

**Form 1.1 Form Template for (Solar PV Power Projects) Parameters Assumptions**

S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Assumptions			
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1			
			Capacity Utilization Factor	%	19.0%			
			Deration Factor	%	0.0%			
			Useful Life	Years	25			
2	Project Cost	Capital Cost/MW	Power Plant Cost	Rs Lacs/MW	1700			
3	Financial Assumptions		Tariff Period	Years	25			
			Debt: Equity	Debt	%	70%		
				Equity	%	30%		
			Debt Component	Total Debt Amount	Rs Lacs	1190		
				Total Equity Amout	Rs Lacs	510		
			Equity Component	Loan Amount	Rs Lacs	1190		
				Moratorium Period	years	0		
				Repayment Period(incld Moratorium)	years	10		
				Interest Rate	%	14.29%		
						Equity amount	Rs Lacs	510
						Return on Equity for first 10 years	% p.a	19.00%
						RoE Period	Year	10
						Return on Equity 11th year onwards	% p.a	24.00%
Weighted average of ROE		22.00%						
			Discount Rate		16.60%			
4	Financial Assumptions	Fiscal Assumptions	Income Tax	%	33.99%			
			MAT Rate (for first 10 years)	%	16.995%			
			80 IA benefits	Yes/No	Yes			
			Depreciation	Depreciation Rate for first 10 years	%	7.00%		
Depreciation Rate 11th year onwards	%	1.33%						
Years for 7% rate		10						
5	Working Capital		For Fixed Charges					
			O&M Charges	Months	1			
			Maintenance Spare	(% of O&M exepenses)	15%			
			Receivables for Debtors	Months	2			
			For Variable Charges					
			Interest On Working Capital	%	13.79%			
7	Operation & Maintenance		power plant	Rs Lakh	9			
			Total O & M Expenses Escalation	%	5.72%			



10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
14.85	15.70	16.59	17.54	18.55	19.61	20.73	21.92	23.17	24.49	25.90	27.38	28.94	30.60	32.35	34.20
119.00	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67
8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.12	4.30	4.35	4.40	4.46	4.52	4.58	4.65	4.72	4.80	4.87	4.96	5.05	5.14	5.24	5.34
96.90	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40	122.40
245.37	165.06	166.01	167.01	168.07	169.19	170.38	171.63	172.96	174.36	175.84	177.40	179.06	180.81	182.65	184.61

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
0.89	0.94	1.00	1.05	1.11	1.18	1.25	1.32	1.39	1.47	1.56	1.64	1.74	1.84	1.94	2.05
7.15	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36
0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.37	0.26	0.26	0.26	0.27	0.27	0.28	0.28	0.28	0.29	0.29	0.30	0.30	0.31	0.31	0.32
5.82	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35	7.35
14.74	9.92	9.97	10.03	10.10	10.17	10.24	10.31	10.39	10.48	10.56	10.66	10.76	10.86	10.97	11.09

0.251	0.215	0.185	0.158	0.136	0.116	0.100	0.086	0.073	0.063	0.054	0.046	0.040	0.034	0.029	0.025
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**Determination of Accelerated Depreciation Benefit for Solar PV Power Projects**

Depreciation amount	90%
Book Depreciation rate	5.28%
Tax Depreciation rate	80%
Income Tax (MAT)	16.995%
Income Tax (Normal Rates)	33.99%
Capital Cost	1700.0

Years	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Book Depreciation	%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	5.28%	0.24%	0.00%	0.00%
Book Depreciation	Rs Lakh	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	89.76	4.08	0.00	0.00

Accelerated Depreciation																							
Opening	%	100%	60%	12%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Allowed during the year	%	40%	48.00%	9.60%	1.92%	0.38%	0.08%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Closing	%	60%	12%	2.40%	0.48%	0.10%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Accelerated Deprn.	Rs Lakh	680.00	816.00	163.20	32.64	6.53	1.31	0.26	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Net Depreciation Benefit	Rs Lakh	590.24	726.24	73.44	-57.12	-83.23	-88.45	-89.50	-89.71	-89.75	-89.76	-89.76	-89.76	-89.76	-89.76	-89.76	-89.76	-89.76	-89.76	-4.08	0.00	0.00	
Tax Benefit	Rs Lakh	100.31	123.42	12.48	-9.71	-14.15	-15.03	-15.21	-15.25	-15.25	-15.25	-30.51	-30.51	-30.51	-30.51	-30.51	-30.51	-30.51	-30.51	-1.39	0.00	0.00	
Energy generation	MU	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	
Per unit benefit	Rs/Unit	6.03	7.42	0.75	-0.58	-0.85	-0.90	-0.91	-0.92	-0.92	-0.92	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-1.83	-0.08	0.00	0.00	
Discounting Factor		1.00	0.86	0.74	0.63	0.54	0.46	0.40	0.34	0.29	0.25	0.22	0.18	0.16	0.14	0.12	0.10	0.09	0.07	0.06	0.05	0.05	

<b>Levelled benefit</b>	<b>1.30</b>	<b>Rs/Unit</b>
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