.5
5	Depreciation	Depreciation	Recovery of Depreciation	%	90
			Annual Rate of Depreciation till completion of Loan Repayment (balance spread in remaining years)	%	5.83
6	Operation & Maintenance		Total O&M Expenses	Rs. Lacs/MW	22
			Annual Escalation	%	5.72
7	Working Capital		O&M Charges	Months	1
			Maintenance Spares	% of O&M expenses of a Year	15
			Recievables	Months	2
			Interest on Working capital	%	13.375
8	Accelerated Depreciation	Accelerated Depreciation	Book Depreciation	%	5.28
			Tax Depreciation	%	80
			Additional Depreciation	%	20
			Corporate Tax including Surcharge & Cess	%	32.445
9	Discount Factor		Discount Rate	%	10.58

GENERIC LEVELLISED TARIFF OF CATEGORY -II (Above 2MW to 5 MW)

DETERMINATION OF TARIFF COMPONENT	UNIT	YEAR→	Y 01	Y 02	Y 03	Y 04	Y 05	Y 06	Y 07	Y 08	Y 09	Y 10	Y 11	Y 12	Y 13	Y 14	Y 15	Y 16	Y 17	Y 18
Gross Generation (MU)	(MU)		4.82	4.82	4.82	4.83	4.82	4.82	4.82	4.83	4.82	4.82	4.82	4.83	4.82	4.82	4.82	4.83	4.82	4.82
Auxiliary Consumption @ 1 % (.5% +.5%)	(MU)		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Net Generation (MU)	(MU)		4.77	4.77	4.77	4.78	4.77	4.77	4.77	4.78	4.77	4.77	4.77	4.78	4.77	4.77	4.77	4.78	4.77	4.77
Project Line Losses @ 0.7% (MU)	(MU)		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Saleable Energy (MU)	(MU)		4.74	4.74	4.74	4.75	4.74	4.74	4.74	4.75	4.74	4.74	4.74	4.75	4.74	4.74	4.74	4.75	4.74	4.74
Free Power	%		7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	7%	13%	13%	13%	13%	13%	13%
Net Saleable Energy (Levellised/ Annual)	(MU)	4.326	4.40	4.40	4.40	4.42	4.40	4.40	4.40	4.42	4.40	4.40	4.40	4.42	4.12	4.12	4.12	4.13	4.12	4.12
Fixed Cost																				
RoE	Rs Lacs.		42.75	42.75	42.75	42.75	42.75	42.75	42.75	42.75	42.75	42.75	49.50	49.50	49.50	49.50	49.50	49.50	49.50	49.50
Depreciation	Rs Lacs.		43.73	43.73	43.73	43.73	43.73	43.73	43.73	43.75	43.75	27.75	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46
O&M	Rs Lacs.		22.00	23.26	24.59	26.00	27.48	29.05	30.72	32.47	34.33	36.29	38.37	40.56	42.89	45.34	47.93	50.67	53.57	56.64
WC Interest	Rs Lacs.		4.42	4.21	4.16	4.11	4.06	4.02	3.99	3.96	3.93	3.58	3.37	3.49	3.62	3.75	3.89	4.04	4.20	4.36
Interest on long Term loans	Rs Lacs.		58.11	45.82	40.19	34.55	28.92	23.29	17.65	12.02	6.39	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	Rs Lacs.		171.00	159.76	155.41	151.13	146.94	142.84	138.83	134.95	131.15	112.16	99.70	102.01	104.46	107.04	109.78	112.67	115.72	118.95
Generic Rate	Rs./ kWh		3.88	3.63	3.53	3.42	3.34	3.24	3.15	3.06	2.98	2.55	2.26	2.31	2.53	2.60	2.66	2.73	2.81	2.89
Levellised Tariff Corresponding to Tariff Period																				
Per Unit Cost of Generation																				
RoE	Rs./ kWh		1.046	0.97	0.88	0.79	0.72	0.65	0.59	0.53	0.48	0.43	0.39	0.41	0.37	0.36	0.32	0.29	0.27	0.24
Depreciation	Rs./ kWh		0.698	0.99	0.90	0.81	0.73	0.66	0.60	0.54	0.49	0.44	0.25	0.07	0.06	0.06	0.06	0.05	0.05	0.04
O&M	Rs./ kWh		0.955	0.50	0.48	0.46	0.44	0.42	0.40	0.38	0.36	0.35	0.33	0.32	0.30	0.31	0.30	0.28	0.27	0.26
WC Interest	Rs./ kWh		0.101	0.10	0.09	0.08	0.07	0.06	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02
Interest on long Term loans	Rs./ kWh		0.466	1.32	0.94	0.75	0.58	0.44	0.32	0.22	0.13	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Cost of Generation	Rs./ kWh		3.266	3.88	3.28	2.89	2.53	2.23	1.96	1.72	1.51	1.33	1.03	0.83	0.76	0.70	0.65	0.60	0.56	0.52
Disc factor		10.58%		1.00	0.90	0.82	0.74	0.67	0.60	0.55	0.49	0.45	0.40	0.37	0.33	0.30	0.27	0.24	0.22	0.20
Discounted Rate	Rs./ kWh		3.266	3.88	3.28	2.89	2.53	2.23	1.96	1.72	1.51	1.33	1.03	0.83	0.76	0.70	0.65	0.60	0.56	0.52
Generic Levellised Tariff without Accelerated Depreciation	Rs./ kWh	3.266																		
Accelerated Depreciation benefit (Levellised) as per sheet IV of Appendix B	Rs./ kWh	0.290																		
Generic Levellised Tariff considering Accelerated benefit	Rs./ kWh	2.977																		

1. Generic Levellised Tariff without Accelerated Depreciation = Rs. 3.27 /kWh
2. Generic Levellised Tariff with Accelerated Depreciation = Rs. 2.98 /kWh

NOTES:

1. The associated terms and conditions have been given in sheet -VI of Appendix -A
2. For Illustrations please refer Sheet -VII of Appendix -A
3. These calculations have been carried out on the basis of per MW of installed capacity

