



JOINT ELECTRICITY REGULATORY COMMISSION

(For the State of Goa and Union Territories)

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PUBLIC NOTICE

Joint Electricity Regulatory Commission (for the State of Goa & Union Territories) invites suggestions/comments/inputs/objections from Public/Stakeholders on the “**Consultation paper on Determination of the Generic Levelised Tariff for the Renewable Energy Technologies as specified under Regulation 8 of the JERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2024**”. The Consultation Paper has been uploaded on the Commission’s website www.jercuts.gov.in and can be downloaded for perusal.

The comments/suggestions on the above stated regulation may be forwarded to the Commission by post or by email addressed to the Secretary, Joint Electricity Regulatory Commission (for the State of Goa & Union Territories), 3rd & 4th Floor, Plot No. 55-56, Udyog Vihar, Phase- IV, Sector 18, Gurugram, Haryana 122015 (email: secy.jercuts@gov.in) latest by **14th February, 2025**.

Sd/-
(S.D. Sharma)
Secretary, (I/c), JERC



JOINT ELECTRICITY REGULATORY COMMISSION
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3rd & 4th Floor, Plot No. 55- 56,
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Consultation Paper

on

Determination of the Generic Levelised Tariff for the Renewable Energy Technologies as specified under Regulation 8 of the JERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2024

January, 2025

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List of Abbreviations

Abbreviation	Full Form
CUF	Capacity Utilization Factor
COD	Commercial Operation Date
FY	Financial Year
GCV	Gross Calorific Value
JERC	Joint Electricity Regulatory Commission for the State of Goa & Union Territories
kWh	kilowatt hour
MAT	Minimum Alternate Tax
MCLR	Marginal Cost of Lending Rate
MSW	Municipal Solid Waste
MT	Metric Tonne
MW	Megawatt
O&M	Operation & Maintenance
PLF	Plant Load Factor
RDF	Refuse Derived Fuel
RE	Renewable Energy
RoE	Return on Equity
SHP	Small Hydro Projects
SFC	Specific Fuel Consumption
WC	Working Capital
WACC	Weighted Average Cost of Capital

1 BACKGROUND

The Commission notified the Joint Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2024 on 29.11.2024 after prior publication seeking comments/objections/suggestions from the public/stakeholders on the same and duly considering such comments wherein general financial principles and technology specific parameters for various renewable energy technologies viz., Small hydro-based projects; Biomass power project with Rankine cycle technology; Non-fossil fuel-based co-generation project; Biomass gasifier-based power project; Biogas-based power project; and Refuse Derived Fuel based Municipal Solid Waste power projects have been specified (hereinafter referred to as “Renewable Energy Tariff Regulations, 2024” or “RE Tariff Regulations, 2024”).

Regulation 10.1 of the RE Tariff Regulations, 2024 provides that the Commission shall determine the generic tariff prior to the commencement of the year for each year of the Control Period and associated terms and conditions for each renewable energy project from the date of commencement of the said Regulations by taking into account the norms specified thereunder.

The Commission, in due discharge of the mandate under aforesaid RE Tariff Regulations, 2024, proposes to determine the generic levelised tariff of the aforementioned renewable energy technologies for the entire useful life of the technology-specific parameters to be commissioned during the control period of FY 2024-25 to FY 2026-27 as enclosed as “Annexure-A”.

The comments/suggestions/objections of the public/stakeholders on the above proposal are invited within 15 days from the date of notification. The Commission may finalise the said tariff after considering the comments and suggestions, as may be relevant to the proposal, received by it on or before the said date. The comments received after the above-mentioned date shall not be considered.

2 FINANCIAL PRINCIPLES OF JERC RENEWABLE ENERGY TARIFF REGULATIONS, 2024

The JERC Renewable Energy Tariff Regulations, 2024 specifies the following financial principles:

2.1 Debt Equity Ratio

As per Regulation 15 of Renewable Energy Tariff Regulations, 2024, the Debt Equity ratio shall be as under, for tariff determination

“15.1 Debt Equity ratio of 70:30 shall be considered”

2.2 Loan and Finance Charges

Regulation 16.1 of the Renewable Energy Tariff Regulations, 2024 specifies loan tenure of 15 years for the determination of the Generic Tariff for RE Projects. Regulation 16.2 provides for consideration of the rate of interest on loan as follows:

- **Mainland:** SBI MCLR (One-year tenor) prevailing during the last available six months (i.e., from 15.03.2024 to 15.09.2024) + 200 basis points, which works out to $8.75\% + 2\% = 10.75\%$
- **Island:** SBI MCLR (One-year tenor) prevailing during the last available six months (i.e., from 15.03.2024 to 15.09.2024) + 300 basis points, which works out to $8.75\% + 3\% = 11.75\%$

2.3 Depreciation

Regarding Depreciation Regulation 17.3 specifies as follows:

“Depreciation rate of 4.67% per annum shall be considered for first 15 years and remaining depreciation shall be spread during remaining useful life of the RE projects considering the salvage value of the project as 10% of project cost.”

2.4 Return on Equity

Regarding Return on Equity Regulation 18.2 & 18.3 specifies as follows:

15.1 The normative Return on Equity shall be:

- 14% for Renewable Energy Projects in Mainland areas (except small hydro projects);
- 15% for small hydro projects in Mainland area;
- 16% for Renewable Energy Projects in Island areas (except small hydro projects);
- 17% for small hydro projects in Island area;

15.2 The normative Return on Equity shall be grossed up by latest notified Minimum Alternate Tax (MAT) rate for the first 20 years of the Tariff Period and by the

latest available notified Corporate Tax rate for the remaining Tariff Period.

The Effective Income Tax rate and MAT rate as on 1st April of 2024 are 34.94% and 17.47%, respectively as shown in the Table below:

Table 1: Computation of Income Tax and MAT Rate

Details	Formula	Income Tax Rate	MAT Rate
Corporate Tax	A	30.00%	15.00%
Surcharge	B	12.00%	12.00%
Corporate Tax + Surcharge	C=A+B*A	33.60%	16.80%
Health & Education Cess	D	4.00%	4.00%
Total Tax Rate	E=C+D*C	34.94%	17.47%

2.5 Normative Rate of Interest on Working Capital

Regarding the Normative Rate of Interest on Working Capital, Regulation 19.4 specifies as follows:

“19.4 Normative Rate of Interest on Working Capital shall be considered as follows:

Table 2: Normative Working Capital Interest Rate

Particulars	Interest Rates
Mainland	State Bank of India MCLR (One-Year Tenor) prevalent during the last available six months + 325 basis points
Island	State Bank of India MCLR (One-Year Tenor) prevalent during the last available six months + 425 basis points

”

Accordingly, the Commission has considered the normative rate of Interest on Working Capital considering the MCLR as 8.75%, as follows:

- Mainland Areas- 8.75% + 3.25% = 12.00%
- Island Areas- 8.75% + 4.25% = 13.00%

2.6 Discount Factor

The discount factor has been considered equal to the normative post-tax weighted average cost of capital based on the normative debt-equity ratio of 70:30 specified in the Regulations, and the weighted average rates for the debt and equity components. The discount factor considered for mainland and island areas for Small Hydro Projects (SHP) and other RE technologies are as under:

Table 3: Discount Factor for SHP and Other RE Technologies

Discount Factor	Mainland	Island
For SHP	9.40%	10.45%
For Other RE Technologies	9.10%	10.15%

2.7 Escalation Rate for O&M Expenses

Regulation 21.3 of Renewable Energy Tariff Regulations, 2019 specifies the escalation rate for O&M Expenses as follows:

“21.3 Normative O&M expenses allowed during first year of the Control Period (i.e. FY 2024-25) under these Regulations shall be escalated at the rate of 5.25% per annum for the tariff period.”

2.8 Accelerated Depreciation

The generic levelled tariff as determined in the subsequent sections of the consultation paper is exclusive of the Advance Against Depreciation (AAD) benefit.

2.9 Applicability of Generic Levelised Tariff

The generic levelled tariff as determined for each year of the control period i.e., FY 2024-25, FY 2025-26, and FY 2026-27 shall be applicable for the Renewable Energy Projects commissioned in FY 2024-25, FY 2025-26 and FY 2026-27 respectively for the entire useful life of the Project.

2.10 Summary of the Generic Levelised Tariff determined for RE Projects

S.No.	Type of Renewable Energy Project	Applicable Generic Levelised Tariff (Rs./kWh)		
		FY 2024-25	FY 2025-26	FY 2026-27
1	SHP			
1.1	SHP-Mainland (Below 5 MW)	7.43	7.58	7.74
1.2	SHP-Mainland (5MW to 25MW)	7.31	7.42	7.54
1.3	SHP-Island (Below 5 MW)	10.20	10.39	10.58
1.4	SHP-Island (5MW to 25MW)	9.33	9.47	9.61
2	Biomass Rankine Cycle			
2.1	Mainland: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler	11.88	12.27	12.67
2.2	Mainland: Other than Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler	12.25	12.65	13.06
2.3	Mainland: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler	12.01	12.40	12.80
2.4	Mainland: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler	12.38	12.78	13.19
2.5	Mainland: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Atmospheric Fluidised Bed Combustion boiler	11.72	12.10	12.50
2.6	Other than Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using AFBC boiler	12.09	12.48	12.89

2.7	Mainland: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using AFBC boiler	11.84	12.23	12.63
2.8	Mainland: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using AFBC boiler	12.22	12.61	13.01
2.9	Island: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler	11.91	12.29	12.69
2.10	Island: Other than Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler	12.29	12.68	13.09
2.11	Island: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler	12.04	12.43	12.83
2.12	Island: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler	12.43	12.82	13.23
2.13	Island: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using AFBC boiler	11.74	12.12	12.52
2.14	Island: Other than Rice Straw and Juliflora (plantation) based project] with Air Cooled Condenser and using AFBC	12.12	12.51	12.91
2.15	Island: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using AFBC boiler	11.88	12.26	12.66
2.16	Island: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using AFBC boiler	12.26	12.65	13.05

3	Non-Fossil Fuel (Bagasse) based Cogeneration			
3.1	Mainland	9.65	9.94	10.24
3.2	Island	9.74	10.03	10.33
4	Non-Fossil Fuel (Other than Bagasse) based Cogeneration			
4.1	Mainland	10.56	10.89	11.22
4.2	Island	10.65	10.97	11.30
5	Biomass Gasifier-based Power Projects			
5.1	Mainland	11.54	11.92	12.32
5.2	Island	11.56	11.94	12.33
6	Biogas-based Power Projects			
6.1	Mainland	12.56	12.94	13.33
6.2	Island	12.71	13.08	13.47
7	Refused Derived Fuel-based Municipal Solid Waste Power Projects			
7.1	Mainland	10.22	10.48	10.75
7.2	Island	10.68	10.93	11.20

3 GENERIC TARIFF FOR SMALL HYDRO POWER PROJECTS

3.1 Mainland (below 5MW) - Assumptions and Parameters for Tariff Determination

Sl. No.	Assumption Head	Sub-head	Sub-head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation	MW	1
			Capacity	%	
			Capacity Utilization Factor(CUF)	%	30%
			Auxiliary Consumption	%	1%
			Commercial Operation Date (COD)	dd/mm/yyyy	
			Useful Life	Years	40
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakh/MW	890.00
			Capital Cost	Rs. Lakh	
				Rs. Lakh	890
			Capital Subsidy, if any	Rs. Lakh	0.00
3	Financial Assumption	Debt Equity	Net Capital Cost	Rs. Lakh	890.00
			Tariff Period	Years	40
			Debt	%	70%
		Debt Component	Equity	%	30%
			Total debt amount	Rs. Lakh	623
			Total equity amount	Rs. Lakh	267
			Loan Amount	Rs. Lakh	623
			Moratorium Period	Years	
			Repayment Period (incl moratorium) = loan tenure	Years	15
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	267.00
			RoE for 1 st 20 years	%p.a.	18.18%
			RoE after 20 years	%p.a.	23.06%
			Discount Rate	%	9.40%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep Rate 16 th year onwards	%	0.80%
		Incentives	GBI, if any	Rs. Lakh	
			Period for GBI	Years	

Sl. No.	Assumption Head	Sub-head	Sub-head (2)	Unit	Parameter
4	O&M Expenses	Normative O&M Expenses p.a.		Rs. Lakh/ MW	39.66
		O&M Expenses p.a.		Rs. Lakh	39.66
		Escalation Factor		%	5.25%
5	Working Capital	O&M Expenses		Month	1
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2
		Interest on WC		%	12.00%
6	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766

Mainland (below 5MW): Determination of Tariff Components for FY 2024-25																																										
Units Generation	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
Installed Capacity	MW	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Net Generation	MW	2.60	2.60	2.60	2.60	2.60	2.60	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50		
Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
ORM Expenses	Rs/Lakh	39.66	41.74	43.93	46.24	48.67	51.22	53.91	56.74	59.72	62.86	66.16	69.63	73.29	77.13	81.18	85.44	89.93	94.65	99.62	104.85	110.36	116.15	122.25	128.67	135.42	142.53	150.01	157.89	166.18	174.90	184.08	193.75	203.92	214.63	225.89	237.75	250.24	263.37	277.20	291.75	
Rs/Lakh		41.58	43.81	46.14	48.57	51.10	53.73	56.45	59.27	62.14	65.15	68.30	71.59	75.02	78.59	82.30	86.14	90.11	94.21	98.54	103.10	107.89	112.91	118.16	123.64	129.35	135.30	141.49	147.93	154.62	161.57	168.79	176.28	184.05	192.10	200.44	209.08	218.02	227.26	236.80		
Interest on Loan	Rs/Lakh	64.74	60.28	55.81	51.35	46.88	42.42	37.95	33.49	29.02	24.56	20.09	15.63	11.16	6.70	2.23	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Interest on working Capital	Rs/Lakh	5.10	5.11	5.12	5.13	5.15	5.18	5.22	5.25	5.30	5.36	5.42	5.49	5.57	5.66	5.75	5.86	5.97	6.02	6.27	6.81	7.09	7.39	7.70	8.03	8.38	8.75	9.14	9.54	9.97	10.42	10.89	11.39	11.91	12.47	13.05	13.66	14.30	14.98	15.77		
Return on Equity	Rs/Lakh	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53	48.53			
Total Fixed Cost	Rs/Lakh	199.57	197.20	194.94	192.86	190.79	188.92	187.18	185.59	184.16	182.90	181.80	180.89	179.17	178.65	179.34	146.41	151.12	156.97	161.29	167.77	185.85	191.92	198.32	205.85	212.14	219.60	227.44	235.71	244.40	253.55	263.18	273.32	283.99	295.22	307.04	319.48	332.58	346.36	360.86	376.19	
Per Unit Tariff Components (Fixed)	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Per Unit ORM Expenses	Rs/UWh	2.79	1.52	1.60	1.69	1.78	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.12	3.28	3.45	3.64	3.83	4.01	4.24	4.46	4.70	4.94	5.20	5.47	5.76	6.06	6.38	6.72	7.07	7.44	7.81	8.24	8.68	9.13	9.61	10.12	10.65	11.21
Per Unit Depreciation	Rs/UWh	1.28	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27		
Per Unit Interest on Loan	Rs/UWh	2.48	2.24	2.14	2.04	1.94	1.84	1.74	1.64	1.54	1.44	1.34	1.24	1.14	1.04	0.94	0.84	0.74	0.64	0.54	0.44	0.34	0.24	0.14	0.04	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		
Per unit interest on working capital	Rs/UWh	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.26	0.28	0.32	0.37	0.42	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.07	1.12	1.17	1.22	1.27			
Per unit RoE	Rs/UWh	1.94	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96			
PU Tariff Components	Rs/UWh	7.43	7.67	7.57	7.49	7.41	7.33	7.26	7.20	7.13	7.07	7.02	6.98	6.96	6.92	6.80	6.60	6.40	6.20	5.99	6.19	6.41	7.14	7.36	7.62	7.88	8.15	8.41	8.74	9.05	9.39	9.74	10.11	10.50	10.91	11.34	11.79	12.27	12.77	13.30	13.86	14.47
Levelized Tariff	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
Discount Factors		1.00	0.91	0.84	0.76	0.70	0.64	0.58	0.53	0.49	0.45	0.41	0.37	0.34	0.31	0.28	0.26	0.24	0.22	0.20	0.18	0.17	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.04	0.04	0.04	0.03	0.03			
Levelized Tariff	Rs/UWh	7.43																																								
Discount Rate		9.40%																																								

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		Mainland (Below 5MW): Determination of Tariff Components for FY 2026-27																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Units Generation	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Installed Capacity	MW	1	1																	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1</

3.2 Mainland (5MW to 25MW) - Assumptions and Parameters for Tariff Determination

Sl. No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation	MW	1
			Capacity	%	
			Capacity Utilization Factor(CUF)	%	30%
			Auxiliary Consumption	%	1%
			Commercial Operation Date (COD)	dd/mm/yyyy	
			Useful Life	Years	40
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakh/MW	1027.00
			Capital Cost	Rs. Lakh	
				Rs. Lakh	1027
			Capital Subsidy, if any	Rs. Lakh	0.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	40
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	718.9
			Total equity amount	Rs. Lakh	308.1
			Loan Amount	Rs. Lakh	718.9
			Moratorium Period	Years	
			Repayment Period (incl moratorium) = loan tenure	Years	15
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	308.10
			RoE for 1 st 20 years	%p.a.	18.18%
			RoE after 20 years	%p.a.	23.06%
			Discount Rate	%	9.40%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep Rate 16 th year onwards	%	0.80%
		Incentives	GBI, if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses p.a.		Rs. Lakh/MW	28.72
		O&M Expenses p.a.		Rs. Lakh	28.72
		Escalation Factor		%	5.25%
5	Working Capital	O&M Expenses		Month	1
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2
		Interest on WC		%	12.00%

Sl. No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
6	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766

		Mainland (5MW to 25MW): Determination of Tariff Components for FY 2024-25																																										
Units Generation	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
Installed Capacity	MW	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Net Generation	MU	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90		
Tariff Components (Fixed charges)																																												
O&M Expenses	Rs/Lakh	28.72	30.23	31.81	33.45	35.24	37.09	39.04	41.09	43.25	45.52	47.91	50.42	53.07	55.86	58.79	61.88	65.12	68.54	72.14	75.93	79.91	84.11	88.53	93.17	98.07	103.21	108.63	114.34	120.34	126.66	133.31	140.30	147.67	155.42	163.56	172.17	181.21	190.72	200.74	211.27			
Depreciation & Amortisation	Rs/Lakh	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93	47.93			
Interest on Loan	Rs/Lakh	74.71	69.56	64.40	59.25	54.10	48.95	43.80	38.65	33.49	28.34	23.19	18.05	12.90	7.73	2.58	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Interest on working Capital	Rs/Lakh	5.05	5.00	4.99	4.97	4.95	4.94	4.93	4.92	4.92	4.90	4.84	4.96	4.98	5.01	5.05	4.94	4.96	4.67	4.84	5.03	5.23	5.54	5.96	6.18	6.42	6.67	6.94	7.22	7.51	7.82	8.15	8.48	8.82	9.23	9.63	10.05	10.49	10.96	11.45	11.97			
Return on Equity	Rs/Lakh	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00		
Total Fixed Cost	Rs/Lakh	212.41	200.73	195.14	191.63	186.22	180.96	174.90	169.69	164.56	158.59	152.71	146.96	141.46	135.43	129.43	123.43	117.43	111.43	105.43	99.43	93.43	87.43	81.43	75.43	69.43	63.43	57.43	51.43	45.43	39.43	33.43	27.43	21.43	15.43	9.43	3.43	-2.43	-8.43	-14.43	-20.43	-26.43		
Per Unit Tariff Components (Fixed)																																												
Per Unit O&M Expenses	Rs/kWh	2.02	1.10	1.16	1.22	1.20	1.35	1.42	1.50	1.58	1.66	1.75	1.84	1.94	2.04	2.15	2.26	2.38	2.50	2.63	2.77	2.92	3.09	3.23	3.40	3.58	3.77	3.96	4.17	4.39	4.62	4.86	5.12	5.39	5.67	5.97	6.28	6.61	6.96	7.33	7.71	8.12		
Per Unit Depreciation & Amortisation	Rs/kWh	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68		
Per Unit Interest on term loan	Rs/kWh	1.37	2.07	2.67	2.47	2.26	2.08	1.88	1.68	1.48	1.29	1.09	0.89	0.69	0.49	0.30	0.10	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Per unit interest on working capital	Rs/kWh	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19		
Per unit RoE	Rs/kWh	2.23	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15		
PU Tariff Components	Rs/kWh	7.31	8.16	8.02	7.88	7.74	7.61	7.49	7.36	7.24	7.13	7.02	6.91	6.81	6.72	6.63	6.54	6.45	6.36	6.27	6.18	6.09	6.00	5.91	5.82	5.73	5.64	5.55	5.46	5.37	5.28	5.19	5.10	5.01	4.92	4.83	4.74	4.65	4.56	4.47	4.38	4.29	4.20	
Levied Tariff																																												
Levied Tariff	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
Discount Factors		1.00	0.91	0.84	0.76	0.70	0.64	0.58	0.53	0.49	0.45	0.41	0.37	0.34	0.31	0.28	0.26	0.24	0.22	0.20	0.18	0.17	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.03			
Levied Tariff	Rs/kWh	7.31																																										
Discount Rate	9.40%																																											

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Per Unit Tariff Components (Fixed)	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
Per Unit O&M Expenses	RoKWh	2.13		1.16	1.22	1.29	1.35	1.42	1.50	1.58	1.66	1.75	1.84	1.94	2.04	2.15	2.26	2.38	2.50	2.63	2.77	2.92	3.07	3.23	3.40	3.58	3.77	3.96	4.17	4.39	4.62	4.86	5.12	5.39	5.67	5.97	6.28	6.61	6.96	7.33	7.71	8.12	8.54	
Per Unit Depreciation	RoKWh	1.48		1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Per Unit Int on term loan	RoKWh	1.37		2.87	2.67	2.47	2.28	2.08	1.88	1.68	1.48	1.29	1.09	0.89	0.69	0.47	0.30	0.10	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Unit interest on working capital	RoKWh	0.21		0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20	0.20	0.17	0.18	0.19	0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.33	0.34	0.35	0.37	0.39	0.40	0.42	0.44	0.46	0.48	
Per Unit RoI:	RoKWh	2.23		2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
PU Tariff Components	RoKWh	7.42		8.22	8.08	7.95	7.82	7.69	7.56	7.45	7.35	7.22	7.11	7.01	6.92	6.83	6.74	6.65	6.54	6.45	6.32	6.22	6.12	6.02	5.92	5.82	5.73	5.63	5.53	5.43	5.33	5.23	5.13	5.03	4.93	4.83	4.73	4.63	4.53	4.43	4.33	4.23	4.13	4.03

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3.3 Island (Below 5MW) - Assumptions and Parameters for Tariff Determination

Sl. No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation	MW	1
			Capacity	%	
			Capacity Utilization Factor(CUF)	%	30%
			Auxiliary Consumption	%	1%
			Commercial Operation Date (COD)	dd/mm/yyyy	
			Useful Life	Years	40
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakh/MW	1200.00
			Capital Cost	Rs. Lakh	
				Rs. Lakh	1200
			Capital Subsidy, if any	Rs. Lakh	0.00
3	Financial Assumption	Debt Equity	Net Capital Cost	Rs. Lakh	1200.00
			Tariff Period	Years	40
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	840
			Total equity amount	Rs. Lakh	360
			Loan Amount	Rs. Lakh	840
			Moratorium Period	Years	
			Repayment Period (incl moratorium) = loan tenure	Years	15
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	360.00
			RoE for 1 st 20 years	%p.a.	20.60%
			RoE after 20 years	%p.a.	26.13%
			Discount Rate	%	10.45%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep Rate 16 th year onwards	%	0.80%
		Incentives	GBI, if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses p.a.		Rs. Lakh/ MW	49.24
		O&M Expenses p.a.		Rs. Lakh	49.24
		Escalation Factor		%	5.25%

Sl. No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
5	Working Capital	O&M Expenses		Month	1
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2
		Interest on WC		%	13.00%
6	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
OR&M Expenses	Rs Lakh	49.24	51.83	54.55	57.41	60.42	63.60	66.93	70.45	74.15	78.04	82.14	86.45	90.99	95.76	100.75	106.08	111.65	117.52	123.68	130.18	137.01	144.21	151.78	159.74	168.13	176.96	186.25	196.03	206.32	217.15	228.55	240.55	253.18	266.47	280.46	295.18	310.68	326.99	344.16	362.23		
Depreciation	Rs Lakh	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	
Interest on Loan	Rs Lakh	95.41	88.83	82.25	75.67	69.09	62.51	55.93	49.35	42.77	36.19	29.61	23.03	16.45	9.87	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Interest on working Capital	Rs Lakh	7.61	7.60	7.60	7.61	7.62	7.65	7.68	7.72	7.77	7.83	7.90	7.99	8.08	8.19	8.31	7.49	7.79	8.10	8.43	8.77	9.18	9.56	9.96	10.36	10.79	11.23	11.70	12.20	12.72	13.26	13.84	14.44	15.08	15.75	16.46	17.20	17.99	18.81	19.68	20.59	21.55	
Return on Equity	Rs Lakh	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	
Total Fixed Cost	Rs Lakh	282.42	278.42	274.54	270.85	267.30	263.91	260.78	257.68	254.85	252.22	249.81	247.62	245.68	243.98	242.55	241.33	240.29	239.37	238.57	237.87	237.27	236.76	236.34	236.00	235.74	235.56	235.44	235.37	235.32	235.28	235.25	235.23	235.21	235.20	235.19	235.18	235.17	235.16	235.15	235.14	235.13	235.12

Per Unit Tariff Components (Fixed)	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40							
Per Unit O&M Expenses	Rsk/Wh	3.31	1.89	1.59	2.10	2.21	2.32	2.44	2.57	2.71	2.85	3.00	3.15	3.32	3.40	3.68	3.87	4.07	4.29	4.51	4.75	5.00	5.28	5.54	5.83	6.14	6.46	6.80	7.15	7.53	7.92	8.34	8.78	9.24	9.72	10.24	10.77	11.34	11.93	12.56	13.22	13.91							
Per Unit Depreciation	Rsk/Wh	1.78	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37							
Per Unit Int on term loan	Rsk/Wh	1.85	3.66	3.41	3.15	2.91	2.65	2.40	2.15	1.90	1.64	1.39	1.14	0.88	0.63	0.38	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Per unit interest on working capital	Rsk/Wh	0.32	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.32	0.29	0.30	0.31	0.32	0.34	0.37	0.38	0.40	0.41	0.43	0.45	0.47	0.49	0.51	0.53	0.55	0.58	0.61	0.63	0.66	0.69	0.72	0.76	0.79	0.83	0.87						
Per unit RoI:	Rsk/Wh	2.94	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85						
PU Tariff Components	Rsk/Wh	10.20	10.85	10.69	10.55	10.40	10.27	10.14	10.01	9.90	9.79	9.69	9.60	9.50	9.44	9.37	9.32	7.58	7.90	8.04	8.29	8.55	8.85	9.61	9.61	9.61	9.61	9.61	9.61	9.61	9.61	10.21	10.53	10.87	11.23	11.60	12.00	12.42	12.85	13.32	13.80	14.31	14.85	15.42	16.01	16.64	17.30	17.99	18.72

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Island (below 5MW): Determination of Tariff Components for FY 2025-26

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Tariff Components (Fixed charges)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
OA&M Expenses	Rs Lakh	51.83	54.55	57.41	60.42	63.60	66.93	70.45	74.15	78.04	82.14	86.45	90.99	95.76	100.79	106.08	111.65	117.52	123.68	130.18	137.01	144.21	151.78	159.74	168.13	176.96	186.25	196.03	206.32	217.15	228.55	240.55	253.18	266.47	280.46	295.18	310.68	326.99	344.16	362.23	381.24			
Depreciation	Rs Lakh	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
Interest on Loan	Rs Lakh	96.41	88.63	82.25	75.67	69.09	62.51	55.93	49.35	42.77	36.19	29.61	23.03	16.45	9.87	3.29																												
Interest on working Capital	Rs Lakh	7.75	7.75	7.76	7.77	7.79	7.82	7.87	7.92	7.98	8.05	8.13	8.21	8.34	8.46	8.59	8.79	8.10	8.43	8.77	9.14	9.56	10.06	10.79	11.23	11.70	12.20	12.72	13.26	13.84	14.44	15.08	15.75	16.46	17.20	17.99	18.81	19.68	20.59	21.55	22.56			
Return on Equity	Rs Lakh	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	
Total Fixed Cost	Rs Lakh	285.15	281.29	277.58	274.82	278.94	286.43	284.48	281.57	258.95	236.54	254.35	252.48	258.71	249.28	248.11	243.20	249.17	215.87	222.71	228.91	257.84	265.81	274.09	283.64	292.33	302.12	312.42	323.25	334.66	346.67	359.38	372.68	386.66	401.34	418.84	433.16	450.34	468.42	487.45	507.48			

Per Unit Tariff Components (Fixed)	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42			
Per Unit O&M Expenses	Rsk/Wb	1.48	1.59	2.10	2.21	2.32	2.44	2.57	2.71	2.85	3.00	3.15	3.32	3.49	3.68	3.87	4.07	4.29	4.51	4.75	5.00	5.26	5.54	5.83	6.14	6.46	6.80	7.15	7.53	7.92	8.34	8.78	9.24	9.72	10.24	10.77	11.34	11.93	12.56	13.22	13.91	14.64					
Per Unit Depreciation	Rsk/Wb	1.70	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37		
Per Unit Int on term loan	Rsk/Wb	1.85	3.46	3.41	3.16	2.91	2.65	2.40	2.15	1.90	1.64	1.39	1.14	0.88	0.63	0.38	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Per unit interest on working capital	Rsk/Wb	0.33	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.30	0.31	0.32	0.34	0.35	0.38	0.40	0.41	0.43	0.45	0.47	0.49	0.51	0.53	0.55	0.58	0.61	0.63	0.66	0.69	0.72	0.76	0.79	0.83	0.87	0.91	0.95	0.99	1.03	
Per Unit Rot	Rsk/Wb	2.94	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85
PU Tariff Components	Rsk/Wb	10.39	10.95	10.80	10.66	10.53	10.40	10.27	10.16	10.05	9.95	9.85	9.77	9.69	9.63	9.57	9.53	7.80	8.04	8.29	8.55	8.83	9.01	9.21	10.53	10.87	11.23	11.60	12.00	12.42	12.85	13.32	13.80	14.31	14.85	15.42	16.01	16.64	17.30	17.99	18.72	19.49	20.26	21.03	21.81	22.60	

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Profit Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
OR&I Expenses	R\$ Lakh		54.55	57.41	60.42	63.60	66.93	70.45	74.15	78.04	82.14	86.45	90.99	95.76	100.79	106.08	111.65	117.52	123.68	130.18	137.01	144.21	151.78	159.74	168.13	176.96	186.25	196.03	206.32	217.15	228.55	340.55	353.18	266.47	280.46	295.18	310.68	326.99	344.16	362.23	381.24	401.26		
Depreciation	R\$ Lakh		56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	
Interest on Loan	R\$ Lakh		95.41	88.83	82.25	75.67	69.09	62.51	55.93	49.35	42.77	36.19	29.61	23.03	16.45	9.87	3.29																											
Interest on working Capital	R\$ Lakh		7394	7395	7396	7398	8882	8886	8111	8117	8284	8322	8423	8885	8878	8393	8315	8347	8882	9318	9336	10036	10079	11323	11470	12200	12272	13236	13384	14444	15588	15755	16646	17720	17799	18881	19968	20959	21555	22556	23562			
Return on Equity	R\$ Lakh		74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	
Total Fixed Cost	R\$ Lakh		288.81	284.30	268.75	277.37	274.16	271.13	268.30	265.67	263.26	261.88	259.13	257.44	256.00	254.85	253.99	249.37	215.87	222.71	229.91	237.48	265.81	274.28	283.04	292.33	302.12	312.42	323.25	334.66	346.67	359.38	372.60	386.64	401.34	416.84	433.16	450.34	468.42	487.45	507.48	528.56		

Per Unit Tariff Components (Fixed)	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42			
Per Unit O&M Expenses	R\$/kWh	3.67			2.10	2.21	2.32	2.44	2.57	2.71	2.85	3.00	3.15	3.32	3.49	3.68	3.87	4.07	4.29	4.51	4.75	5.00	5.26	5.54	5.83	6.14	6.46	6.80	7.15	7.53	7.92	8.34	8.78	9.24	9.72	10.24	10.77	11.34	12.56	13.22	13.91	14.64	15.41				
Per Unit Depreciation	R\$/kWh	1.78			2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37		
Per Unit Interest on term loan	R\$/kWh	1.85			3.66	3.41	3.16	2.91	2.65	2.40	2.15	1.90	1.64	1.39	1.14	0.88	0.63	0.38	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Per unit interest on working capital	R\$/kWh	0.34			0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.34	0.34	0.31	0.33	0.34	0.35	0.37	0.40	0.41	0.43	0.45	0.47	0.49	0.51	0.53	0.55	0.58	0.61	0.63	0.66	0.69	0.72	0.76	0.79	0.83	0.87	0.91	0.94	0.97
per unit Rot	R\$/kWh	2.94			2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85
PU Tariff Components	R\$/kWh	10.58			11.66	10.92	10.78	10.65	10.53	10.41	10.31	10.20	10.11	10.03	9.95	9.89	9.83	9.79	9.76	8.04	8.29	8.55	8.83	9.12	10.21	10.53	10.87	11.23	11.60	12.00	12.42	12.85	13.32	13.80	14.31	14.85	15.42	16.01	16.64	17.30	17.99	18.72	19.49	20.30			

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3.4 Island (5MW to 25MW) - Assumptions and Parameters for Tariff Determination

Sl. No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation	MW	1
			Capacity	%	
			Capacity Utilization Factor(CUF)	%	30%
			Auxiliary Consumption	%	1%
			Commercial Operation Date (COD)	dd/mm/yyyy	
			Useful Life	Years	40
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakh/MW	1200.00
			Capital Cost	Rs. Lakh	
				Rs. Lakh	1200
			Capital Subsidy, if any	Rs. Lakh	0.00
3	Financial Assumption	Debt Equity	Net Capital Cost	Rs. Lakh	1200.00
			Tariff Period	Years	40
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	840
			Total equity amount	Rs. Lakh	360
			Loan Amount	Rs. Lakh	840
			Moratorium Period	Years	
			Repayment Period (incl moratorium) = loan tenure	Years	15
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	360.00
			RoE for 1 st 20 years	%p.a.	20.60%
			RoE after 20 years	%p.a.	26.13%
			Discount Rate	%	10.45%
			Dep Rate for 1 st 15 years	%	4.67%
		Depreciation	Dep Rate 16 th year onwards	%	0.80%
			GBI, if any	Rs. Lakh	
		Incentives	Period for GBI	Years	

Sl. No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
4	O&M Expenses	Normative O&M Expenses p.a.		Rs. Lakh/ MW	36.93
		O&M Expenses p.a.		Rs. Lakh	36.93
		Escalation Factor		%	5.25%
5	Working Capital	O&M Expenses		Month	1
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2
		Interest on WC		%	13.00%
6	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766

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[illegible]

Per Unit Tariff Components (Fixed)	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41			
Per Unit O&M Expenses	Rv/Wh	261		1.49	1.59	1.65	1.74	1.83	1.93	2.00	2.14	2.25	2.37	2.49	262	2.76	2.90	3.06	3.22	3.39	3.56	3.75	3.95	4.15	4.39	4.60	4.84	5.10	5.37	5.65	5.94	6.26	6.58	6.93	7.29	7.68	8.08	8.50	8.95	9.42	9.91	10.43	10.98			
Per Unit Depreciation	Rv/Wh	178		2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37		
Per Unit Int on term loan	Rv/Wh	1.85		3.66	3.64	3.16	2.91	2.65	2.40	2.15	1.90	1.64	1.39	1.14	0.88	0.63	0.38	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Per unit interest on working capital	Rv/Wh	0.28		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.31	0.32	0.33	0.35	0.36	0.37	0.39	0.40	0.42	0.44	0.46	0.48	0.50	0.52	0.54	0.56	0.59	0.62	0.64	0.67									
Per unit RoE	Rv/Wh	2.94		2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85	2.85
PU Tariff Components	Rv/Wh	9.47		10.43	10.25	10.08	9.91	9.75	9.60	9.44	9.30	9.16	9.02	8.90	8.77	8.66	8.56	8.46	8.68	8.85	7.04	7.24	7.45	7.65	7.85	8.07	8.31	8.57	8.82	9.17	9.61	10.02	10.43	10.66	11.00	11.37	11.75	12.15	12.58	13.03	13.50	13.99	14.51	15.06	15.64	

Island (\$MM to \$25MM): Determination of Tariff Components for FY 2026-27																																													
Units Generation	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
Renewable Capacity	MW		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Net Generation	MW				2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500		
Tariff Components (Fixed charges)																																													
GRM Expenses	Rs Lakh	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
	Rs Lakh		40,391	43,100	44,546	47,797	50,640	52,842	55,611	58,103	60,333	62,300	64,044	65,581	66,932	68,106	69,106	69,936	70,594	71,184	71,712	72,185	72,601	72,961	73,265	73,514	73,718	73,878	73,995	74,069	74,101	74,124	74,138	74,144	74,141	74,131	74,114	74,089	74,058	74,023	73,984	73,941	73,894	73,843	
	Rs Lakh		50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Interest on Loan	Rs Lakh		95.41	88.83	82.25	75.67	69.09	62.51	55.93	49.35	42.77	36.19	29.61	23.03	16.45	9.87	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest on working Capital	Rs Lakh		7.17	7.14	7.11	7.09	7.08	7.08	7.08	7.08	7.09	7.10	7.11	7.12	7.13	7.14	7.15	7.16	7.17	7.18	7.19	7.20	7.21	7.22	7.23	7.24	7.25	7.26	7.27	7.28	7.29	7.30	7.31	7.32	7.33	7.34	7.35	7.36	7.37	7.38	7.39	7.40	7.41	7.42	
Return on Equity	Rs Lakh		74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	74.07	
Total Fixed Cost	Rs Lakh		27,535	289.19	264.84	266.62	296.53	252.58	248.78	245.13	241.94	238.32	235.17	232.23	229.47	226.32	223.30	220.43	217.61	214.83	212.10	209.42	206.79	204.21	201.67	199.17	196.70	194.26	191.85	189.47	187.12	184.80	182.50	180.22	177.98	175.76	173.57	171.41	169.27	167.16	165.08	163.02	160.98	158.96	156.95
Per Unit Tariff Components (Fixed)																																													
Per Unit GRM Expenses	Rs/kWh	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
	Rs/kWh		2.79	1.57	1.85	1.74	1.81	1.93	2.01	2.14	2.25	2.39	2.49	2.62	2.76	2.90	3.06	3.22	3.38	3.56	3.75	3.95	4.15	4.37	4.60	4.84	5.08	5.30	5.54	5.78	6.03	6.28	6.50	6.80	7.25	7.68	8.08	8.50	8.95	9.42	9.91	10.41	10.98	11.56	
Per Unit Depreciation	Rs/kWh		1.79	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	
Per Unit Interest on loan	Rs/kWh		1.60	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Per unit interest on working capital	Rs/kWh		0.29	0.08	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Per unit RoE	Rs/kWh		2.84	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
Per Unit Tariff Components	Rs/kWh		2.94	10.51	10.54	10.17	10.01	10.01	9.85	9.70	9.56	9.42	9.28	9.15	9.03	8.92	8.81	8.72	8.63	8.65	8.66	8.64	8.62	8.60	8.58	8.56	8.54	8.52	8.50	8.47	8.44	8.42	8.39	8.36	8.33	8.30	8.27	8.24	8.21	8.18	8.15	8.12	8.09	8.06	
Levelized Tariff																																													
Discount Factors	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
	Rs/kWh		1.00	0.91	0.82	0.74	0.67	0.61	0.55	0.50	0.45	0.41	0.37	0.34	0.30	0.27	0.25	0.23	0.20	0.19	0.17	0.15	0.14	0.12	0.11	0.10	0.09	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02		
Levelized Tariff	Rs/kWh		9.81																																										
Discount Rate	10.45%																																												

4 GENERIC TARIFF FOR BIOMASS POWER PROJECT WITH RANKINE CYCLE TECHNOLOGY

4.1 Mainland: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	638.00
			Capital Cost	Rs. Lakh	638.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	638.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	446.60
			Total equity amount	Rs. Lakh	191.40
			Loan Amount	Rs. Lakh	446.60
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	191.40
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

FY 2024-25

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh	46.41	43.21	40.01	36.81	33.61	30.41	27.21	24.01	20.81	17.60	14.40	11.20	8.00	4.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	29.68	30.61	31.58	32.58	33.63	34.71	35.84	37.02	38.24	39.50	40.82	42.19	43.62	45.09	46.63	47.91	49.64	51.43	53.29	55.21	57.39	59.47	61.62	63.86	66.18	
Return on Equity	Rs Lakh	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	41.19	41.19	41.19	41.19	41.19	41.19
Total Fixed Cost	Rs Lakh	193.03	193.63	194.42	195.41	196.60	198.01	199.65	201.53	203.65	206.04	208.71	211.67	214.94	218.52	222.44	210.99	218.90	227.20	235.92	245.06	263.55	273.61	284.18	295.27	306.91	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs./MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.96	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.37	0.87	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96
Per Unit Depreciation	R\$/kWh	0.42	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	R\$/kWh	0.38	0.74	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.62	0.47	0.48	0.50	0.52	0.53	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.71	0.74	0.76	0.79	0.81	0.84	0.87	0.91	0.94	0.98	1.01	1.05
Per unit RoE	R\$/kWh	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.65	0.65	0.65	0.65	0.65
PU Tariff Components (Fixed)	R\$/kWh	3.31	3.06	3.07	3.08	3.10	3.11	3.14	3.16	3.19	3.23	3.26	3.31	3.35	3.41	3.46	3.52	3.34	3.47	3.60	3.74	3.88	4.18	4.34	4.50	4.68	4.86
PU Tariff Components (Variable)	R\$/kWh	8.57	6.41	6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47
PU Tariff Components (Total)	R\$/kWh	11.88	9.47	9.70	9.94	10.20	10.46	10.74	11.02	11.32	11.64	11.97	12.31	12.67	13.04	13.43	13.83	14.01	14.50	15.01	15.55	16.10	16.81	17.41	18.03	18.67	19.34

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
G&M Expenses	Rs Lakh		57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh		29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh		46.41	43.21	40.01	36.81	33.61	30.41	27.21	24.01	20.81	17.60	14.40	11.20	8.00	4.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		30.67	31.64	32.65	33.69	34.78	35.91	37.08	38.30	39.57	40.89	42.26	43.68	45.16	46.70	48.29	49.64	51.43	53.29	55.21	57.21	59.47	61.62	63.86	66.18	68.59	
Return on Equity	Rs Lakh		32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	41.19	41.19	41.19	41.19	41.19	41.19	
Total Fixed Cost	Rs Lakh		196.90	197.69	198.67	199.87	201.28	202.91	204.79	206.92	209.31	211.98	214.94	218.20	221.79	225.71	229.98	218.90	227.20	235.92	245.06	254.65	273.61	284.18	295.27	306.91	319.12	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs./MT			4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh			418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.44	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11	
Per Unit Depreciation	Rs/kWh	0.42	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Per Unit Int on term loan	Rs/kWh	0.38	0.74	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Per unit interest on working capital	Rs/kWh	0.64	0.49	0.50	0.52	0.53	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.72	0.74	0.77	0.79	0.81	0.84	0.87	0.91	0.94	0.98	1.01	1.05	1.09	
Per unit RoE	Rs/kWh	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.65	0.65	0.65	0.65	0.65	
PU Tariff Components (Fixed)	Rs/kWh	3.41	3.12	3.13	3.15	3.17	3.19	3.21	3.24	3.28	3.32	3.36	3.41	3.46	3.51	3.58	3.64	3.47	3.60	3.74	3.88	4.03	4.34	4.50	4.68	4.86	5.06	
PU Tariff Components (Variable)	Rs/kWh	8.86	6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47	14.97	
PU Tariff Components (Total)	Rs/kWh	12.27	9.75	10.00	10.25	10.51	10.79	11.08	11.38	11.69	12.02	12.36	12.72	13.09	13.48	13.89	14.31	14.50	15.01	15.55	16.10	16.67	17.41	18.03	18.67	19.34	20.03	

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Arariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh			60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90
Depreciation	Rs Lakh			29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh			46.41	43.21	40.01	36.81	33.61	30.41	27.21	24.01	20.81	17.60	14.40	11.20	8.00	4.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh			31.71	32.71	33.76	34.84	35.97	37.15	38.37	39.64	40.95	42.32	43.75	45.22	46.76	48.36	50.02	51.43	53.29	55.21	57.21	59.29	61.62	63.86	66.18	68.59	71.09
Return on Equity	Rs Lakh			32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47
Total Fixed Cost	Rs Lakh			200.96	201.94	203.13	204.54	206.18	208.06	210.19	212.58	215.25	218.20	221.47	225.05	228.97	233.25	237.90	227.20	235.92	245.06	254.65	264.72	284.18	295.27	306.91	319.12	331.94

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Base Price	Rs./MT				4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69	10644.00
Biomass Cost	Rs Lakh				433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04	977.65	1011.38

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.52			0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11	3.28
Per Unit Depreciation	Rs/kWh	0.42			0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	Rs/kWh	0.38			0.74	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.66			0.50	0.52	0.53	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.72	0.74	0.77	0.79	0.81	0.84	0.87	0.91	0.94	0.98	1.01	1.05	1.09	1.11
Per unit RoE	Rs/kWh	0.52			0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.65	0.65	0.65	0.65	0.65
PU Tariff Components (Fixed)	Rs/kWh	3.51			3.18	3.20	3.22	3.24	3.27	3.30	3.33	3.37	3.41	3.46	3.51	3.57	3.63	3.70	3.77	3.86	3.74	3.88	4.03	4.19	4.50	4.68	4.86	5.06	5.21
PU Tariff Components (Variable)	Rs/kWh	9.17			6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47	14.97	15.48
PU Tariff Components (Total)	Rs/kWh	12.67			10.05	10.30	10.56	10.84	11.13	11.43	11.74	12.07	12.41	12.77	13.14	13.53	13.94	14.36	14.80	15.01	15.55	16.10	16.67	17.27	18.03	18.67	19.34	20.03	20.77

Levelised Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Discount Factors					1.00	0.92	0.84	0.77	0.71	0.65	0.59	0.54	0.50	0.46	0.42	0.38	0.35	0.32	0.30	0.27	0.25	0.23	0.21	0.19	0.18	0.16	0.15	0.14	0.12
Levelised Tariff (Total)	Rs/kWh	12.67																											
Discount Rate		9.10%																											

4.2 Mainland: Other than Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	685.00
			Capital Cost	Rs. Lakh	685.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	685.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	479.50
			Total equity amount	Rs. Lakh	205.50
			Loan Amount	Rs. Lakh	479.50
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	205.50
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameter
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh		54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77
Depreciation	Rs Lakh		31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
Interest on Loan	Rs Lakh		49.83	46.39	42.96	39.52	36.08	32.65	29.21	25.77	22.34	18.90	15.46	12.03	8.59	5.15	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		29.84	30.77	31.73	32.73	33.77	34.85	35.98	37.15	38.36	39.62	40.94	42.30	43.72	45.20	46.73	47.98	49.71	51.50	53.35	55.28	57.47	59.55	61.71	63.94	66.26
Return on Equity	Rs Lakh		34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	44.22	44.22	44.22	44.22	44.22
Total Fixed Cost	Rs Lakh		201.20	201.56	202.11	202.85	203.81	204.98	206.37	208.01	209.90	212.05	214.47	217.19	220.22	223.56	227.24	214.39	222.30	230.60	239.32	248.46	267.60	277.67	288.23	299.32	310.96

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs/MT		4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5212.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.13	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh		404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.73	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.40	0.89	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03
Per Unit Depreciation	R\$/kWh	0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Per Unit Int on term loan	R\$/kWh	0.42	0.81	0.75	0.70	0.64	0.58	0.53	0.47	0.42	0.36	0.31	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.63	0.48	0.50	0.51	0.53	0.55	0.56	0.58	0.60	0.62	0.64	0.66	0.69	0.71	0.73	0.76	0.78	0.81	0.83	0.86	0.90	0.93	0.96	1.00	1.04	1.07
Per unit RoE	R\$/kWh	0.58	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.72	0.72	0.72	0.72
PU Tariff Components (Fixed)	R\$/kWh	3.49	3.26	3.27	3.28	3.29	3.30	3.32	3.34	3.37	3.40	3.44	3.48	3.52	3.57	3.62	3.68	3.47	3.60	3.74	3.88	4.03	4.34	4.50	4.67	4.85	5.04
PU Tariff Components (Variable)	R\$/kWh	8.76	6.56	6.78	7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.49	12.92	13.37	13.83	14.31	14.80
PU Tariff Components (Total)	R\$/kWh	12.25	9.82	10.05	10.29	10.55	10.81	11.09	11.38	11.69	12.00	12.34	12.68	13.04	13.42	13.82	14.23	14.38	14.89	15.41	15.96	16.52	17.26	17.87	18.50	19.16	19.84

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Tariff Components (Fixed charges)	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh			57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh			31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70
Interest on Loan	Rs Lakh			49.83	46.39	42.96	39.52	36.08	32.65	29.21	25.77	22.34	18.90	15.46	12.03	8.59	5.15	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh			30.84	31.80	32.80	33.84	34.92	36.05	37.22	38.43	39.69	41.01	42.37	43.79	45.27	46.80	48.39	49.71	51.50	53.35	55.28	57.28	59.55	61.71	63.94	66.26	68.67
Return on Equity	Rs Lakh			34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	44.22	44.22	44.22	44.22	44.22
Total Fixed Cost	Rs Lakh			205.07	205.62	206.36	207.31	208.48	209.88	211.52	213.40	215.55	217.98	220.70	223.72	227.07	230.75	234.78	222.30	230.60	239.32	248.46	258.05	277.67	288.23	299.32	310.96	323.18

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs./MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	
Biomass Cost	Rs Lakh		418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04	

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Per Unit O&M Expenses	Rs/kWh		1.47	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19	
Per Unit Depreciation	Rs/kWh		0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
Per Unit Int on term loan	Rs/kWh		0.42	0.81	0.75	0.70	0.64	0.58	0.53	0.47	0.42	0.36	0.31	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Per unit interest on working capital	Rs/kWh		0.66	0.50	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.64	0.66	0.69	0.71	0.73	0.76	0.78	0.81	0.83	0.86	0.90	0.93	0.96	1.00	1.04	1.07	1.11
Per unit RoE	Rs/kWh		0.58	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.72	0.72	0.72	0.72	0.72	
PU Tariff Components (Fixed)	Rs/kWh		3.39	3.32	3.33	3.34	3.36	3.38	3.40	3.43	3.46	3.49	3.53	3.58	3.63	3.68	3.74	3.80	3.86	3.74	3.88	4.03	4.18	4.50	4.67	4.85	5.04	5.24	
PU Tariff Components (Variable)	Rs/kWh		9.06	6.78	7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.49	12.92	13.37	13.83	14.31	14.80	15.31	
PU Tariff Components (Total)	Rs/kWh		12.65	10.11	10.35	10.61	10.87	11.15	11.44	11.74	12.06	12.39	12.74	13.10	13.48	13.87	14.28	14.71	14.89	15.41	15.96	16.52	17.11	17.87	18.56	19.16	19.84	20.55	

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses		Rs Lakh			60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90
Depreciation		Rs Lakh			31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70
Interest on Loan		Rs Lakh			49.83	46.39	42.96	39.52	36.08	32.65	29.21	25.77	22.34	18.90	15.46	12.03	8.59	5.15	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital		Rs Lakh			31.87	32.87	33.91	34.99	36.12	37.29	38.50	39.76	41.08	42.44	43.86	45.34	46.87	48.46	50.11	51.50	53.35	55.28	57.28	59.36	61.71	63.94	66.26	68.67	71.18
Return on Equity		Rs Lakh			34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	44.22	44.22	44.22	44.22	44.22	44.22
Total Fixed Cost		Rs Lakh			209.12	209.87	210.82	211.99	213.39	215.02	216.91	219.06	221.49	224.21	227.23	230.57	234.26	238.29	242.69	230.60	239.32	248.46	258.05	268.12	288.23	299.32	310.96	323.18	336.00

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs./MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh			433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04	977.65

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	R\$/kWh	1.55			0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19	3.35
Per Unit Depreciation	R\$/kWh	0.47			0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Per Unit Int on term loan	R\$/kWh	0.42			0.81	0.75	0.70	0.64	0.58	0.53	0.47	0.42	0.36	0.31	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.68			0.52	0.53	0.55	0.57	0.59	0.60	0.62	0.64	0.67	0.69	0.71	0.73	0.76	0.79	0.81	0.83	0.86	0.90	0.93	0.96	1.00	1.04	1.07	1.11	1.15
Per unit RoE	R\$/kWh	0.58			0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.72	0.72	0.72	0.72	0.72
PU Tariff Components (Fixed)	R\$/kWh	3.69			3.39	3.40	3.42	3.44	3.46	3.48	3.51	3.55	3.59	3.63	3.68	3.74	3.80	3.86	3.93	3.74	3.88	4.03	4.18	4.34	4.67	4.85	5.04	5.24	5.44
PU Tariff Components (Variable)	R\$/kWh	9.38			7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.49	12.92	13.37	13.83	14.31	14.80	15.31	15.84
PU Tariff Components (Total)	R\$/kWh	13.06			10.41	10.66	10.93	11.21	11.50	11.80	12.12	12.45	12.80	13.16	13.54	13.93	14.34	14.77	15.22	15.41	15.96	16.52	17.11	17.72	18.59	19.16	19.84	20.55	21.29

Levelised Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Discount Factors					1.00	0.92	0.84	0.77	0.71	0.65	0.59	0.54	0.50	0.46	0.42	0.38	0.35	0.32	0.30	0.27	0.25	0.23	0.21	0.19	0.18	0.16	0.15	0.14	0.12
Levelised Tariff (Total)	R\$/kWh	13.06																											
Discount Rate	9.10%																												

4.3 Mainland: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	697.00
			Capital Cost	Rs. Lakh	697.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	697.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	487.90
			Total equity amount	Rs. Lakh	209.10
			Loan Amount	Rs. Lakh	487.90
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	209.10
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	
Interest on Loan	Rs Lakh	50.70	47.21	43.71	40.21	36.72	33.22	29.72	26.23	22.73	19.23	15.74	12.24	8.74	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Interest on working Capital	Rs Lakh	29.88	30.81	31.77	32.77	33.81	34.89	36.01	37.18	38.39	39.66	40.97	42.33	43.75	45.22	46.75	48.00	49.72	51.51	53.37	55.30	57.49	59.57	61.73	63.96	66.28	
Return on Equity	Rs Lakh	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	
Total Fixed Cost	Rs Lakh	203.29	203.58	204.07	204.76	205.65	206.75	208.09	209.66	211.49	213.58	215.95	218.60	221.57	224.85	228.47	215.26	223.17	231.47	240.18	249.32	268.64	278.70	289.27	300.36	312.00	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs./MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.37	0.87	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96
Per Unit Depreciation	R\$/kWh	0.46	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
Per Unit Int on term loan	R\$/kWh	0.41	0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Per unit interest on working capital	R\$/kWh	0.62	0.47	0.49	0.50	0.52	0.54	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.72	0.74	0.76	0.79	0.82	0.85	0.88	0.91	0.94	0.98	1.01	
Per unit RoE	R\$/kWh	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.71	0.71	0.71	0.71	
PU Tariff Components (Fixed)	R\$/kWh	3.44	3.22	3.23	3.23	3.24	3.26	3.28	3.30	3.32	3.35	3.38	3.42	3.46	3.51	3.56	3.62	3.41	3.54	3.67	3.81	3.95	4.26	4.42	4.58	4.76	
PU Tariff Components (Variable)	R\$/kWh	8.57	6.41	6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.95	
PU Tariff Components (Total)	R\$/kWh	12.01	9.63	9.86	10.10	10.34	10.60	10.87	11.16	11.45	11.76	12.09	12.42	12.78	13.14	13.53	13.93	14.08	14.57	15.08	15.61	16.17	16.89	17.49	18.11	18.75	

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	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34	FY 2034-35	FY 2035-36	FY 2036-37	FY 2037-38	FY 2038-39	FY 2039-40	FY 2040-41	FY 2041-42	FY 2042-43	FY 2043-44	FY 2044-45	FY 2045-46	FY 2046-47	FY 2047-48	FY 2048-49	FY 2049-50	FY 2050-51	FY 2051-52	FY 2052-53	FY 2053-54	FY 2054-55	FY 2055-56	FY 2056-57	FY 2057-58	FY 2058-59	FY 2059-60	FY 2060-61	FY 2061-62	FY 2062-63	FY 2063-64	FY 2064-65	FY 2065-66	FY 2066-67	FY 2067-68	FY 2068-69	FY 2069-70	FY 2070-71	FY 2071-72	FY 2072-73	FY 2073-74	FY 2074-75	FY 2075-76	FY 2076-77	FY 2077-78	FY 2078-79	FY 2079-80	FY 2080-81	FY 2081-82	FY 2082-83	FY 2083-84	FY 2084-85	FY 2085-86	FY 2086-87	FY 2087-88	FY 2088-89	FY 2089-90	FY 2090-91	FY 2091-92	FY 2092-93	FY 2093-94	FY 2094-95	FY 2095-96	FY 2096-97	FY 2097-98	FY 2098-99	FY 2099-00	FY 2100-01	FY 2101-02	FY 2102-03	FY 2103-04	FY 2104-05	FY 2105-06	FY 2106-07	FY 2107-08	FY 2108-09	FY 2109-10	FY 2110-11	FY 2111-12	FY 2112-13	FY 2113-14	FY 2114-15	FY 2115-16	FY 2116-17	FY 2117-18	FY 2118-19	FY 2119-20	FY 2120-21	FY 2121-22	FY 2122-23	FY 2123-24	FY 2124-25	FY 2125-26	FY 2126-27	FY 2127-28	FY 2128-29	FY 2129-30	FY 2130-31	FY 2131-32	FY 2132-33	FY 2133-34	FY 2134-35	FY 2135-36	FY 2136-37	FY 2137-38	FY 2138-39	FY 2139-40	FY 2140-41	FY 2141-42	FY 2142-43	FY 2143-44	FY 2144-45	FY 2145-46	FY 2146-47	FY 2147-48	FY 2148-49	FY 2149-50	FY 2150-51	FY 2151-52	FY 2152-53	FY 2153-54	FY 2154-55	FY 2155-56	FY 2156-57	FY 2157-58	FY 2158-59	FY 2159-60	FY 2160-61	FY 2161-62	FY 2162-63	FY 2163-64	FY 2164-65	FY 2165-66	FY 2166-67	FY 2167-68	FY 2168-69	FY 2169-70	FY 2170-71	FY 2171-72	FY 2172-73	FY 2173-74	FY 2174-75	FY 2175-76	FY 2176-77	FY 2177-78	FY 2178-79	FY 2179-80	FY 2180-81	FY 2181-82	FY 2182-83	FY 2183-84	FY 2184-85	FY 2185-86	FY 2186-87	FY 2187-88	FY 2188-89	FY 2189-90	FY 2190-91	FY 2191-92	FY 2192-93	FY 2193-94	FY 2194-95	FY 2195-96	FY 2196-97	FY 2197-98	FY 2198-99	FY 2199-00	FY 2200-01	FY 2201-02	FY 2202-03	FY 2203-04	FY 2204-05	FY 2205-06	FY 2206-07	FY 2207-08	FY 2208-09	FY 2209-10	FY 2210-11	FY 2211-12	FY 2212-13	FY 2213-14	FY 2214-15	FY 2215-16	FY 2216-17	FY 2217-18	FY 2218-19	FY 2219-20	FY 2220-21	FY 2221-22	FY 2222-23	FY 2223-24	FY 2224-25	FY 2225-26	FY 2226-27	FY 2227-28	FY 2228-29	FY 2229-30	FY 2230-31	FY 2231-32	FY 2232-33	FY 2233-34	FY 2234-35	FY 2235-36	FY 2236-37	FY 2237-38	FY 2238-39	FY 2239-40	FY 2240-41	FY 2241-42	FY 2242-43	FY 2243-44	FY 2244-45	FY 2245-46	FY 2246-47	FY 2247-48	FY 2248-49	FY 2249-50	FY 2250-51	FY 2251-52	FY 2252-53	FY 2253-54	FY 2254-55	FY 2255-56	FY 2256-57	FY 2257-58	FY 2258-59	FY 2259-60	FY 2260-61	FY 2261-62	FY 2262-63	FY 2263-64	FY 2264-65	FY 2265-66	FY 2266-67	FY 2267-68	FY 2268-69	FY 2269-70	FY 2270-71	FY 2271-72	FY 2272-73	FY 2273-74	FY 2274-75	FY 2275-76	FY 2276-77	FY 2277-78	FY 2278-79	FY 2279-80	FY 2280-81	FY 2281-82	FY 2282-83	FY 2283-84	FY 2284-85	FY 2285-86	FY 2286-87	FY 2287-88	FY 2288-89	FY 2289-90	FY 2290-91	FY 2291-92	FY 2292-93	FY 2293-94	FY 2294-95	FY 2295-96	FY 2296-97
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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OR&M Expenses	Rs Lakh		57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh		32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	
Interest on Loan	Rs Lakh		50.70	47.21	43.71	40.21	36.72	33.22	29.72	26.23	22.73	19.23	15.74	12.24	8.74	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Interest on working Capital	Rs Lakh		30.88	31.84	32.84	33.88	34.96	36.08	37.25	38.46	39.73	41.04	42.40	43.82	45.29	46.82	48.41	49.72	51.51	53.37	55.30	57.30	59.57	61.73	63.96	66.28	68.69	
Return on Equity	Rs Lakh		35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	
Total Fixed Cost	Rs Lakh		207.15	207.64	208.32	209.21	210.32	211.66	213.23	215.06	217.15	219.51	222.17	225.13	228.42	232.04	236.01	223.17	231.47	240.18	249.32	258.92	278.70	289.27	300.36	312.00	324.21	

Tariff Components (Variable Charges)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh		418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	R\$/kWh	1.44		0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11
Per Unit Depreciation	R\$/kWh	0.46		0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Per unit Int on term loan	R\$/kWh	0.41		0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.64		0.49	0.50	0.52	0.54	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.72	0.74	0.77	0.79	0.82	0.85	0.88	0.91	0.94	0.98	1.01	1.05	1.09
Per unit RoE	R\$/kWh	0.57		0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.71	0.71	0.71	0.71	0.71
PU Tariff Components (Fixed)	R\$/kWh	3.53		3.28	3.29	3.30	3.31	3.33	3.35	3.38	3.41	3.44	3.48	3.52	3.57	3.62	3.68	3.74	3.54	3.67	3.81	3.95	4.10	4.42	4.58	4.76	4.94	5.14
PU Tariff Components (Variable)	R\$/kWh	8.86		6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47	14.97
PU Tariff Components (Total)	R\$/kWh	12.40		9.92	10.15	10.40	10.66	10.93	11.21	11.51	11.82	12.14	12.48	12.83	13.20	13.59	13.99	14.41	14.57	15.08	15.61	16.17	16.74	17.49	18.11	18.75	19.42	20.11

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Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price		Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost		Rs Lakh			433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.59	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04	977.65

Levelised Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Discount Factors					1.00	0.92	0.84	0.77	0.71	0.65	0.59	0.54	0.50	0.46	0.42	0.38	0.35	0.32	0.30	0.27	0.25	0.23	0.21	0.19	0.18	0.16	0.15	0.14	0.12
Levelised Tariff (Total)	Rs/kWh	12.80																											
Discount Rate	9.10%																												

4.4 Mainland: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	744.00
			Capital Cost	Rs. Lakh	744.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	744.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	520.80
			Total equity amount	Rs. Lakh	223.20
			Loan Amount	Rs. Lakh	520.80
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	223.20
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

FY 2024-25

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	
Interest on Loan	Rs Lakh	54.12	50.39	46.66	42.92	39.19	35.46	31.73	27.99	24.26	20.53	16.80	13.06	9.33	5.60	1.87	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Interest on working Capital	Rs Lakh	30.05	30.97	31.92	32.92	33.95	35.03	36.15	37.31	38.52	39.78	41.08	42.44	43.85	45.32	46.85	48.07	49.79	51.58	53.44	55.37	57.58	59.65	61.81	64.04	66.37	
Return on Equity	Rs Lakh	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	48.03	48.03	48.03	48.03	
Total Fixed Cost	Rs Lakh	211.45	211.51	211.76	212.20	212.85	213.72	214.81	216.15	217.73	219.58	221.71	224.12	226.85	229.89	233.27	218.66	226.57	234.87	243.58	252.72	272.69	282.76	293.33	304.41	316.05	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs/MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	
Biomass Cost	Rs Lakh	404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.40	0.89	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03
Per Unit Depreciation	R\$/kWh	0.51	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Per Unit Int on term loan	R\$/kWh	0.45	0.88	0.82	0.76	0.70	0.64	0.57	0.51	0.45	0.39	0.33	0.27	0.21	0.15	0.09	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	R\$/kWh	0.64	0.49	0.50	0.52	0.53	0.55	0.57	0.59	0.60	0.62	0.64	0.67	0.69	0.71	0.73	0.76	0.78	0.81	0.84	0.87	0.90	0.93	0.97	1.00	1.04	1.08
Per unit RoE	R\$/kWh	0.63	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.78	0.78	0.78	0.78	0.78
PU Tariff Components (Fixed)	R\$/kWh	3.62	3.43	3.43	3.43	3.44	3.45	3.46	3.48	3.50	3.53	3.56	3.59	3.63	3.68	3.73	3.78	3.84	3.95	4.10	4.42	4.58	4.78	4.95	5.12	5.38	5.72
PU Tariff Components (Variable)	R\$/kWh	8.76	6.56	6.78	7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.49	12.92	13.37	13.83	14.31	14.80
PU Tariff Components (Total)	R\$/kWh	12.38	9.99	10.21	10.45	10.70	10.96	11.23	11.52	11.82	12.13	12.46	12.80	13.16	13.53	13.92	14.32	14.45	14.96	15.48	16.02	16.59	17.34	17.95	18.59	19.24	19.92

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	FY 2025-26	FY 2026-27	FY 2027-28
Operating Expenses	\$1,900,000	\$1,900,000	\$1,900,000
Capital Expenditures	\$1,000,000	\$1,000,000	\$1,000,000
Total Available Funds	\$2,900,000	\$2,900,000	\$2,900,000
Revenue	\$2,900,000	\$2,900,000	\$2,900,000
Expenses	\$2,900,000	\$2,900,000	\$2,900,000
Surplus/Deficit	\$0	\$0	\$0

[illegible]

Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OR&M Expenses	Rs Lakh		57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh		34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88
Interest on Loan	Rs Lakh		54.12	50.39	46.66	42.92	39.19	35.46	31.73	27.99	24.26	20.53	16.80	13.06	9.33	5.60	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		31.04	32.00	32.99	34.03	35.10	36.22	37.39	38.59	39.85	41.16	42.52	43.93	45.40	46.92	48.51	49.79	51.58	53.44	55.37	57.37	59.65	61.81	64.04	66.37	68.78	
Return on Equity	Rs Lakh		37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86
Total Fixed Cost	Rs Lakh		215.32	215.57	216.01	216.66	217.53	218.62	219.96	221.54	223.39	225.52	227.93	230.65	233.70	237.08	240.81	226.57	234.87	243.58	252.72	262.32	282.76	293.33	304.41	316.05	328.27	

Tariff Components (Variable Charges)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh		418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.47		0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19
Per Unit Depreciation	Rs/kWh	0.51		0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Per Unit Int on term loan	Rs/kWh	0.45		0.88	0.82	0.76	0.70	0.64	0.57	0.51	0.45	0.39	0.33	0.27	0.21	0.15	0.09	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	Rs/kWh	0.66		0.50	0.52	0.53	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.71	0.74	0.76	0.79	0.81	0.84	0.87	0.90	0.93	0.97	1.00	1.04	1.08	1.11
Per unit RoE	Rs/kWh	0.63		0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.78	0.78	0.78	0.78	
PU Tariff Components (Fixed)	Rs/kWh	3.72		3.49	3.49	3.50	3.51	3.52	3.54	3.56	3.59	3.62	3.65	3.69	3.74	3.79	3.84	3.90	3.67	3.81	3.95	4.10	4.25	4.58	4.75	4.93	5.12	5.32
PU Tariff Components (Variable)	Rs/kWh	9.06		6.78	7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.49	12.92	13.37	13.83	14.31	14.80	15.31
PU Tariff Components (Total)	Rs/kWh	12.78		10.27	10.51	10.76	11.02	11.30	11.58	11.88	12.19	12.52	12.86	13.22	13.59	13.98	14.39	14.81	14.96	15.48	16.02	16.59	17.18	17.95	18.59	19.24	19.92	20.63

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4.5 Mainland: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Atmospheric Fluidised Bed Combustion (AFBC) boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	638.00
			Capital Cost	Rs. Lakh	638.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	638.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	446.60
			Total equity amount	Rs. Lakh	191.40
			Loan Amount	Rs. Lakh	446.60
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	191.40
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

FY 2024-25

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on loan	Rs Lakh	46.41	43.21	40.01	36.81	33.61	30.41	27.21	24.01	20.81	17.60	14.40	11.20	8.00	4.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	29.24	30.15	31.10	32.09	33.12	34.19	35.30	36.46	37.66	38.90	40.20	41.55	42.95	44.41	45.92	47.18	48.88	50.64	52.47	54.37	56.52	58.57	60.69	62.90	65.18	
Return on Equity	Rs Lakh	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	41.19	41.19	41.19	41.19	41.19	41.19
Total Fixed Cost	Rs Lakh	192.59	193.18	193.95	194.92	196.09	197.49	199.11	200.96	203.07	205.44	208.09	211.03	214.27	217.83	221.73	210.25	218.14	226.42	235.10	244.21	262.68	272.71	283.25	294.30	305.91	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs./MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	397.52	411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.37	0.87	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96
Per Unit Depreciation	R\$/kWh	0.42	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	R\$/kWh	0.38	0.74	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.61	0.46	0.48	0.49	0.51	0.52	0.54	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.73	0.75	0.77	0.80	0.83	0.86	0.90	0.93	0.96	1.00	1.03
Per unit RoE	R\$/kWh	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.65	0.65	0.65	0.65	0.65
PU Tariff Components (Fixed)	R\$/kWh	3.31	3.05	3.06	3.07	3.09	3.11	3.13	3.15	3.18	3.22	3.26	3.30	3.34	3.39	3.45	3.51	3.53	3.59	3.72	3.87	4.16	4.32	4.49	4.66	4.85	5.05
PU Tariff Components (Variable)	R\$/kWh	8.41	6.30	6.52	6.74	6.97	7.21	7.46	7.72	7.99	8.26	8.55	8.84	9.15	9.46	9.79	10.13	10.48	10.84	11.21	11.60	12.00	12.41	12.84	13.28	13.74	14.22
PU Tariff Components (Total)	R\$/kWh	11.72	9.35	9.58	9.81	10.06	10.32	10.59	10.87	11.17	11.48	11.80	12.14	12.49	12.86	13.24	13.64	13.81	14.29	14.80	15.32	15.87	16.57	17.16	17.77	18.40	19.06

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	FY 2025-26	FY 2026-27	FY 2027-28
Operating Expenses	\$1,900,000	\$1,900,000	\$1,900,000
Capital Expenditures	\$1,000,000	\$1,000,000	\$1,000,000
Total Available Funds	\$2,900,000	\$2,900,000	\$2,900,000
Revenue	\$2,900,000	\$2,900,000	\$2,900,000
Expenses	\$2,900,000	\$2,900,000	\$2,900,000
Surplus/Deficit	\$0	\$0	\$0

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Arifit Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh		57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh		29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh		46.41	43.21	40.01	36.81	33.61	30.41	27.21	24.01	20.81	17.60	14.40	11.20	8.00	4.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		30.22	31.17	32.16	33.19	34.25	35.37	36.52	37.72	38.97	40.27	41.61	43.02	44.47	45.99	47.56	48.88	50.64	52.47	54.37	56.34	58.57	60.69	62.90	65.18	67.56
Return on Equity	Rs Lakh		32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47	32.47
Total Fixed Cost	Rs Lakh		196.44	197.22	198.18	199.36	200.75	202.37	204.23	206.34	208.71	211.36	214.30	217.54	221.10	225.00	229.25	218.14	226.42	235.10	244.21	253.78	272.71	283.25	294.30	305.91	318.09

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs./MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.38	9946.54	
Biomass Cost	Rs Lakh		397.52	411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.44	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11	
Per Unit Depreciation	Rs/kWh	0.42	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	Rs/kWh	0.38	0.74	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.63	0.48	0.49	0.51	0.53	0.54	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.73	0.75	0.77	0.80	0.83	0.86	0.89	0.93	0.96	1.00	1.03	1.07	
Per unit RoE	Rs/kWh	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.65	0.65	0.65	0.65	0.65	
PU Tariff Components (Fixed)	Rs/kWh	3.40	3.11	3.12	3.14	3.16	3.18	3.21	3.24	3.27	3.31	3.35	3.40	3.45	3.50	3.56	3.63	3.66	3.59	3.72	3.87	4.02	4.32	4.49	4.66	4.85	5.04	
PU Tariff Components (Variable)	Rs/kWh	8.70	6.52	6.74	6.97	7.21	7.46	7.72	7.99	8.26	8.55	8.84	9.15	9.46	9.79	10.13	10.48	10.84	11.21	11.60	12.00	12.41	12.84	13.28	13.74	14.22	14.71	
PU Tariff Components (Total)	Rs/kWh	12.10	9.63	9.87	10.11	10.37	10.64	10.93	11.22	11.53	11.85	12.19	12.54	12.91	13.29	13.69	14.11	14.29	14.80	15.32	15.87	16.43	17.16	17.77	18.40	19.06	19.75	

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Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh			425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17	960.19

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4.6 Mainland: Other than Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using AFBC boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	685.00
			Capital Cost	Rs. Lakh	685.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	685.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	479.50
			Total equity amount	Rs. Lakh	205.50
			Loan Amount	Rs. Lakh	479.50
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	205.50
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
Interest on Loan	Rs Lakh	49.83	46.39	42.96	39.52	36.08	32.65	29.21	25.77	22.34	18.90	15.46	12.03	8.59	5.15	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	29.40	30.31	31.26	32.24	33.26	34.33	35.43	36.59	37.78	39.02	40.32	41.66	43.06	44.51	46.02	47.25	48.95	50.71	52.54	54.44	56.60	58.65	60.77	62.98	65.26	
Return on Equity	Rs Lakh	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	44.22	44.22	44.22	44.22	44.22
Total Fixed Cost	Rs Lakh	200.76	201.10	201.64	202.36	203.30	204.45	205.83	207.45	209.32	211.45	213.85	216.55	219.55	222.87	226.53	213.65	221.54	229.82	238.50	247.61	266.73	276.77	287.30	298.36	309.96	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs./MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	
Biomass Cost	Rs Lakh	397.52	411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.40	0.89	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03
Per Unit Depreciation	R\$/kWh	0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
Per Unit Int on term loan	R\$/kWh	0.42	0.81	0.75	0.70	0.64	0.58	0.53	0.47	0.42	0.36	0.31	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.63	0.48	0.49	0.51	0.52	0.54	0.56	0.57	0.59	0.61	0.63	0.65	0.68	0.70	0.72	0.75	0.77	0.79	0.82	0.85	0.88	0.92	0.95	0.98	1.02	1.06
Per unit RoE	R\$/kWh	0.58	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.72	0.72	0.72	0.72	0.72	0.72
PU Tariff Components (Fixed)	R\$/kWh	3.48	3.25	3.26	3.27	3.28	3.29	3.31	3.34	3.36	3.39	3.43	3.47	3.51	3.56	3.61	3.67	3.66	3.59	3.72	3.86	4.01	4.32	4.48	4.66	4.83	5.02
PU Tariff Components (Variable)	R\$/kWh	8.61	6.44	6.66	6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54
PU Tariff Components (Total)	R\$/kWh	12.09	9.69	9.92	10.16	10.41	10.67	10.95	11.23	11.53	11.84	12.17	12.51	12.86	13.23	13.62	14.03	14.18	14.67	15.19	15.73	16.28	17.02	17.62	18.24	18.89	19.56

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FY 2025-26	

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OR&M Expenses	Rs Lakh		57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh		31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
Interest on Loan	Rs Lakh		49.83	46.39	42.96	39.52	36.08	32.65	29.21	25.77	22.34	18.90	15.46	12.03	8.59	5.15	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		30.38	31.33	32.31	33.33	34.40	35.50	36.66	37.85	39.09	40.39	41.73	43.13	44.58	46.09	47.65	48.95	50.71	52.54	54.44	56.41	58.65	60.77	62.98	65.26	67.64	
Return on Equity	Rs Lakh		34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86
Total Fixed Cost	Rs Lakh		204.61	205.14	205.87	206.81	207.96	209.34	210.95	212.82	214.95	217.36	220.06	223.06	226.38	230.04	234.05	221.54	229.82	238.50	247.61	257.18	276.77	287.30	298.36	309.96	322.14	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh		11.24	42.43	44.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	R\$/kWh	1.47		0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19
Per Unit Depreciation	R\$/kWh	0.47		0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Per Unit Int on term loan	R\$/kWh	0.42		0.81	0.75	0.70	0.64	0.58	0.53	0.47	0.42	0.36	0.31	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.65		0.49	0.51	0.52	0.54	0.56	0.58	0.59	0.61	0.63	0.65	0.68	0.70	0.72	0.75	0.77	0.79	0.82	0.85	0.88	0.91	0.95	0.98	1.02	1.06	1.10
Per unit RoE	R\$/kWh	0.58		0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.72	0.72	0.72	0.72	0.72
PU Tariff Components (Fixed)	R\$/kWh	3.58		3.32	3.32	3.34	3.35	3.37	3.39	3.42	3.45	3.48	3.52	3.57	3.61	3.67	3.73	3.79	3.59	3.72	3.86	4.01	4.17	4.48	4.66	4.83	5.02	5.22
PU Tariff Components (Variable)	R\$/kWh	8.90		6.66	6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54	15.04
PU Tariff Components (Total)	R\$/kWh	12.48		9.98	10.22	10.47	10.73	11.00	11.29	11.59	11.90	12.22	12.56	12.92	13.29	13.68	14.08	14.51	14.67	15.19	15.73	16.28	16.86	17.62	18.24	18.89	19.56	20.26

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FY 2026-27

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh				60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90
Depreciation	Rs Lakh				31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
Interest on Loan	Rs Lakh				49.83	46.39	42.96	39.52	36.08	32.65	29.21	25.77	22.34	18.90	15.46	12.03	8.59	5.15	1.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh				31.40	32.38	33.40	34.47	35.58	36.73	37.92	39.16	40.46	41.80	43.20	44.65	46.16	47.72	49.33	50.71	52.54	54.44	56.41	58.46	60.77	62.98	65.26	67.64	70.11
Return on Equity	Rs Lakh				34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86
Total Fixed Cost	Rs Lakh				208.65	209.38	210.31	211.46	212.84	214.46	216.33	218.46	220.87	223.56	226.57	229.89	233.54	237.55	241.93	229.82	238.50	247.61	257.18	267.21	287.30	298.36	309.96	322.14	334.93

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Base Price	Rs/MT		4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69			
Biomass Cost	Rs Lakh		425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17	960.19			

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.55			0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19	3.35
Per Unit Depreciation	Rs/kWh	0.47			0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Per Unit Int on term loan	Rs/kWh	0.42			0.81	0.75	0.70	0.64	0.58	0.53	0.47	0.42	0.36	0.31	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.67			0.51	0.52	0.54	0.56	0.58	0.60	0.61	0.63	0.66	0.68	0.70	0.72	0.75	0.77	0.80	0.82	0.85	0.88	0.91	0.95	0.98	1.02	1.06	1.10	1.14
Per unit RoE	Rs/kWh	0.58			0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.72	0.72	0.72	0.72	0.72
PU Tariff Components (Fixed)	Rs/kWh	3.68			3.38	3.39	3.41	3.43	3.45	3.48	3.51	3.54	3.58	3.62	3.67	3.73	3.78	3.85	3.92	3.72	3.86	4.01	4.17	4.33	4.66	4.83	5.02	5.22	5.45
PU Tariff Components (Variable)	Rs/kWh	9.21			6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54	15.04	15.55
PU Tariff Components (Total)	Rs/kWh	12.89			10.27	10.52	10.79	11.06	11.34	11.64	11.95	12.28	12.62	12.98	13.35	13.74	14.14	14.56	15.00	15.19	15.73	16.28	16.86	17.46	18.24	18.89	19.56	20.26	20.99

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4.7 Mainland: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using AFBC boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	697.00
			Capital Cost	Rs. Lakh	697.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	697.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	487.90
			Total equity amount	Rs. Lakh	209.10
			Loan Amount	Rs. Lakh	487.90
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	209.10
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94	13.94
Interest on Loan	Rs Lakh	50.70	47.21	43.71	40.21	36.72	33.22	29.72	26.23	22.73	19.23	15.74	12.24	8.74	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	29.44	30.35	31.30	32.28	33.30	34.36	35.47	36.62	37.81	39.05	40.35	41.69	43.08	44.53	46.04	47.26	48.96	50.73	52.56	54.46	56.62	58.67	60.79	63.00	65.29	
Return on Equity	Rs Lakh	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	45.00	45.00	45.00	45.00	45.00	45.00
Total Fixed Cost	Rs Lakh	202.84	203.13	203.60	204.27	205.14	206.23	207.55	209.10	210.91	212.98	215.32	217.96	220.90	224.16	227.76	214.52	222.41	230.68	239.37	248.48	267.77	277.80	288.34	299.39	311.00	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs./MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	397.52	411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.37	0.87	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96
Per Unit Depreciation	R\$/kWh	0.46	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
Per Unit Int on term loan	R\$/kWh	0.41	0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Per unit interest on working capital	R\$/kWh	0.61	0.47	0.48	0.50	0.51	0.53	0.54	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.71	0.73	0.75	0.78	0.80	0.83	0.86	0.90	0.93	0.96	1.00	
Per unit RoE	R\$/kWh	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.71	0.71	0.71	0.71	
PU Tariff Components (Fixed)	R\$/kWh	3.43	3.21	3.22	3.23	3.24	3.25	3.27	3.29	3.31	3.34	3.37	3.41	3.45	3.50	3.55	3.61	3.40	3.52	3.65	3.79	3.94	4.24	4.40	4.57	4.74	
PU Tariff Components (Variable)	R\$/kWh	8.41	6.30	6.52	6.74	6.97	7.21	7.46	7.72	7.99	8.26	8.55	8.84	9.15	9.46	9.79	10.13	10.48	10.84	11.21	11.60	12.00	12.41	12.84	13.28	13.74	
PU Tariff Components (Total)	R\$/kWh	11.84	9.51	9.73	9.97	10.21	10.46	10.73	11.01	11.30	11.60	11.92	12.25	12.60	12.96	13.34	13.73	13.87	14.36	14.87	15.39	15.93	16.65	17.24	17.85	18.48	

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh		57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh		32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	
Interest on Loan	Rs Lakh		50.70	47.21	43.71	40.21	36.72	33.22	29.72	26.23	22.73	19.23	15.74	12.24	8.74	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Interest on working Capital	Rs Lakh		30.42	31.37	32.35	33.37	34.44	35.54	36.69	37.88	39.13	40.42	41.76	43.15	44.60	46.11	47.68	48.96	50.73	52.56	54.46	56.43	58.67	60.79	63.00	65.29	67.66	
Return on Equity	Rs Lakh		35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	35.47	
Total Fixed Cost	Rs Lakh		206.70	207.17	207.83	208.71	209.80	211.12	212.67	214.48	216.55	218.89	221.53	224.47	227.73	231.32	235.27	222.41	230.68	239.37	248.48	258.04	277.80	288.34	299.39	311.00	323.18	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT			4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh			411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	R\$/kWh	1.44		0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11
Per Unit Depreciation	R\$/kWh	0.46		0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Per Unit Int on term loan	R\$/kWh	0.41		0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.63		0.48	0.50	0.51	0.53	0.55	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.71	0.73	0.76	0.78	0.80	0.83	0.86	0.89	0.93	0.96	1.00	1.03	1.07
Per unit RoE	R\$/kWh	0.57		0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
PU Tariff Components (Fixed)	R\$/kWh	3.52		3.27	3.28	3.29	3.31	3.32	3.34	3.37	3.40	3.43	3.47	3.51	3.56	3.61	3.67	3.73	3.82	3.65	3.79	3.94	4.09	4.40	4.57	4.74	4.93	5.12
PU Tariff Components (Variable)	R\$/kWh	8.70		6.52	6.74	6.97	7.21	7.46	7.72	7.99	8.26	8.55	8.84	9.15	9.46	9.79	10.13	10.48	10.84	11.21	11.60	12.00	12.41	12.84	13.28	13.74	14.22	14.71
PU Tariff Components (Total)	R\$/kWh	12.23		9.79	10.02	10.27	10.52	10.79	11.06	11.36	11.66	11.98	12.31	12.66	13.02	13.40	13.79	14.20	14.36	14.87	15.39	15.93	16.50	17.24	17.85	18.48	19.14	19.83

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Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs/MT				4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh				425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17	960.19

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4.8 Mainland: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using AFBC boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	744.00
			Capital Cost	Rs. Lakh	744.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	744.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	520.80
			Total equity amount	Rs. Lakh	223.20
			Loan Amount	Rs. Lakh	520.80
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	223.20
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	
Interest on loan	Rs Lakh	54.12	50.39	46.66	42.92	39.19	35.46	31.73	27.99	24.26	20.53	16.80	13.06	9.33	5.60	1.87	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Interest on working Capital	Rs Lakh	29.60	30.51	31.45	32.43	33.45	34.50	35.60	36.75	37.94	39.17	40.46	41.80	43.19	44.63	46.14	47.33	49.03	50.79	52.63	54.52	56.70	58.75	60.87	63.08	65.37	
Return on Equity	Rs Lakh	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	48.03	48.03	48.03	48.03	
Total Fixed Cost	Rs Lakh	211.01	211.05	211.28	211.71	212.34	213.19	214.27	215.59	217.15	218.98	221.09	223.48	226.18	229.20	232.55	217.92	225.81	234.08	242.77	251.88	271.82	281.86	292.39	303.45	315.05	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs./MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	397.52	411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.40	0.89	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03
Per Unit Depreciation	R\$/kWh	0.51	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Per Unit Int on term loan	R\$/kWh	0.45	0.88	0.82	0.76	0.70	0.64	0.57	0.51	0.45	0.39	0.33	0.27	0.21	0.15	0.09	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	R\$/kWh	0.63	0.48	0.49	0.51	0.53	0.54	0.56	0.58	0.60	0.61	0.63	0.66	0.68	0.70	0.72	0.75	0.77	0.79	0.82	0.85	0.88	0.92	0.95	0.99	1.02	1.06
Per unit RoE	R\$/kWh	0.63	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.78	0.78	0.78	0.78	0.78
PU Tariff Components (Fixed)	R\$/kWh	3.61	3.42	3.42	3.42	3.43	3.44	3.45	3.47	3.49	3.52	3.55	3.58	3.62	3.67	3.71	3.77	3.53	3.66	3.79	3.93	4.08	4.40	4.57	4.74	4.92	5.11
PU Tariff Components (Variable)	R\$/kWh	8.61	6.44	6.66	6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54
PU Tariff Components (Total)	R\$/kWh	12.22	9.86	10.08	10.32	10.56	10.82	11.09	11.37	11.66	11.97	12.29	12.63	12.98	13.34	13.73	14.12	14.25	14.74	15.26	15.80	16.35	17.10	17.70	18.32	18.97	19.64

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	FY 2025-26	FY 2026-27	FY 2027-28
Operating Expenses	\$1,900,000	\$1,900,000	\$1,900,000
Capital Expenditures	\$1,000,000	\$1,000,000	\$1,000,000
Total Available Funds	\$2,900,000	\$2,900,000	\$2,900,000
Revenue	\$2,900,000	\$2,900,000	\$2,900,000
Expenses	\$2,900,000	\$2,900,000	\$2,900,000
Surplus/Deficit	\$0	\$0	\$0

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh			57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh			34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88
Interest on Loan	Rs Lakh			54.12	50.39	46.66	42.92	39.19	35.46	31.73	27.99	24.26	20.53	16.80	13.06	9.33	5.60	1.87	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh			30.58	31.53	32.50	33.52	34.58	35.68	36.82	38.01	39.25	40.54	41.87	43.26	44.71	46.21	47.77	49.03	50.79	52.63	54.52	56.50	58.75	60.87	63.08	65.37	67.74
Return on Equity	Rs Lakh			37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86	37.86
Total Fixed Cost	Rs Lakh			214.86	215.09	215.52	216.15	217.00	218.08	219.40	220.96	222.79	224.89	227.29	229.99	233.01	236.36	240.07	225.81	234.08	242.77	251.88	261.44	281.86	292.39	303.45	315.05	327.23

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5960.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh		11.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.47		0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19
Per Unit Depreciation	Rs/kWh	0.51		0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Per Unit Int on term loan	Rs/kWh	0.45		0.88	0.82	0.76	0.70	0.64	0.57	0.51	0.45	0.39	0.33	0.27	0.21	0.15	0.09	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	Rs/kWh	0.65		0.50	0.51	0.53	0.54	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.75	0.77	0.79	0.82	0.85	0.88	0.92	0.95	0.99	1.02	1.06	1.10
Per unit RoE	Rs/kWh	0.63		0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.78	0.78	0.78	0.78	0.78
PU Tariff Components (Fixed)	Rs/kWh	3.71		3.48	3.49	3.49	3.50	3.52	3.53	3.56	3.58	3.61	3.64	3.68	3.73	3.78	3.83	3.89	3.66	3.79	3.93	4.08	4.24	4.57	4.74	4.92	5.11	5.30
PU Tariff Components (Variable)	Rs/kWh	8.90		6.66	6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54	15.04
PU Tariff Components (Total)	Rs/kWh	12.61		10.15	10.38	10.62	10.88	11.15	11.43	11.72	12.03	12.35	12.69	13.04	13.40	13.79	14.19	14.60	14.74	15.26	15.80	16.35	16.93	17.70	18.32	18.97	19.64	20.34

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Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs/MT				4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh				425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17	960.19

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4.9 Island: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/ MW	638.00
			Capital Cost	Rs. Lakh	638.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	638.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	446.60
			Total equity amount	Rs. Lakh	191.40
			Loan Amount	Rs. Lakh	446.60
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	191.40
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/ MW	54.70
		O&M Expenses p.a.		Rs. Lakh	

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh	50.73	47.23	43.73	40.23	36.73	33.24	29.74	26.24	22.74	19.24	15.74	12.24	8.75	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	32.40	33.41	34.45	35.54	36.66	37.84	39.05	40.32	41.64	43.01	44.43	45.91	47.45	49.05	50.71	52.10	53.97	55.91	57.93	60.02	62.41	64.66	67.00	69.43	71.95	
Return on Equity	Rs Lakh	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	47.07	47.07	47.07	47.07	47.07
Total Fixed Cost	Rs Lakh	204.71	205.09	205.66	206.42	207.40	208.60	210.03	211.70	213.63	215.82	218.30	221.07	224.15	227.56	231.31	219.81	227.87	236.33	245.19	254.50	274.45	284.69	295.44	306.72	318.56	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs./MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.34	0.87	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96
Per Unit Depreciation	R\$/kWh	0.43	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	R\$/kWh	0.43	0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.66	0.51	0.53	0.55	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.73	0.75	0.78	0.80	0.83	0.86	0.89	0.92	0.95	0.99	1.02	1.06	1.10	1.14
Per unit RoE	R\$/kWh	0.60	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.75	0.75	0.75	0.75
PU Tariff Components (Fixed)	R\$/kWh	3.46	3.24	3.25	3.26	3.27	3.29	3.31	3.33	3.35	3.38	3.42	3.46	3.50	3.55	3.61	3.66	3.48	3.61	3.74	3.88	4.03	4.35	4.51	4.68	4.86	5.05
PU Tariff Components (Variable)	R\$/kWh	8.44	6.41	6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47
PU Tariff Components (Total)	R\$/kWh	11.91	9.66	9.88	10.12	10.37	10.63	10.90	11.19	11.49	11.80	12.12	12.46	12.82	13.19	13.57	13.98	14.15	14.64	15.16	15.69	16.25	16.99	17.58	18.21	18.85	19.52

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Arifit Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh		57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh		29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh		50.73	47.23	43.73	40.23	36.73	33.24	29.74	26.24	22.74	19.24	15.74	12.24	8.75	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		33.49	34.53	35.61	36.74	37.91	39.13	40.40	41.72	43.09	44.51	45.99	47.53	49.13	50.79	52.51	53.97	55.91	57.93	60.02	62.19	64.66	67.00	69.43	71.95	74.57
Return on Equity	Rs Lakh		37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11
Total Fixed Cost	Rs Lakh		208.67	209.23	210.00	210.98	212.18	213.61	215.28	217.21	219.40	221.88	224.65	227.73	231.14	234.88	238.99	227.87	236.33	245.19	254.50	264.26	284.69	295.44	306.72	318.56	330.98

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT			4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh			418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.41		0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11
Per Unit Depreciation	Rs/kWh	0.43		0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	Rs/kWh	0.43		0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.69		0.53	0.55	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.71	0.73	0.75	0.78	0.80	0.83	0.86	0.89	0.92	0.95	0.99	1.02	1.06	1.10	1.14	1.18
Per unit RoE	Rs/kWh	0.60		0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.75	0.75	0.75	0.75	0.75
PU Tariff Components (Fixed)	Rs/kWh	3.55		3.31	3.32	3.33	3.34	3.36	3.38	3.41	3.44	3.48	3.52	3.56	3.61	3.66	3.72	3.79	3.61	3.74	3.88	4.03	4.19	4.51	4.68	4.86	5.05	5.24
PU Tariff Components (Variable)	Rs/kWh	8.74		6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47	14.97
PU Tariff Components (Total)	Rs/kWh	12.29		9.94	10.18	10.43	10.69	10.96	11.24	11.54	11.85	12.18	12.52	12.87	13.24	13.63	14.03	14.45	14.64	15.16	15.69	16.25	16.82	17.58	18.21	18.85	19.52	20.22

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh			60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90
Depreciation	Rs Lakh			29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77
Interest on Loan	Rs Lakh			50.73	47.23	43.73	40.23	36.73	33.24	29.74	26.24	22.74	19.24	15.74	12.24	8.75	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh			34.61	35.69	36.82	37.99	39.21	40.48	41.79	43.16	44.59	46.07	47.60	49.20	50.86	52.59	54.39	55.91	57.93	60.02	62.19	64.44	67.00	69.43	71.95	74.57	77.28
Return on Equity	Rs Lakh			37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11
Total Fixed Cost	Rs Lakh			212.81	213.58	214.55	215.75	217.18	218.85	220.78	222.98	225.45	228.22	231.31	234.71	238.46	242.57	247.05	236.33	245.19	254.50	264.26	274.51	295.44	306.72	318.56	330.98	344.01

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs./MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh			433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04	977.65

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.48			0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11	3.28
Per Unit Depreciation	Rs/kWh	0.43			0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	Rs/kWh	0.43			0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.71			0.55	0.57	0.58	0.60	0.62	0.64	0.66	0.68	0.71	0.73	0.75	0.78	0.81	0.83	0.86	0.89	0.92	0.95	0.99	1.02	1.06	1.10	1.14	1.18	1.22
Per unit RoE	Rs/kWh	0.60			0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.75	0.75	0.75	0.75	0.75
PU Tariff Components (Fixed)	Rs/kWh	3.65			3.37	3.38	3.40	3.42	3.44	3.47	3.50	3.53	3.57	3.62	3.66	3.72	3.78	3.84	3.91	3.74	3.88	4.03	4.19	4.35	4.68	4.86	5.05	5.24	5.45
PU Tariff Components (Variable)	Rs/kWh	9.04			6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47	14.97	15.49
PU Tariff Components (Total)	Rs/kWh	12.69			10.23	10.48	10.74	11.02	11.30	11.60	11.91	12.24	12.57	12.93	13.30	13.69	14.09	14.51	14.95	15.16	15.69	16.25	16.82	17.42	18.21	18.85	19.52	20.22	20.94

Levelised Tariff	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Discount Factors				1.00	0.91	0.82	0.75	0.68	0.62	0.56	0.51	0.46	0.42	0.38	0.35	0.31	0.28	0.26	0.23	0.21	0.19	0.18	0.16	0.14	0.13	0.12	0.11	0.10
Levelised Tariff (Total)	Rs/kWh	12.69																										
Discount Rate	10.15%																											

4.10 Island: Other than Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	685.00
			Capital Cost	Rs. Lakh	685.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	685.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	479.50
			Total equity amount	Rs. Lakh	205.50
			Loan Amount	Rs. Lakh	479.50
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	205.50
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
ORM Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.70	31.70	31.70	31.70	31.70	31.70	31.70	31.70	31.70	
Interest on Loan	Rs Lakh	54.47	50.71	46.95	43.20	39.44	35.68	31.93	28.17	24.42	20.66	16.90	13.15	9.39	5.63	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Interest on working Capital	Rs Lakh	32.60	33.59	34.63	35.71	36.83	38.00	39.21	40.47	41.79	43.15	44.57	46.04	47.57	49.17	50.82	52.18	54.05	55.99	58.01	60.10	62.51	64.76	67.10	69.53	72.05	
Return on Equity	Rs Lakh	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	
Total Fixed Cost	Rs Lakh	213.57	213.68	213.99	214.49	215.20	216.14	217.30	218.71	220.38	222.31	224.52	227.03	229.85	232.99	236.48	223.57	231.63	240.08	248.95	258.26	278.96	289.20	299.95	311.24	323.06	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs/MT		4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.88	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Laldh		404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53

Per Unit Tariff Components		Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses		R\$/kWh	1.37	0.89	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03
Per Unit Depreciation		R\$/kWh	0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Per Unit Int on term loan		R\$/kWh	0.47	0.88	0.82	0.76	0.70	0.64	0.58	0.52	0.46	0.40	0.33	0.27	0.21	0.15	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital		R\$/kWh	0.68	0.63	0.54	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.75	0.77	0.80	0.82	0.85	0.88	0.91	0.94	0.97	1.01	1.05	1.09	1.13	1.17
Per unit Real		R\$/kWh	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
PU Tariff Components (Fixed)		R\$/kWh	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46
PU Tariff Components (Variable)		R\$/kWh	8.64	6.56	6.78	7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.48	12.93	13.37	13.83	14.31	14.88
PU Tariff Components (Total)		R\$/kWh	12.29	10.02	10.25	10.49	10.74	11.00	11.27	11.56	11.86	12.17	12.56	12.85	13.20	13.58	13.97	14.38	14.55	15.04	15.56	16.11	16.64	17.45	18.06	18.69	19.35	20.04

Leveled Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Discount Factors			1.00	0.91	0.82	0.75	0.68	0.62	0.56	0.51	0.46	0.42	0.38	0.35	0.33	0.28	0.26	0.22	0.21	0.19	0.18	0.16	0.14	0.13	0.12	0.11	0.10

Levelised Tariff (Total)	Ro/kWh	12.29
Discount Rate	10.15%	

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Tariff Components (Fixed charges)	Unit	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
ORM Expenses	Rs Lakh	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97
Interest on Loan	Rs Lakh	54.47	50.71	46.95	43.20	39.44	35.68	31.93	28.17	24.42	20.66	16.90	13.15	9.39	5.63	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	33.68	34.71	35.79	36.92	38.08	39.30	40.56	41.87	43.23	44.65	46.12	47.66	49.25	50.90	52.63	54.05	55.99	58.01	60.10	62.27	64.76	67.10	69.53	72.05	74.66
Return on Equity	Rs Lakh	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84
Total Fixed Cost	Rs Lakh	217.52	217.83	218.33	219.04	219.98	221.14	222.55	224.22	226.15	228.36	230.87	233.69	236.83	240.32	244.16	231.63	240.08	248.95	258.26	268.02	289.20	299.95	311.23	323.06	335.48

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.11	9614.83	9946.54
Biomass Cost	Rs Lakh		418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.04	913.53	945.04

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26																										
Per Unit O&M Expenses	R\$/kWh	1.44	0.93	0.98		1.03		1.09		1.14		1.20		1.27		1.33		1.40		1.46		1.56		1.64		1.72		1.81		1.91		2.01		2.12		2.23		2.34		2.47		2.60		2.73		2.88		3.03		3.19				
Per Unit Depreciation	R\$/kWh	0.47	0.52	0.52	0.52	0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52		0.52				
Per Unit Int on term loan	R\$/kWh	0.47	0.08	0.02		0.76		0.40		0.62		0.44		0.27		0.21		0.15		0.09		0.00		0.00		0.22		0.22		0.22		0.22		0.22		0.22		0.22		0.22		0.22		0.22		0.22		0.22		0.22				
Per Unit Int on working capital	R\$/kWh	0.71	0.55	0.71	0.55	0.54		0.63		0.64		0.68		0.70		0.72		0.75		0.76		0.85		0.88		0.97		0.94		0.95		1.01		0.95		1.01		1.05		1.13		1.17		1.23		1.31		1.37						
Per unit RoE	R\$/kWh	0.66	0.65	0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65		0.65				
PU Tariff Components (Fixed)	R\$/kWh	3.75	3.52	3.53	3.54	3.55		3.56		3.58		3.61		3.63		3.66		3.70		3.74		3.79		3.84		3.89		3.96		3.97		4.05		4.09		4.18		4.28		4.34		4.46		4.60		4.74		4.88						
PU Tariff Components (Variable)	R\$/kWh	8.93	6.78	7.02		7.26		7.51		7.77		8.04		8.32		8.60		8.90		9.21		9.52		9.83		10.19		10.54		10.91		11.29		11.67		12.08		12.49		12.92		13.37		13.83		14.31		14.80		15.31				
PU Tariff Components (Total)	R\$/kWh	12.68	10.31	10.55		10.80		11.06		11.34		11.62		11.92		12.24		12.56		12.91		13.27		13.64		14.03		14.44		14.87		15.29		15.64		16.08		16.49		16.98		17.43		17.93		18.46		18.99		19.55		20.04		20.75

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ORM Expenses	Rs Lakh	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90		
Depreciation	Rs Lakh	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on Loan	Rs Lakh	54.47	50.71	46.95	43.20	39.44	35.68	31.93	28.17	24.42	20.66	16.90	13.15	9.39	5.63	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	34.80	35.88	37.00	38.17	39.38	40.64	41.95	43.32	44.73	46.21	47.74	49.33	50.99	52.71	54.50	55.99	58.01	60.10	62.27	64.53	67.10	69.53	72.05	74.66	77.38		
Return on Equity	Rs Lakh	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84
Total Fixed Cost	Rs Lakh	221.67	222.17	222.88	223.82	224.98	226.39	228.06	229.99	232.20	234.71	237.53	240.67	244.15	248.00	252.22	240.08	248.95	258.26	268.02	278.26	289.95	311.23	323.06	335.48	348.52		

Tariff Components (Variable Charges)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs/MT																											
Biomass Cost	Rs Lakh			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.87	9946.54	10289.69
				433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.55	945.04	977.65

Per Unit Tariff Components		Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27												
Per Unit O&M Expenses		R\$/kWh		1.52		0.98	1.03		1.09	1.14		1.20		1.33	1.40		1.48		1.56		1.64	1.72		1.81		1.91		2.01		2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19	3.35			
Per Unit Depreciation		R\$/kWh		0.47		0.52	0.52		0.52	0.52		0.52		0.52	0.52		0.52		0.52		0.52	0.52		0.52		0.52		0.52		0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22			
Per Unit Int on term loan		R\$/kWh		0.47		0.88	0.82		0.76	0.74		0.64		0.58	0.52		0.46		0.33		0.23	0.27		0.15		0.09		0.03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Per unit interest on working capital		R\$/kWh		0.73		0.54	0.53		0.60	0.62		0.64		0.68	0.66		0.70		0.72		0.75	0.77		0.80		0.83		0.88		0.91	0.94	0.97	1.01	1.05	1.09	1.13	1.17	1.21	1.25			
Per unit rate		R\$/kWh		0.66		0.66	0.66		0.66	0.66		0.66		0.66	0.66		0.66		0.66		0.66	0.66		0.66		0.66		0.66		0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66			
PU Tariff Components (Fixed)		R\$/kWh		3.85		3.59	3.60		3.61	3.63		3.65		3.67	3.70		3.73		3.76		3.80	3.85		3.90		3.96		4.02		4.09		3.89	4.03	4.18	4.34	4.51	4.66	4.86	5.04	5.23	5.44	5.65
PU Tariff Components (Variable)		R\$/kWh		9.24		7.02	7.26		7.51	7.77		8.04		8.32	8.60		8.90		9.21		9.52	9.85		10.19		10.54		10.91		11.29		11.67		12.08	12.49	12.92	13.37	13.83	14.31	14.80	15.31	15.84
PU Tariff Components (Total)		R\$/kWh		13.09		10.61	10.86		11.12	11.40		11.68		11.98	12.30		12.63		12.97		13.33	13.70		14.09		14.54		14.93		15.37		15.56		16.11	16.68	17.27	17.88	18.69	19.35	20.04	20.67	21.49

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4.11 Island: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	697.00
			Capital Cost	Rs. Lakh	697.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	697.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	487.90
			Total equity amount	Rs. Lakh	209.10
			Loan Amount	Rs. Lakh	487.90
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	209.10
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

Units Generation		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Installed Capacity		MW	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Net Generation		MU	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	
Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
O&M Expenses		Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.71	
Depreciation		Rs Lakh	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	
Interest on Loan		Rs Lakh	55.42	51.60	47.78	43.95	40.13	36.31	32.49	28.67	24.84	21.02	17.20	13.38	9.56	5.73	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Interest on working Capital		Rs Lakh	32.65	33.64	34.68	35.75	36.88	38.04	39.25	40.51	41.82	43.18	44.60	46.07	47.60	49.20	50.85	52.50	54.07	56.01	58.03	60.12	62.53	64.79	67.13	69.55	72.07	
Return on Equity		Rs Lakh	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	
Total Fixed Cost		Rs Lakh	215.83	215.88	216.11	216.55	217.20	218.06	219.16	220.50	222.10	223.97	226.11	228.55	231.30	234.38	237.80	242.53	242.58	241.04	249.91	259.21	280.11	290.35	301.10	312.38	324.21	
Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Base Price		Rs/MT	4260.000	4406.970	4559.010	4716.296	4879.009	5047.334	5221.467	5401.608	5587.963	5780.748	5980.184	6186.500	6399.935	6620.732	6849.148	7085.443	7329.891	7582.772	7844.378	8115.009	8394.977	8684.603	8984.222	9294.178	9614.827	
Biomass Cost		Rs Lakh	404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	
Per Unit Tariff Components		Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses		RskWh	1.34	0.87	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96
Per Unit Depreciation		RskWh	0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
Per Unit Int on term loan		RskWh	0.47	0.88	0.82	0.76	0.70	0.64	0.58	0.51	0.45	0.39	0.33	0.27	0.21	0.15	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Per unit interest on working capital		RskWh	0.67	0.52	0.53	0.55	0.57	0.59	0.60	0.62	0.64	0.66	0.67	0.73	0.75	0.78	0.81	0.83	0.86	0.89	0.92	0.96	0.99	1.03	1.06	1.10	1.14	
Per unit fuel		RskWh	0.65	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	
PU Tariff Components (Fixed)		RskWh	3.60	3.42	3.42	3.43	3.43	3.47	3.47	3.47	3.52	3.55	3.59	3.62	3.66	3.71	3.77	3.77	3.86	3.92	3.82	3.96	4.11	4.44	4.50	4.77	4.95	5.14
PU Tariff Components (Variable)		RskWh	8.44	6.41	6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47
PU Tariff Components (Total)		RskWh	12.04	9.83	10.05	10.29	10.53	10.79	11.05	11.33	11.63	11.93	12.25	12.58	12.93	13.30	13.68	14.08	14.22	14.72	15.23	15.77	16.32	17.06	17.67	18.30	18.94	19.61
Levelised Tariff		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Discount Factors			1.00	0.91	0.82	0.75	0.68	0.62	0.56	0.51	0.46	0.42	0.38	0.35	0.31	0.28	0.26	0.23	0.21	0.19	0.18	0.16	0.14	0.13	0.12	0.11	0.10	
Levelised Tariff (Total)		RskWh	12.04																									
Discount Rate			10.15%																									

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	
Interest on Loan	Rs Lakh	55.42	51.60	47.78	43.95	40.13	36.31	32.49	28.67	24.84	21.02	17.20	13.38	9.56	5.73	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	33.73	34.76	35.84	36.96	38.13	39.34	40.60	41.91	43.27	44.69	46.16	47.69	49.28	50.93	52.65	54.07	56.01	58.03	60.12	62.29	64.79	67.13	69.55	72.07	74.69	
Return on Equity	Rs Lakh	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	
Total Fixed Cost	Rs Lakh	219.78	229.02	238.46	248.10	257.97	268.11	278.54	289.27	300.29	311.61	323.24	335.17	347.40	359.93	372.75	385.86	399.26	412.95	426.93	441.21	455.79	470.67	485.84	501.30	517.05	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rx/MT				4559.010	4716.296	4879.009	5047.334	5221.467	5401.608	5587.963	5780.748	5980.184	6186.500	6399.935	6620.732	6849.148	7085.443	7329.891	7582.772	7844.378	8115.009	8394.977	8684.603	8984.222	9294.178	9614.827	9946.539
Biomass Cost	Rx Lakh			418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.00	913.53	945.04

Per Unit Tariff Components		Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Per Unit O&M Expenses	Risk/Wh	1.41	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11			
Per Unit Int on Depreciation	Risk/Wh	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Per Unit Int on Term Loan	Risk/Wh	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Per unit interest on working capital	Risk/Wh	0.95	0.53	0.57	0.59	0.62	0.64	0.67	0.71	0.73	0.75	0.78	0.83	0.85	0.89	0.92	0.95	0.99	1.03	1.06	1.10	1.14	1.18	1.22	1.26	1.30	1.34	1.38	1.42	1.46
Per unit RoE	Risk/Wh	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
PU Tariff Components (Fixed)	Risk/Wh	3.69	3.48	3.49	3.54	3.59	3.62	3.63	3.64	3.68	3.73	3.78	3.84	3.89	3.69	3.84	3.96	4.11	4.26	4.40	4.55	4.70	4.85	5.00	5.15	5.30	5.45	5.60	5.75	5.90
PU Tariff Components (Variable)	Risk/Wh	8.74	6.63	6.86	7.10	7.34	7.60	7.86	8.13	8.41	8.70	9.00	9.31	9.63	9.97	10.31	10.67	11.03	11.41	11.81	12.22	12.64	13.07	13.52	13.99	14.47	14.97	15.47	15.97	16.47
PU Tariff Components (Total)	Risk/Wh	12.43	10.12	10.35	10.59	10.85	11.12	11.39	11.69	11.99	12.31	12.65	13.00	13.34	13.74	14.14	14.56	14.92	15.23	15.57	15.92	16.29	16.67	17.07	17.50	17.94	18.39	18.84	19.29	19.74

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4.12 Island: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using Travelling Grate boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	744.00
			Capital Cost	Rs. Lakh	744.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	744.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	520.80
			Total equity amount	Rs. Lakh	223.20
			Loan Amount	Rs. Lakh	520.80
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	223.20
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4200.00
			During Stabilization Period	kcal/kWh	4200.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Q&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
Depreciation	Rs Lakh	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	
Interest on Loan	Rs Lakh	59.16	55.08	51.00	46.92	42.84	38.76	34.68	30.60	26.52	22.44	18.36	14.28	10.20	6.12	2.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Interest on working Capital	Rs Lakh	32.84	33.83	34.86	35.93	37.04	38.20	39.41	40.66	41.97	43.33	44.74	46.20	47.73	49.31	50.96	52.28	54.15	56.10	58.11	60.20	62.63	64.88	67.22	69.65	72.17	
Return on Equity	Rs Lakh	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	54.89	54.89	54.89	54.89	54.89	54.89	
Total Fixed Cost	Rs Lakh	224.69	224.47	224.44	224.62	225.00	225.60	226.44	227.52	228.85	230.45	232.33	234.51	237.00	239.81	242.96	228.28	236.34	244.79	253.66	262.97	284.61	294.86	305.60	316.88	328.72	

Tariff Components (Variable Charges)	Unit	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Base Price	Rs/MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	
Biomass Cost	Rs Lakh	404.75	418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.02	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Per Unit O&M Expenses	R\$/kWh	1.37	0.89	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.63	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03
Per Unit Depreciation	R\$/kWh	0.51	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	
Per Unit Interest on term loan	R\$/kWh	0.51	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	
Per unit interest on working capital	R\$/kWh	0.53	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	
Per unit RoF	R\$/kWh	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	
PU Tariff Components (Fixed)	R\$/kWh	3.79	3.64	3.64	3.64	3.64	3.65	3.66	3.67	3.71	3.73	3.76	3.80	3.84	3.89	3.94	3.97	4.01	4.03	4.07	4.11	4.26	4.41	4.58	4.78	4.99	5.13	5.38
PU Tariff Components (Variable)	R\$/kWh	8.64	6.56	6.78	7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.86	10.13	10.54	10.91	11.29	11.67	12.08	12.48	13.37	13.83	14.31	14.88		
PU Tariff Components (Total)	R\$/kWh	12.43	10.20	10.42	10.66	10.90	11.16	11.43	11.71	12.00	12.31	12.63	12.97	13.32	13.69	14.04	14.48	14.61	15.11	15.64	16.19	16.75	17.54	18.15	18.78	19.44	20.11	

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Tariff Components (Fixed charges)	Unit	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72
Interest on Loan	Rs Lakh	59.16	55.08	51.00	46.92	42.84	38.76	34.68	30.60	26.52	22.44	18.36	14.28	10.20	6.12	2.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh	33.92	34.94	36.02	37.13	38.29	39.50	40.75	42.06	43.42	44.83	46.29	47.82	49.40	51.05	52.77	54.15	56.10	58.11	60.20	62.37	64.88	67.22	69.65	72.17	74.79
Return on Equity	Rs Lakh	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27
Total Fixed Cost	Rs Lakh	228.64	228.61	228.79	229.17	229.77	230.61	231.69	233.02	234.62	236.50	238.68	241.17	243.96	247.13	250.65	236.34	244.79	253.66	262.97	272.73	294.86	305.66	316.88	328.72	341.14

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh		418.72	433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.03	650.75	673.20	696.43	720.46	745.31	771.02	797.63	825.14	853.61	883.06	913.53	945.04

Per Unit Tariff Components		Unit	Leveled Tariff																									
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit GRM Expenses		R\$/kWh	1.44	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19
Per Unit Depreciation		R\$/kWh	0.51	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Per Unit loan on term loan		R\$/kWh	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Per Unit interest on working capital		R\$/kWh	0.71	0.55	0.57	0.58	0.60	0.63	0.66	0.70	0.73	0.77	0.80	0.83	0.86	0.88	0.92	0.94	0.97	0.73	0.91	1.07	1.23	1.39	1.55	1.71	1.87	2.03
Per unit loss:		R\$/kWh	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
PU Tariff Components (Fixed)		R\$/kWh	3.89	3.70	3.70	3.71	3.71	3.72	3.74	3.75	3.78	3.80	3.83	3.87	3.91	3.95	4.00	4.06	3.83	3.97	4.10	4.26	4.42	4.78	4.95	5.13	5.33	5.53
PU Tariff Components (Variable)		R\$/kWh	8.93	6.78	7.02	7.26	7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.49	12.92	13.37	13.83	14.31	14.80	15.31
PU Tariff Components (Total)		R\$/kWh	12.82	10.49	10.72	10.97	11.23	11.49	11.78	12.07	12.38	12.70	13.04	13.39	13.76	14.15	14.55	14.97	15.11	15.64	16.19	16.75	17.34	18.15	18.78	19.44	20.13	20.84

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ORM Expenses	Rs Lakh			60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90
Depreciation	Rs Lakh			34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88
Interest on Loan	Rs Lakh			59.16	55.08	51.00	46.92	42.84	38.76	34.68	30.60	26.52	22.44	18.36	14.28	10.20	6.12	2.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh			35.04	36.11	37.23	38.38	39.59	40.83	42.13	43.51	44.92	46.38	47.91	49.49	51.14	52.86	54.64	56.10	58.11	60.20	62.37	64.63	67.22	69.65	72.17	74.79	77.50
Return on Equity	Rs Lakh			43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	54.89	54.89	54.89	54.89	54.89
Total Fixed Cost	Rs Lakh			232.78	232.96	233.34	233.94	234.78	235.86	237.15	238.79	240.67	242.85	245.34	248.15	251.30	254.82	258.70	244.79	253.66	262.97	273.27	282.98	305.60	316.88	328.72	341.14	354.11

Varifil Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.81	9946.54	10289.69
Biomass Cost	Rs Lakh			433.16	448.11	463.56	479.56	496.10	513.22	530.92	549.24	568.19	587.79	608.07	629.05	650.75	673.20	696.43	720.46	745.31	771.02	797.62	825.14	853.61	883.06	913.53	945.04	977.65

Per Unit Tariff Components		Unit	Levelized Tariff																										
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses		R\$/kWh	1.52		0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.61	2.73	2.88	3.03	3.19	3.35
Per Unit Depreciation		R\$/kWh	0.51		0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
Per Unit Int. on term loan		R\$/kWh	0.53		0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Per unit interest on working capital		R\$/kWh	0.75		0.57	0.59	0.60	0.62	0.64	0.66	0.68	0.70	0.73	0.75	0.78	0.80	0.83	0.86	0.89	0.91	0.94	0.98	1.01	1.05	1.09	1.13	1.17	1.21	1.26
Per unit RoE		R\$/kWh	0.71		0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.89	0.89	0.89	0.89	
PU Tariff Components (Fixed)		R\$/kWh	3.59		3.77	3.77	3.78	3.79	3.80	3.82	3.84	3.87	3.90	3.94	3.98	4.02	4.07	4.13	4.19	3.97	4.11	4.26	4.42	4.59	4.95	5.13	5.33	5.53	5.74
PU Tariff Components (Variable)		R\$/kWh	9.24				7.51	7.77	8.04	8.32	8.60	8.90	9.21	9.52	9.85	10.19	10.54	10.91	11.29	11.67	12.08	12.49	12.92	13.37	13.83	14.31	14.80	15.31	15.84
PU Tariff Components (Total)		R\$/kWh	13.23		10.79	11.04	11.29	11.56	11.84	12.14	12.45	12.77	13.11	13.46	13.83	14.21	14.62	15.04	15.48	15.64	16.19	16.75	17.34	17.96	18.78	19.44	20.13	20.84	21.58

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4.13 Island: Other than Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using AFBC boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	638.00
			Capital Cost	Rs. Lakh	638.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	638.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	446.60
			Total equity amount	Rs. Lakh	191.40
			Loan Amount	Rs. Lakh	446.60
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	191.40
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)	Unit	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh	50.73	47.23	43.73	40.23	36.73	33.24	29.74	26.24	22.74	19.24	15.74	12.24	8.75	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	32.99	34.01	35.08	36.19	37.34	38.54	39.79	41.09	42.43	43.84	45.29	46.81	48.38	50.01	51.71	53.4	55.06	57.04	59.11	61.24	63.69	65.99	68.38	70.87	73.44
Return on Equity	Rs Lakh	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	47.07	47.07	47.07	47.07	47.07
Total Fixed Cost	Rs Lakh	208.17	208.72	209.47	210.43	211.61	213.02	214.67	216.58	218.75	221.20	223.95	227.01	230.39	234.11	238.19	227.04	235.47	244.31	253.59	263.32	283.71	294.43	305.67	317.47	329.86

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	
Biomass Cost	Rs Lakh		411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17	

Per Unit Tariff Components		Unit	Leveled Tariff																									
	Ra/KWh	Wh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit GRM Expenses		Ra/KWh	1.41	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11
Per Unit Depreciation		Ra/KWh	0.43	0.47	0.47	0.49	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit loss on term loan		Ra/KWh	0.43	0.81	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Unit interest on working capital		Ra/KWh	0.54	0.52	0.54	0.56	0.57	0.63	0.65	0.69	0.74	0.79	0.85	0.91	0.97	1.04	1.10	1.18	1.27	1.36	1.45	1.54	1.63	1.72	1.81	1.92	2.02	
Per unit loss:		Ra/KWh	0.60	0.50	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
PU Tariff Components (Fixed)		Ra/KWh	3.54	3.30	3.31	3.32	3.33	3.35	3.38	3.40	3.43	3.47	3.50	3.52	3.60	3.65	3.71	3.79	3.87	3.96	4.02	4.09	4.17	4.25	4.34	4.43	4.53	4.64
PU Tariff Components (Variable)		Ra/KWh	8.58	6.52	6.74	6.97	7.21	7.46	7.72	7.99	8.26	8.55	8.84	9.15	9.46	9.79	10.13	10.48	10.84	11.21	11.60	12.00	12.41	12.84	13.28	13.74	14.22	14.71
PU Tariff Components (Total)		Ra/KWh	12.12	9.81	10.05	10.29	10.55	10.82	11.09	11.39	11.69	12.01	12.35	12.69	13.06	13.44	13.84	14.25	14.63	14.94	15.47	16.02	16.58	17.34	17.95	18.58	19.25	19.93

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ORM Expenses	Rs Lakh			60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90
Depreciation	Rs Lakh			29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	29.77	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76	12.76
Interest on Loan	Rs Lakh			50.73	47.23	43.73	40.23	36.73	33.24	29.74	26.24	22.74	19.24	15.74	12.24	8.75	5.25	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh			34.08	35.16	36.27	37.42	38.62	39.87	41.16	42.51	43.91	45.37	46.88	48.46	50.09	51.78	53.56	55.06	57.04	59.11	61.24	63.46	65.99	68.30	70.87	73.44	76.12
Return on Equity	Rs Lakh			37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	47.07	47.07	47.07	47.07	47.07
Total Fixed Cost	Rs Lakh			212.36	213.05	214.00	215.18	216.59	218.24	220.15	222.32	224.78	227.53	230.58	233.97	237.69	241.77	246.22	235.47	244.31	253.59	263.32	273.53	294.43	305.67	317.47	329.86	342.85

Varifol Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.85	9946.54	10289.69
Biomass Cost	Rs Lakh			425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.27	928.17	960.19

Per Unit Tariff Components		Unit	Levelized Tariff																										
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses		R\$/kWh	1.48		0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11	3.28
Per Unit Depreciation		R\$/kWh	0.43		0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan		R\$/kWh	0.43		0.60	0.75	0.89	0.64	0.59	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital		R\$/kWh	0.00		0.54	0.05	0.03	0.37	0.61	0.47	0.67	0.70	0.72	0.70	0.83	0.74	0.83	0.87	0.94	0.97	1.04	1.08	1.12	1.16	1.21	1.25	1.29	1.33	1.37
Per Unit RoE		R\$/kWh	0.60		0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
PU Tariff Components (Fixed)		R\$/kWh	3.64		3.36	3.38	3.39	3.41	3.43	3.46	3.49	3.52	3.56	3.60	3.65	3.71	3.77	3.83	3.90	3.73	3.87	4.02	4.17	4.33	4.66	4.84	5.03	5.23	5.43
PU Tariff Components (Variable)		R\$/kWh	8.88		6.74	6.97	7.21	7.46	7.72	7.99	8.26	8.55	8.84	9.15	9.46	9.79	10.13	10.48	10.84	11.21	11.60	12.00	12.41	12.84	13.28	13.74	14.22	14.71	15.21
PU Tariff Components (Total)		R\$/kWh	12.52		10.10	10.35	10.60	10.87	11.15	11.44	11.75	12.07	12.40	12.75	13.12	13.50	13.89	14.31	14.74	14.94	15.47	16.02	16.58	17.17	17.95	18.58	19.25	19.93	20.65

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4.14 Island: Other than Rice Straw and Juliflora (plantation) based project] with Air Cooled Condenser and using AFBC - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	685.00
			Capital Cost	Rs. Lakh	685.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	685.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	479.50
			Total equity amount	Rs. Lakh	205.50
			Loan Amount	Rs. Lakh	479.50
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	205.50
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.70	31.70	31.70	31.70	31.70	31.70	31.70	31.70	31.70	
Interest on Loan	Rs Lakh	54.47	50.71	46.95	43.20	39.44	35.68	31.93	28.17	24.42	20.66	16.90	13.15	9.39	5.63	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Interest on working Capital	Rs Lakh	33.18	34.26	35.26	36.37	37.51	38.71	39.95	41.24	42.58	43.98	45.43	46.93	48.50	50.13	51.83	53.22	55.14	57.13	59.19	61.33	63.78	66.09	68.48	70.96	73.54	
Return on Equity	Rs Lakh	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	
Total Fixed Cost	Rs Lakh	217.03	217.31	217.80	218.49	219.41	220.56	221.94	223.59	225.50	227.63	230.17	232.97	236.08	239.54	243.36	238.80	239.23	248.07	257.34	267.07	288.22	298.94	310.18	321.98	334.36	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	
Biomass Cost	Rs Lakh		411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17	

Per Unit Tariff Components		Unit	Leveled Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Per Unit O&M Expenses		R\$/kWh		1.44	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19	
Per Unit Depreciation		R\$/kWh		0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
Per Unit O&M on term loan		R\$/kWh		0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	
Per unit interest on working capital		R\$/kWh		0.70	0.54	0.53	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.71	0.74	0.76	0.79	0.81	0.84	0.86	0.89	0.93	0.96	1.02	1.07	1.11	1.15	1.19		
Per unit RoIe		R\$/kWh		0.66	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
PU Tariff Components (Fixed)		R\$/kWh		3.74	3.52	3.52	3.53	3.54	3.56	3.57	3.60	3.62	3.65	3.69	3.73	3.78	3.83	3.88	3.94	3.74	3.68	4.02	4.17	4.33	4.67	4.84	5.03	5.22	5.42	
PU Tariff Components (Variable)		R\$/kWh		8.78	6.66	6.8	6.9	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54	15.04
PU Tariff Components (Total)		R\$/kWh		12.51	10.18	10.42	10.66	10.92	11.19	11.47	11.76	12.07	12.40	12.73	13.08	13.45	13.84	14.24	14.66	15.06	15.47	15.88	16.44	17.02	17.80	18.43	19.08	19.76	20.46	

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ORM Expenses	Rs Lakh			60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90
Depreciation	Rs Lakh			31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	31.97	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70
Interest on Loan	Rs Lakh			54.47	50.71	46.95	43.20	39.44	35.68	31.93	28.17	24.42	20.66	16.90	13.15	9.39	5.63	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh			34.28	35.34	36.45	37.60	38.79	40.03	41.33	42.66	44.06	45.51	47.02	48.59	50.22	51.91	53.67	55.14	57.13	59.19	61.33	63.55	66.09	68.40	70.96	73.54	76.22
Return on Equity	Rs Lakh			39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84	39.84
Total Fixed Cost	Rs Lakh			221.15	221.64	222.33	223.25	224.39	225.78	227.43	229.34	231.53	234.01	236.81	239.92	243.38	247.20	251.39	259.23	248.07	257.34	267.07	277.28	298.94	310.18	321.98	334.36	347.36

Varifil Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.14	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh			425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.21	928.17	960.19

Per Unit Tariff Components		Leveled Tariff		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Per Unit O&M Expenses		R\$/kWh		1.52		0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19	3.35	
Per Unit Depreciation		R\$/kWh		0.47		0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
Per Unit Cost on Term Loan		R\$/kWh		0.87		0.88	0.86	0.76	0.70	0.62	0.58	0.52	0.46	0.39	0.35	0.30	0.27	0.24	0.20	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.06	0.06	
Per unit interest on working capital		R\$/kWh		0.72		0.61	0.56	0.61	0.67	0.63	0.56	0.71	0.74	0.76	0.76	0.72	0.59	0.87	0.93	0.96	0.93	0.96	1.11	1.19	1.24	1.19	1.13	1.07	1.01	0.95	
Per Unit Rate:		R\$/kWh		0.66		0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
PU Tariff Components (Fixed)		R\$/kWh		3.84		3.58	3.59	3.60	3.62	3.64	3.66	3.69	3.72	3.75	3.79	3.84	3.89	3.94	4.01	4.07	3.88	4.02	4.17	4.33	4.49	4.64	4.82	5.03	5.22	5.42	5.63
PU Tariff Components (Variable)		R\$/kWh		9.08		6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54	15.04	15.56	
PU Tariff Components (Total)		R\$/kWh		12.91		10.48	10.72	10.98	11.25	11.53	11.83	12.13	12.46	12.79	13.15	13.51	13.90	14.30	14.72	15.16	15.34	15.88	16.44	17.02	17.63	18.43	19.08	19.76	20.46	21.19	

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4.15 Island: Rice Straw and Juliflora (plantation) based project with Water Cooled Condenser and using AFBC boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	697.00
			Capital Cost	Rs. Lakh	697.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	697.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	487.90
			Total equity amount	Rs. Lakh	209.10
			Loan Amount	Rs. Lakh	487.90
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	209.10
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	1.50
		For Variable Charges			
		Biomass Stock		Months	4.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
ORM Expenses	Rs Lakh		54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77
Depreciation	Rs Lakh		32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53
Interest on Loan	Rs Lakh		55.42	51.60	47.78	43.95	40.13	36.31	32.49	28.67	24.84	21.02	17.20	13.38	9.56	5.73	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		32.17	33.14	34.16	35.22	36.33	37.47	38.66	39.90	41.19	42.53	43.93	45.38	46.88	48.45	50.08	51.40	53.25	55.16	57.15	59.21	61.59	63.81	66.11	68.51	70.99
Return on Equity	Rs Lakh		40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	51.43	51.43	51.43	51.43	51.43
Total Fixed Cost	Rs Lakh		215.35	215.38	215.60	216.02	216.65	217.49	218.57	219.89	221.47	223.31	225.44	227.85	230.58	233.63	237.02	223.73	231.76	240.18	249.02	258.30	279.16	289.37	300.09	311.33	323.13

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs/Mt	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.88	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs/Lakh	397.52	411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.28	783.38	810.41	838.37	867.29	897.21

Per Unit Tariff Components		Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.34	0.87	0.91	0.96	1.00	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	
Per Unit Depreciation	R\$/kWh	0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
Per Unit Int on term loan	R\$/kWh	0.47	0.88	0.82	0.76	0.70	0.64	0.58	0.51	0.45	0.39	0.33	0.27	0.21	0.15	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Per unit interest on working capital	R\$/kWh	0.66	0.51	0.53	0.54	0.56	0.58	0.59	0.61	0.63	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.81	0.84	0.87	0.91	0.94	0.98	1.01	1.05	1.09	1.12	
Per unit Ref:	R\$/kWh	0.65	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	
PU Tariff Components (Fixed)	R\$/kWh	3.90	3.40	3.41	3.42	3.43	3.45	3.46	3.47	3.48	3.49	3.50	3.51	3.52	3.53	3.54	3.55	3.56	3.57	3.58	3.59	3.60	3.61	3.62	3.63	3.64	3.65	
PU Tariff Components (Variable)	R\$/kWh	8.29	6.30	6.52	6.74	6.97	7.21	7.46	7.73	7.99	8.26	8.52	8.84	9.13	9.46	9.79	10.13	10.48	10.84	11.23	11.60	12.00	12.43	12.84	13.28	13.73	14.19	
PU Tariff Components (Total)	R\$/kWh	11.88	9.71	9.93	10.16	10.40	10.65	10.91	11.18	11.47	11.77	12.08	12.41	12.76	13.12	13.43	13.83	14.02	14.51	15.02	15.54	16.02	16.43	16.84	17.26	17.64	18.04	

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh	57.57	60.59		63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58
Depreciation	Rs Lakh	32.53	32.53		32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	32.53	33.94	33.94	33.94	33.94	33.94	33.94	33.94	33.94	33.94	33.94
Interest on Loan	Rs Lakh	55.42	51.60		47.78	43.95	40.13	36.31	32.49	28.67	24.84	21.02	17.20	13.38	9.56	5.73	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	33.23	34.25		35.31	36.41	37.54	38.75	39.99	41.28	42.62	44.01	45.46	46.97	48.53	50.16	51.86	53.25	55.16	57.15	59.21	61.35	63.81	66.11	68.51	70.99	73.57
Return on Equity	Rs Lakh	40.54	40.54		40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	51.43	51.43	51.43	51.43	51.43	51.43
Total Fixed Cost	Rs Lakh	219.29	219.51		219.92	220.53	221.40	222.48	223.80	225.38	227.22	229.34	231.76	234.49	237.54	240.93	244.68	231.76	240.18	249.02	258.30	268.03	289.37	300.49	311.33	323.13	335.51

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.2	9294.18	9614.83	9946.5	
Biomass Cost	Rs Lakh		411.24	425.43	446.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.29	783.38	810.41	838.37	867.29	897.21	928.1	

Per Unit Tariff Components		Unit	Leveled Tariff																										
	Ra/KWh	Wh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Per Unit GRM Expenses	Ra/KWh	1.41	0.91	0.96	1.01	1.06	1.12	1.18	1.24	1.31	1.37	1.45	1.52	1.60	1.69	1.77	1.87	1.97	2.07	2.18	2.29	2.41	2.54	2.67	2.81	2.96	3.11		
Per Unit Depreciation	Ra/KWh	0.47	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	
Per Unit Jan on Term loan	Ra/KWh	0.67	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Per Unit Interest on working capital	Ra/KWh	0.98	0.53	0.54	0.55	0.58	0.61	0.63	0.65	0.67	0.72	0.74	0.77	0.81	0.84	0.87	0.91	0.94	0.97	1.01	1.05	1.09	1.14	1.17	1.21	1.25	1.29	1.33	
Per unit loss:	Ra/KWh	0.65	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.61	0.61	0.61	0.61	0.61	
PU Tariff Components (Fixed)	Ra/KWh	3.68	3.47	3.48	3.48	3.49	3.51	3.52	3.55	3.57	3.60	3.63	3.67	3.72	3.76	3.82	3.88	3.96	4.04	4.11	4.19	4.25	4.35	4.48	4.61	4.75	4.93	5.12	5.32
PU Tariff Components (Variable)	Ra/KWh	8.58	6.52	6.74	6.97	7.21	7.46	7.72	7.99	8.26	8.55	8.84	9.15	9.46	9.79	10.13	10.48	10.84	11.21	11.60	12.00	12.41	12.84	13.28	13.74	14.22	14.71		
PU Tariff Components (Total)	Ra/KWh	12.26	9.99	10.22	10.46	10.71	10.97	11.24	11.53	11.83	12.15	12.48	12.82	13.18	13.55	13.94	14.35	14.51	15.02	15.54	16.09	16.66	17.42	18.04	18.67	19.34	20.02		

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4.16 Island: Rice Straw and Juliflora (plantation) based project with Air Cooled Condenser and using AFBC boiler - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	744.00
			Capital Cost	Rs. Lakh	744.00
			Capital Subsidy, if any	Rs. Lakh	
			Net Capital Cost	Rs. Lakh	744.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	520.80
			Total equity amount	Rs. Lakh	223.20
			Loan Amount	Rs. Lakh	520.80
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	223.20
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	54.70
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	1.50
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	4125.00
			During Stabilization Period	kcal/kWh	4125.00
		Base Price	Base Price	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Facility Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	54.70	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	
	Rs Lakh	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	
Interest on Loan	Rs Lakh	59.16	55.08	51.00	46.92	42.84	38.76	34.68	30.60	26.52	22.44	18.36	14.28	10.20	6.12	2.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Interest on working Capital	Rs Lakh	32.36	33.33	34.34	35.40	36.49	37.63	38.82	40.06	41.34	42.67	44.06	45.51	47.01	48.57	50.19	51.48	53.33	55.24	57.23	59.29	61.69	63.91	66.21	68.60	71.09	
Return on Equity	Rs Lakh	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	
Total Fixed Cost	Rs Lakh	224.21	223.97	223.93	224.08	224.45	225.03	225.85	226.91	228.22	229.80	231.66	233.81	236.28	239.06	242.19	227.48	236.51	243.94	252.78	262.05	283.66	293.88	304.59	315.84	327.63	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price	Rs/MT		4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.68	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh		397.52	411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.24	783.38	810.41	838.37	867.29	897.21

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.37	0.89	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03
Per Unit Depreciation	R\$/kWh	0.51	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Per Unit Int on term loan	R\$/kWh	0.51	0.56	0.59	0.63	0.66	0.69	0.73	0.76	0.80	0.83	0.86	0.90	0.93	0.97	0.10	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	R\$/kWh	0.67	0.62	0.58	0.54	0.51	0.48	0.45	0.42	0.39	0.37	0.34	0.31	0.28	0.25	0.08	0.09	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01
Per unit RoF	R\$/kWh	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
PU Tariff Components (Fixed)	R\$/kWh	3.78	3.63	3.63	3.63	3.63	3.64	3.65	3.66	3.68	3.70	3.72	3.75	3.79	3.83	3.87	3.92	3.99	3.82	3.95	4.10	4.25	4.40	4.56	4.76	4.92	5.11
PU Tariff Components (Variable)	R\$/kWh	8.48	6.44	6.66	6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54
PU Tariff Components (Total)	R\$/kWh	12.26	10.07	10.29	10.52	10.76	11.01	11.28	11.56	11.84	12.15	12.46	12.80	13.14	13.51	13.88	14.28	14.40	14.90	15.42	15.96	16.52	17.29	17.89	18.52	19.17	19.85

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh	57.57	60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	
Depreciation	Rs Lakh	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	
Interest on Loan	Rs Lakh	59.16	55.08	51.00	46.92	42.84	38.76	34.68	30.60	26.52	22.44	18.36	14.28	10.20	6.12	2.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Interest on working Capital	Rs Lakh	33.42	34.43	35.49	36.58	37.73	38.91	40.15	41.43	42.76	44.15	45.60	47.10	48.64	50.28	51.97	53.33	55.24	57.23	59.29	61.43	63.91	66.21	68.60	71.09	73.66	
Return on Equity	Rs Lakh	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	
Total Fixed Cost	Rs Lakh	228.14	228.10	228.25	228.62	229.20	230.02	231.08	232.39	233.97	235.83	237.98	240.45	243.23	246.36	249.85	253.51	243.94	252.78	262.05	271.79	293.88	304.58	315.84	327.63	340.02	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Base Price	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.11	9614.83	9946.54		
Biomass Cost	Rs Lakh		411.24	425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.21	897.21	928.17		

Per Unit Tariff Components		Unit	Leveled Tariff																								
	Ra/kWh	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit GR&M Expenses	Ra/kWh	1.44	0.93	0.98	1.03	1.09	1.14	1.20	1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19
Per Unit Depreciation	Ra/kWh	0.51	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Per Unit loan on term loan	Ra/kWh	0.51	0.85	0.89	0.85	0.85	0.89	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Per Unit interest on working capital	Ra/kWh	0.70	0.54	0.56	0.54	0.56	0.63	0.63	0.70	0.70	0.76	0.76	0.81	0.81	0.86	0.86	0.96	0.96	1.04	1.04	1.15	1.24	1.24	1.24	1.24	1.24	1.24
Per unit loss:	Ra/kWh	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
PU Tariff Components (Fixed)	Ra/kWh	3.88	3.70	3.70	3.70	3.70	3.71	3.73	3.74	3.77	3.79	3.82	3.86	3.90	3.94	3.99	4.05	3.82	3.95	4.10	4.25	4.40	4.76	4.94	5.12	5.31	5.51
PU Tariff Components (Variable)	Ra/kWh	8.78	6.66	6.89	7.13	7.38	7.63	7.90	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54	15.04
PU Tariff Components (Total)	Ra/kWh	12.65	10.36	10.59	10.83	11.08	11.35	11.62	11.91	12.22	12.53	12.86	13.21	13.57	13.95	14.35	14.76	14.90	15.42	15.96	16.52	17.10	17.89	18.52	19.17	19.85	20.55

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Tariff Components (Fixed charges)	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ORM Expenses	Rs Lakh		60.59	63.78	67.12	70.65	74.36	78.26	82.37	86.69	91.24	96.04	101.08	106.38	111.97	117.85	124.03	130.55	137.40	144.61	152.21	160.20	168.61	177.46	186.77	196.58	206.90		
Depreciation	Rs Lakh		34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	34.72	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	
Interest on Loan	Rs Lakh		59.16	55.08	51.00	46.92	42.84	38.76	34.68	30.60	26.52	22.44	18.36	14.28	10.20	6.12	2.04	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	
Interest on working Capital	Rs Lakh		32.67	33.66	34.69	35.76	36.88	38.04	39.25	40.50	41.81	43.17	44.58	46.06	47.59	49.18	50.83	52.16	54.04	55.99	58.01	60.12	62.56	64.82	67.18	69.62	72.16		
Return on Equity	Rs Lakh		43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	43.27	
Total Fixed Cost	Rs Lakh		230.41	230.51	230.80	231.32	232.07	233.05	234.29	235.79	237.57	239.64	242.01	244.71	247.75	251.14	254.90	240.86	249.59	258.75	268.37	278.47	300.94	312.06	323.73	335.97	348.83		

Varifol Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price	Rx/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.85	9946.54	10289.65
Biomass Cost	Rs Lakh			425.43	440.10	455.29	470.99	487.24	504.05	521.44	539.43	558.04	577.30	597.21	617.82	639.13	661.18	683.99	707.59	732.00	757.26	783.38	810.41	838.37	867.29	897.27	928.17	960.19

Per Unit Tariff Components	Unit	Levelized Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Per Unit O&M Expenses	R\$/kWh	1.52		0.98	1.03	1.09		1.14	1.20		1.27	1.33	1.40	1.48	1.56	1.64	1.72	1.81	1.91	2.01	2.12	2.23	2.34	2.47	2.60	2.73	2.88	3.03	3.19	3.35
Per Unit Net Depreciation	R\$/kWh	0.51		0.56	0.56	0.56		0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Per Unit Int on Term loan	R\$/kWh	0.51		0.56	0.89	0.83		0.76	0.69		0.63	0.56	0.50	0.43	0.36	0.30	0.23	0.17	0.10	0.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	R\$/kWh	0.02		0.56	0.63	0.63		0.63	0.63	0.63	0.63	0.63	0.72	0.74	0.82	0.84	0.90	0.93	0.96	1.00	1.03	1.04	1.11	1.15	1.24	1.29	1.34	1.39	1.44	1.49
Per Unit RoE	R\$/kWh	0.78		0.70	0.70	0.70		0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
PU Tariff Components (Fixed)	R\$/kWh	3.91		3.76	3.77	3.77		3.78	3.79	3.81	3.83	3.86	3.89	3.92	3.96	4.01	4.06	4.12	4.18	3.95	4.10	4.25	4.40	4.57	4.84	5.12	5.31	5.51	5.72	
PU Tariff Components (Variable)	R\$/kWh	9.08		6.89	7.13	7.38		7.63	7.93	8.17	8.45	8.74	9.04	9.35	9.68	10.01	10.36	10.71	11.08	11.47	11.86	12.27	12.69	13.13	13.59	14.05	14.54	15.04	15.56	
PU Tariff Components (Total)	R\$/kWh	13.05		10.66	10.90	11.15		11.41	11.69	11.98	12.28	12.60	12.93	13.28	13.64	14.02	14.42	14.83	15.26	15.42	15.96	16.52	17.10	17.70	18.52	19.17	19.85	20.55	21.28	

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5 GENERIC TARIFF FOR NON-FOSSIL FUEL (BAGASSE) BASED COGENERATION PROJECTS

5.1 Mainland: Non-Fossil Fuel (Bagasse) based Cogeneration Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	8.5%
			PLF	%	53%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	562.00
			Capital Cost	Rs. Lakh	562.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	562.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	393.40
			Total equity amount	Rs. Lakh	168.60
			Loan Amount	Rs. Lakh	393.40
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	168.60
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	28.90
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	3600.00
			During Stabilization Period	kcal/kWh	3600.00
		Base Price	Base Price of Bagasse	Rs./MT	2723.00
		GCV-Biomass	GCV-Biomass (Bagasse)	kcal/kg	2250.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Q&M Expenses	Rs Lakh		28.90	30.42	32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68
Depreciation	Rs Lakh		26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
Interest on Loan	Rs Lakh		40.88	38.06	35.24	32.42	29.60	26.79	23.97	21.15	18.33	15.51	12.69	9.87	7.05	4.23	1.41	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh		15.76	16.21	16.67	17.15	17.65	18.18	18.72	19.29	19.88	20.50	21.14	21.80	22.50	23.22	23.97	24.48	25.35	26.25	27.19	28.16	29.33	30.38	31.47	32.60	33.78
Return on Equity	Rs Lakh		28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	36.28	36.28	36.28	36.28
Total Fixed Cost	Rs Lakh		140.37	139.52	138.76	138.10	137.55	137.12	136.80	136.61	136.55	136.64	136.86	137.24	137.78	138.48	139.37	126.58	130.72	135.07	139.62	144.41	157.27	162.54	168.07	173.88	179.98

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price of Fuel	Rs/MT	2723.00	2816.94	2914.13	3014.67	3118.67	3226.27	3337.57	3452.72	3571.84	3695.07	3822.54	3954.42	4090.85	4231.98	4377.99	4529.03	4685.28	4846.92	5014.14	5187.13	5366.08	5551.21	5742.73	5940.86	6145.82	
Biomass Cost	Rs Lakh	202.42	209.40	216.62	224.10	231.83	239.83	248.10	256.66	265.51	274.68	284.15	293.95	304.10	314.59	325.44	336.67	348.28	360.30	372.73	385.59	398.89	412.65	426.89	441.62	456.85	

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.07	0.68	0.72	0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32
Per Unit Depreciation	R\$/kWh	0.55	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	
Per Unit Int on term loan	R\$/kWh	0.50	0.96	0.90	0.83	0.76	0.70	0.63	0.56	0.50	0.43	0.36	0.30	0.23	0.17	0.10	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Per unit interest on working capital	R\$/kWh	0.48	0.37	0.38	0.39	0.40	0.42	0.43	0.44	0.45	0.47	0.48	0.50	0.51	0.53	0.55	0.56	0.58	0.60	0.62	0.64	0.66	0.69	0.71	0.74	0.77	
Per unit RoE	R\$/kWh	0.69	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.85	0.85	0.85	0.85	0.85	
PU Tariff Components (Fixed)	R\$/kWh	3.29	3.30	3.28	3.26	3.25	3.24	3.23	3.22	3.21	3.21	3.21	3.22	3.23	3.24	3.26	3.28	2.98	3.07	3.18	3.28	3.40	3.70	3.82	3.95	4.09	
PU Tariff Components (Variable)	R\$/kWh	6.36	4.76	4.93	5.10	5.27	5.45	5.64	5.84	6.04	6.25	6.46	6.68	6.91	7.15	7.40	7.66	7.92	8.19	8.48	8.77	9.07	9.38	9.71	10.04	10.39	
PU Tariff Components (Total)	R\$/kWh	9.65	8.06	8.21	8.36	8.52	8.69	8.87	9.05	9.25	9.46	9.68	9.90	10.14	10.39	10.66	10.93	10.90	11.27	11.65	12.05	12.47	13.08	13.53	14.00	14.48	

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Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT		2816.94	2914.13	3014.67	3118.67	3226.27	3337.57	3452.72	3571.84	3695.07	3822.54	3954.42	4090.85	4231.98	4377.99	4529.03	4685.28	4846.92	5014.14	5187.13	5366.08	5551.21	5742.73	5940.86	6145.82	6357.85
Biomass Cost	Rs Lakh		209.40	216.62	224.10	231.83	239.83	248.10	256.66	265.51	274.68	284.15	293.95	304.10	314.59	325.44	336.67	348.28	360.30	372.73	385.59	398.89	412.65	426.89	441.62	456.85	472.61

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tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh			32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68	103.86	109.31
Depreciation	Rs Lakh			26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
Interest on Loan	Rs Lakh			40.88	38.06	35.24	32.42	29.60	26.79	23.97	21.15	18.33	15.51	12.69	9.87	7.05	4.23	1.41	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh			16.78	17.27	17.77	18.29	18.84	19.41	20.00	20.61	21.25	21.92	22.61	23.33	24.09	24.87	25.68	26.25	27.19	28.16	29.18	30.22	31.47	32.60	33.78	34.99	36.26
Return on Equity	Rs Lakh			28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60
Total Fixed Cost	Rs Lakh			144.51	143.85	143.31	142.87	142.56	142.37	142.31	142.39	142.61	142.99	143.53	144.24	145.12	146.19	147.45	135.07	139.62	144.41	149.43	154.70	168.07	173.88	179.98	186.38	193.10

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT			2914.13	3014.67	3118.67	3226.27	3337.57	3452.72	3571.84	3695.07	3822.54	3954.42	4090.85	4231.98	4377.99	4529.03	4685.28	4846.92	5014.14	5187.13	5366.08	5551.21	5742.73	5940.86	6145.82	6357.85	6577.19
Biomass Cost	Rs Lakh			216.62	224.10	231.83	239.83	248.10	256.66	265.51	274.68	284.15	293.95	304.10	314.59	325.44	336.67	348.28	360.30	372.73	385.59	398.89	412.65	426.89	441.62	456.85	472.61	488.92

Per Unit Tariff Components	Unit	Levelled Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.19			0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32	2.44	2.57
Per Unit Depreciation	Rs/kWh	0.55			0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Per Unit Int on term loan	Rs/kWh	0.50			0.96	0.90	0.83	0.76	0.70	0.63	0.56	0.50	0.43	0.36	0.30	0.23	0.17	0.10	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	Rs/kWh	0.51			0.39	0.41	0.42	0.43	0.44	0.46	0.47	0.48	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.64	0.66	0.69	0.71	0.74	0.77	0.79	0.82	0.85
Per unit RoE	Rs/kWh	0.69			0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.85	0.85	0.85	0.85	0.85
PU Tariff Components (Fixed)	Rs/kWh	3.44			3.40	3.38	3.37	3.36	3.35	3.35	3.35	3.35	3.35	3.36	3.38	3.39	3.41	3.44	3.47	3.18	3.28	3.40	3.52	3.64	3.95	4.09	4.23	4.38	4.54
PU Tariff Components (Variable)	Rs/kWh	6.81			5.10	5.27	5.45	5.64	5.84	6.04	6.25	6.46	6.68	6.91	7.15	7.40	7.66	7.92	8.19	8.48	8.77	9.07	9.38	9.71	10.04	10.39	10.75	11.12	11.50
PU Tariff Components (Total)	Rs/kWh	10.24			8.50	8.66	8.82	9.00	9.19	9.39	9.59	9.81	10.04	10.28	10.53	10.79	11.07	11.36	11.66	11.65	12.05	12.47	12.90	13.35	14.00	14.48	14.98	15.50	16.04

Levilled Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Discount Factors					1.00	0.92	0.84	0.77	0.71	0.65	0.59	0.54	0.50	0.46	0.42	0.38	0.35	0.32	0.30	0.27	0.25	0.23	0.21	0.19	0.18	0.16	0.15	0.14	0.12
Levilled Tariff	Rs/kWh	10.24																											
Discount Rate	9.10%																												

5.2 Island: Non-Fossil Fuel (Bagasse) based Cogeneration Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	8.5%
			PLF	%	53%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/ MW	562.00
			Capital Cost	Rs. Lakh	562.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	562.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	393.40
			Total equity amount	Rs. Lakh	168.60
			Loan Amount	Rs. Lakh	393.40
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	168.60
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/ MW	28.90
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	3600.00
			During Stabilization Period	kcal/kWh	3600.00
		Base Price	Base Price of Bagasse	Rs./MT	2723.00
		GCV-Biomass	GCV-Biomass (Bagasse)	kcal/kg	2250.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Q&M Expenses	Rs Lakh		28.90	30.42	32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68
Depreciation	Rs Lakh		26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
Interest on loan	Rs Lakh		44.69	41.60	38.52	35.44	32.36	29.28	26.20	23.11	20.03	16.95	13.87	10.79	7.70	4.62	1.54	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh		17.28	17.76	18.25	18.77	19.31	19.87	20.46	21.07	21.70	22.36	23.05	23.77	24.52	25.30	26.11	26.65	27.60	28.58	29.60	30.65	31.95	33.08	34.27	35.49	36.77
Return on Equity	Rs Lakh		32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	41.47	41.47	41.47	41.47	41.47
Total Fixed Cost	Rs Lakh		149.78	148.69	147.70	146.82	146.05	145.39	144.85	144.44	144.17	144.03	144.04	144.21	144.54	145.04	145.72	132.84	137.06	141.48	146.12	150.98	165.07	170.43	176.05	181.96	188.15

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price of Fuel	Rs/MT	2723.00	2816.94	2914.13	3014.67	3118.67	3226.27	3337.57	3452.72	3571.84	3695.07	3822.54	3954.42	4090.85	4231.98	4377.99	4529.03	4685.28	4846.92	5014.14	5187.13	5366.08	5551.21	5742.73	5940.86	6145.82
Biomass Cost	Rs Lakh	202.42	209.40	216.62	224.10	231.83	239.83	248.10	256.66	265.51	274.68	284.15	293.95	304.10	314.59	325.44	336.67	348.28	360.30	372.73	385.59	398.89	412.65	426.89	441.62	456.85

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.05	0.68	0.72	0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32
Per Unit Depreciation	R\$/kWh	0.56	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Per Unit Int on term loan	R\$/kWh	0.56	1.05	0.98	0.91	0.83	0.76	0.69	0.62	0.54	0.47	0.40	0.33	0.25	0.18	0.11	0.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	R\$/kWh	0.51	0.41	0.42	0.43	0.44	0.45	0.47	0.48	0.50	0.51	0.53	0.54	0.56	0.58	0.60	0.61	0.63	0.65	0.67	0.70	0.72	0.75	0.78	0.81	0.83	0.86
Per unit RoE	R\$/kWh	0.78	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.98	0.98	0.98	0.98
PU Tariff Components (Fixed)	R\$/kWh	3.47	3.52	3.50	3.47	3.45	3.44	3.42	3.41	3.40	3.39	3.39	3.39	3.39	3.40	3.41	3.43	3.12	3.22	3.33	3.44	3.55	3.88	4.01	4.14	4.28	4.43
PU Tariff Components (Variable)	R\$/kWh	6.27	4.76	4.93	5.10	5.27	5.45	5.64	5.84	6.04	6.25	6.46	6.68	6.91	7.15	7.40	7.66	7.92	8.19	8.48	8.77	9.07	9.38	9.71	10.04	10.39	10.75
PU Tariff Components (Total)	R\$/kWh	9.74	8.28	8.42	8.57	8.73	8.89	9.06	9.24	9.44	9.64	9.85	10.07	10.31	10.55	10.81	11.08	11.04	11.42	11.80	12.21	12.62	13.27	13.72	14.18	14.67	15.17

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Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT		2816.94	2914.13	3014.67	3118.67	3226.27	3337.57	3452.72	3571.84	3695.07	3822.54	3954.42	4090.85	4231.98	4377.99	4529.03	4685.28	4846.92	5014.14	5187.13	5366.08	5551.21	5742.73	5940.86	6145.82	6357.85
Biomass Cost	Rs Lakh		209.40	216.62	224.10	231.83	239.83	248.10	256.66	265.51	274.68	284.15	293.95	304.10	314.59	325.44	336.67	348.28	360.30	372.73	385.59	398.89	412.65	426.89	441.62	456.85	472.61

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Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT			2914.13	3014.67	3118.67	3226.27	3337.57	3452.72	3571.84	3695.07	3822.54	3954.42	4090.85	4231.98	4377.99	4529.03	4685.28	4846.92	5014.14	5187.13	5366.08	5551.21	5742.73	5940.86	6145.82	6357.85	6577.19
Biomass Cost	Rs Lakh			216.62	224.10	231.83	239.83	248.10	256.66	265.51	274.68	284.15	293.95	304.10	314.59	325.44	336.67	348.28	360.30	372.73	385.59	398.89	412.65	426.89	441.62	456.85	472.61	488.92

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6 GENERIC TARIFF FOR NON-FOSSIL FUEL (OTHER THAN BAGASSE) BASED COGENERATION PROJECTS

6.1 Mainland: Non-Fossil Fuel (Other than Bagasse) based Cogeneration Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	8.5%
			PLF	%	53%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	562.00
			Capital Cost	Rs. Lakh	562.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	562.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	393.40
			Total equity amount	Rs. Lakh	168.60
			Loan Amount	Rs. Lakh	393.40
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	168.60
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	28.90
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	3600.00
			During Stabilization Period	kcal/kWh	3600.00
		Base Price	Base Price of Bagasse	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass (Other than Bagasse)	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh		30.42	32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68	103.86	
Depreciation	Rs Lakh		26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
Interest on Loans	Rs Lakh		40.88	38.06	35.24	32.42	29.60	26.79	23.97	21.15	18.33	15.51	12.69	9.87	7.05	4.23	1.41	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh		18.00	18.52	19.07	19.64	20.22	20.84	21.48	22.14	22.83	23.55	24.30	25.08	25.89	26.73	27.60	28.24	29.24	30.28	31.36	32.48	33.80	35.01	36.26	37.57	38.91	
Return on Equity	Rs Lakh		28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	36.28	36.28	36.28	36.28	36.28	36.28
Total Fixed Cost	Rs Lakh		144.13	143.43	142.84	142.35	141.98	141.74	141.62	141.63	141.79	142.10	142.55	143.18	143.97	144.94	146.10	133.61	138.05	142.72	147.61	152.74	165.96	171.62	177.55	183.77	190.30	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Likness Cost	Rs Lakh		237.77	245.97	254.46	263.24	272.32	281.72	291.43	301.49	311.89	322.65	333.78	345.30	357.21	369.53	382.28	395.47	409.12	423.23	437.83	452.94	468.56	484.73	501.45	518.75	536.65

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.13		0.72	0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32	2.44
Per Unit Depreciation	Rs/kWh	0.55		0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Per Unit Int on term loan	Rs/kWh	0.50		0.96	0.90	0.83	0.76	0.70	0.63	0.56	0.50	0.43	0.36	0.30	0.23	0.17	0.10	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	Rs/kWh	0.55		0.42	0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.54	0.55	0.57	0.59	0.61	0.63	0.65	0.66	0.69	0.71	0.74	0.76	0.80	0.82	0.85	0.88	0.92
Per unit RoE	Rs/kWh	0.69		0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.85	0.85	0.85	0.85	0.85
PU Tariff Components (Fixed)	Rs/kWh	3.41		3.39	3.37	3.36	3.35	3.34	3.33	3.33	3.33	3.34	3.34	3.35	3.37	3.39	3.41	3.44	3.44	3.14	3.25	3.36	3.47	3.59	3.90	4.04	4.18	4.32
PU Tariff Components (Variable)	Rs/kWh	7.47		5.59	5.79	5.99	6.19	6.41	6.63	6.86	7.09	7.34	7.59	7.85	8.12	8.40	8.69	8.99	9.30	9.62	9.96	10.30	10.65	11.02	11.40	11.80	12.20	12.62
PU Tariff Components (Total)	Rs/kWh	10.89		8.98	9.16	9.35	9.54	9.75	9.96	10.19	10.42	10.67	10.93	11.21	11.49	11.79	12.10	12.43	12.45	12.87	13.31	13.77	14.25	14.93	15.44	15.97	16.53	17.10

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh			32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68	103.86	109.31
Depreciation	Rs Lakh			26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
Interest on Loan	Rs Lakh			40.88	38.06	35.24	32.42	29.60	26.79	23.97	21.15	18.33	15.51	12.69	9.87	7.05	4.23	1.41	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh			18.58	19.13	19.69	20.28	20.90	21.53	22.20	22.89	23.61	24.36	25.14	25.94	26.79	27.66	28.57	29.24	30.28	31.36	32.48	33.65	35.01	36.26	37.57	38.91	40.32
Return on Equity	Rs Lakh			28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60
Total Fixed Cost	Rs Lakh	1	2	146.31	145.71	145.23	144.86	144.61	144.50	144.51	144.67	144.97	145.43	146.05	146.85	147.82	148.98	150.34	138.05	142.72	147.61	152.74	158.13	171.62	177.55	183.77	190.30	197.15

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT				4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh				254.97	254.46	263.24	272.32	281.72	291.43	301.49	311.89	322.65	333.78	345.30	357.21	369.53	382.28	395.47	409.12	423.23	437.83	452.94	468.56	484.73	501.45	518.75	536.65	555.16

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.19			0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32	2.44	2.57
Per Unit Depreciation	Rs/kWh	0.55			0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Per Unit Int on term loan	Rs/kWh	0.50			0.96	0.90	0.83	0.76	0.70	0.63	0.56	0.50	0.43	0.36	0.30	0.23	0.17	0.10	0.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	Rs/kWh	0.57			0.44	0.45	0.46	0.48	0.49	0.51	0.52	0.54	0.56	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.71	0.74	0.76	0.79	0.82	0.85	0.88	0.92	0.95
Per unit RoE	Rs/kWh	0.69			0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.85	0.85	0.85	0.85	0.85
PU Tariff Components (Fixed)	Rs/kWh	3.49			3.49	3.43	3.42	3.41	3.40	3.40	3.40	3.40	3.41	3.42	3.44	3.45	3.48	3.50	3.54	3.25	3.36	3.47	3.59	3.72	4.04	4.18	4.32	4.48	4.64
PU Tariff Components (Variable)	Rs/kWh	7.73			5.79	5.99	6.19	6.41	6.63	6.86	7.09	7.34	7.59	7.85	8.12	8.40	8.69	8.99	9.30	9.62	9.96	10.30	10.65	11.02	11.40	11.80	12.20	12.62	13.06
PU Tariff Components (Total)	Rs/kWh	11.22			9.23	9.41	9.61	9.81	10.03	10.25	10.49	10.74	11.00	11.27	11.56	11.86	12.17	12.50	12.84	12.87	13.31	13.77	14.25	14.74	15.44	15.97	16.53	17.10	17.70

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6.2 Island: Non-Fossil Fuel (Other than Bagasse) based Cogeneration Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	8.5%
			PLF	%	53%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	562.00
			Capital Cost	Rs. Lakh	562.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	562.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	393.40
			Total equity amount	Rs. Lakh	168.60
			Loan Amount	Rs. Lakh	393.40
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	168.60
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	28.90
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related assumptions	Heat Rate	After Stabilization Period	kcal/kWh	3600.00
			During Stabilization Period	kcal/kWh	3600.00
		Base Price	Base Price of Bagasse	Rs./MT	4260.00
		GCV-Biomass	GCV-Biomass (Other than Bagasse)	kcal/kg	3100.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh	28.90	30.42	32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68	
Depreciation	Rs Lakh	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	
Interest on Loan	Rs Lakh	44.69	41.60	38.52	35.44	32.36	29.28	26.20	23.11	20.03	16.95	13.87	10.79	7.70	4.62	1.54	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Interest on working Capital	Rs Lakh	19.10	19.64	20.20	20.79	21.40	22.03	22.69	23.38	24.09	24.84	25.61	26.42	27.26	28.13	29.04	29.68	30.73	31.82	32.95	34.12	35.54	36.80	38.11	39.47	40.88	
Return on Equity	Rs Lakh	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	41.47	41.47	41.47	41.47	
Total Fixed Cost	Rs Lakh	151.60	150.58	149.65	148.84	148.13	147.55	147.09	146.75	146.56	146.50	146.60	146.86	147.28	147.87	148.65	135.87	140.19	144.72	149.47	154.46	168.66	174.14	179.90	185.93	192.27	

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price of Fuel	Rs/MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	
Biomass Cost	Rs Lakh	229.84	237.77	245.97	254.46	263.24	272.32	281.72	291.43	301.49	311.89	322.65	333.78	345.30	357.21	369.53	382.28	395.47	409.12	423.23	437.83	452.94	468.56	484.73	501.45	518.75	

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.05	0.68	0.72	0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32
Per Unit Depreciation	R\$/kWh	0.56	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Per Unit Int on term loan	R\$/kWh	0.56	1.05	0.98	0.91	0.83	0.76	0.69	0.62	0.54	0.47	0.40	0.33	0.25	0.18	0.11	0.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	R\$/kWh	0.57	0.45	0.46	0.48	0.49	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.75	0.78	0.80	0.84	0.87	0.90	0.93	0.96
Per unit RoE	R\$/kWh	0.78	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.98	0.98	0.98	0.98	0.98	0.98
PU Tariff Components (Fixed)	R\$/kWh	3.73	3.57	3.54	3.52	3.50	3.48	3.47	3.46	3.45	3.45	3.45	3.45	3.45	3.46	3.48	3.50	3.20	3.30	3.40	3.52	3.63	3.97	4.10	4.23	4.37	4.52
PU Tariff Components (Variable)	R\$/kWh	7.12	5.41	5.59	5.79	5.99	6.19	6.41	6.63	6.86	7.09	7.34	7.59	7.85	8.12	8.40	8.69	8.99	9.30	9.62	9.96	10.30	10.65	11.02	11.40	11.80	12.20
PU Tariff Components (Total)	R\$/kWh	10.65	8.97	9.14	9.31	9.49	9.68	9.88	10.09	10.31	10.54	10.78	11.04	11.31	11.59	11.88	12.19	12.19	12.60	13.03	13.47	13.93	14.62	15.12	15.63	16.17	16.73

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
O&M Expenses	Rs Lakh		30.42	32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68	103.86	
Depreciation	Rs Lakh		26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
Interest on Loans	Rs Lakh		44.69	41.60	38.52	35.44	32.36	29.28	26.20	23.11	20.03	16.95	13.87	10.79	7.70	4.62	1.54	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh		19.71	20.27	20.86	21.46	22.10	22.76	23.45	24.16	24.91	25.68	26.49	27.32	28.20	29.10	30.05	30.73	31.82	32.95	34.12	35.34	36.80	38.11	39.47	40.88	42.34	
Return on Equity	Rs Lakh		32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69
Total Fixed Cost	Rs Lakh		153.73	152.80	151.99	151.28	150.70	150.24	149.90	149.71	149.65	149.75	150.01	150.43	151.02	151.80	152.77	140.19	144.72	149.47	154.46	159.68	174.14	179.90	185.93	192.27	198.91	

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Likness Cost	Rs/Lakh		237.77	245.97	254.46	263.24	272.32	281.72	291.43	301.49	311.89	322.65	333.78	345.30	357.21	369.53	382.28	395.47	409.12	423.23	437.83	452.94	468.56	484.73	501.45	518.75	536.65

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.11		0.72	0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32	2.44
Per Unit Depreciation	Rs/kWh	0.56		0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Per Unit Int on term loan	Rs/kWh	0.56		1.05	0.98	0.91	0.83	0.76	0.69	0.62	0.54	0.47	0.40	0.33	0.25	0.18	0.11	0.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	Rs/kWh	0.59		0.46	0.48	0.49	0.50	0.52	0.54	0.55	0.57	0.59	0.60	0.62	0.64	0.66	0.68	0.71	0.72	0.75	0.78	0.80	0.83	0.87	0.90	0.93	0.96	1.00
Per unit RoE	Rs/kWh	0.78		0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.98	0.98	0.98	0.98	0.98
PU Tariff Components (Fixed)	Rs/kWh	3.60		3.62	3.59	3.58	3.56	3.54	3.53	3.53	3.52	3.52	3.52	3.53	3.54	3.55	3.57	3.59	3.30	3.40	3.52	3.63	3.76	4.10	4.23	4.37	4.52	4.68
PU Tariff Components (Variable)	Rs/kWh	7.37		5.59	5.79	5.99	6.19	6.41	6.63	6.86	7.09	7.34	7.59	7.85	8.12	8.40	8.69	8.99	9.30	9.62	9.96	10.30	10.65	11.02	11.40	11.80	12.20	12.62
PU Tariff Components (Total)	Rs/kWh	10.97		9.21	9.38	9.56	9.75	9.95	10.16	10.38	10.61	10.86	11.11	11.38	11.66	11.96	12.26	12.59	12.60	13.03	13.47	13.93	14.41	15.12	15.63	16.17	16.73	17.30

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh			32.01	33.69	35.46	37.33	39.29	41.35	43.52	45.80	48.21	50.74	53.40	56.21	59.16	62.26	65.53	68.97	72.59	76.40	80.42	84.64	89.08	93.76	98.68	103.86	109.31
Depreciation	Rs Lakh			26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	26.23	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
Interest on Loan	Rs Lakh			44.69	41.60	38.52	35.44	32.36	29.28	26.20	23.11	20.03	16.95	13.87	10.79	7.70	4.62	1.54	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Interest on working Capital	Rs Lakh			20.34	20.92	21.53	22.17	22.83	23.51	24.23	24.97	25.75	26.55	27.39	28.27	29.17	30.12	31.10	31.82	32.95	34.12	35.34	36.60	38.11	39.47	40.88	42.34	43.86
Return on Equity	Rs Lakh			32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	32.69	41.47	41.47	41.47	41.47	41.47
Total Fixed Cost	Rs Lakh			155.95	155.14	154.43	153.85	153.39	153.05	152.86	152.80	152.90	153.16	153.58	154.17	154.95	155.92	157.08	144.72	149.47	154.46	159.68	165.17	179.90	185.93	192.27	198.91	205.88

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh			254.97	254.46	263.24	272.32	281.72	291.43	301.49	311.89	322.65	333.78	345.30	357.21	369.53	382.28	395.47	409.12	423.23	437.83	452.94	468.56	484.73	501.45	518.75	536.65	555.16

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.16			0.75	0.79	0.83	0.88	0.92	0.97	1.02	1.08	1.13	1.19	1.26	1.32	1.39	1.46	1.54	1.62	1.71	1.80	1.89	1.99	2.10	2.21	2.32	2.44	2.57
Per Unit Depreciation	Rs/kWh	0.56			0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Per Unit Int on term loan	Rs/kWh	0.56			1.05	0.98	0.91	0.83	0.76	0.69	0.62	0.54	0.47	0.40	0.33	0.25	0.18	0.11	0.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
Per unit interest on working capital	Rs/kWh	0.61			0.48	0.49	0.51	0.52	0.54	0.55	0.57	0.59	0.61	0.62	0.64	0.66	0.69	0.71	0.73	0.75	0.78	0.80	0.83	0.86	0.90	0.93	0.96	1.00	1.03
Per unit RoE	Rs/kWh	0.78			0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
PU Tariff Components (Fixed)	Rs/kWh	3.68			3.67	3.65	3.63	3.62	3.61	3.60	3.60	3.59	3.60	3.60	3.61	3.63	3.64	3.67	3.70	3.40	3.52	3.63	3.76	3.89	4.23	4.37	4.52	4.68	4.84
PU Tariff Components (Variable)	Rs/kWh	7.62			5.79	5.99	6.19	6.41	6.63	6.86	7.09	7.34	7.59	7.85	8.12	8.40	8.69	8.99	9.30	9.62	9.96	10.30	10.65	11.02	11.40	11.80	12.20	12.62	13.06
PU Tariff Components (Total)	Rs/kWh	11.30			9.45	9.64	9.83	10.02	10.24	10.46	10.69	10.93	11.19	11.45	11.74	12.03	12.34	12.66	13.00	13.03	13.47	13.93	14.41	14.91	15.63	16.17	16.73	17.30	17.90

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7 GENERIC TARIFF FOR BIOMASS GASIFIER BASED POWER PROJECTS

7.1 Mainland: Biomass Gasifier-based Power Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	85%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	677.00
			Capital Cost	Rs. Lakh	677.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	677.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	473.90
			Total equity amount	Rs. Lakh	203.10
			Loan Amount	Rs. Lakh	473.90
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	203.10
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	72.69
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related Assumptions	Base Price	Base Price of Bagasse	Rs./MT	4260.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	1.25
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	18	19	20	21	22	23	24	25	
Q&M Expenses	Rs Lakh	72.69	76.51	80.52	84.75	89.20	93.88	98.81	104.00	109.46	115.21	121.25	127.62	134.32	141.37	148.79	156.61	164.83	173.48	182.59	192.17	202.26	212.88	224.06	235.82	248.20
Depreciation	Rs Lakh	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54
Interest on Loan	Rs Lakh	49.25	45.85	42.46	39.06	35.66	32.27	28.87	25.47	22.08	18.68	15.28	11.89	8.49	5.09	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	30.21	31.16	32.16	33.19	34.27	35.39	36.55	37.77	39.03	40.34	41.70	43.12	44.60	46.13	47.73	49.06	50.85	52.72	54.66	56.67	58.95	61.12	63.38	65.72	68.16
Return on Equity	Rs Lakh	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	43.71	43.71	43.71	43.71	43.71
Total Fixed Cost	Rs Lakh	218.19	219.57	221.18	223.05	225.18	227.58	230.28	233.28	236.61	240.27	244.29	248.68	253.46	258.65	264.27	253.66	263.67	274.19	285.24	296.84	318.46	331.25	344.68	358.79	373.60

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price of Fuel	Rs/MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	396.77	410.46	424.62	439.27	454.42	470.10	486.32	503.10	520.46	538.41	556.99	576.20	596.08	616.65	637.92	659.93	682.70	706.25	730.62	755.82	781.90	808.87	836.78	865.65	895.51

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.71	1.08	1.14	1.20	1.26	1.33	1.40	1.47	1.55	1.63	1.72	1.81	1.90	2.00	2.11	2.22	2.34	2.46	2.59	2.72	2.87	3.02	3.17	3.34	3.52	3.70
Per Unit Depreciation	R\$/kWh	0.42	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Per Unit Int on term loan	R\$/kWh	0.38	0.73	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.59	0.45	0.46	0.48	0.49	0.51	0.53	0.55	0.56	0.58	0.60	0.62	0.64	0.67	0.69	0.71	0.73	0.76	0.79	0.82	0.85	0.88	0.91	0.95	0.98	1.02
Per unit RoE	R\$/kWh	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.65	0.65	0.65	0.65	
PU Tariff Components (Fixed)	R\$/kWh	3.63	3.25	3.27	3.30	3.33	3.36	3.39	3.43	3.48	3.53	3.58	3.64	3.71	3.78	3.86	3.94	3.78	3.93	4.09	4.25	4.43	4.75	4.94	5.14	5.35	5.57
PU Tariff Components (Variable)	R\$/kWh	7.90	5.92	6.12	6.33	6.55	6.78	7.01	7.25	7.50	7.76	8.03	8.31	8.59	8.89	9.20	9.51	9.84	10.18	10.53	10.89	11.27	11.66	12.06	12.48	12.91	13.35
PU Tariff Components (Total)	R\$/kWh	11.54	9.17	9.39	9.63	9.88	10.13	10.40	10.69	10.98	11.29	11.61	11.95	12.30	12.67	13.05	13.45	13.62	14.11	14.62	15.15	15.70	16.41	17.00	17.62	18.26	18.93

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Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh		410.46	424.62	439.27	454.42	470.10	486.32	503.10	520.46	538.41	556.99	576.20	596.08	616.65	637.92	659.93	682.70	706.25	730.62	755.82	781.90	808.87	836.78	865.65	895.51	926.41

Levilled Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Discount Factors				1.00	0.92	0.84	0.77	0.71	0.65	0.59	0.54	0.50	0.46	0.42	0.38	0.35	0.32	0.30	0.27	0.25	0.23	0.21	0.19	0.18	0.16	0.15	0.14	0.12
Levilled Tariff	Rs/kWh	11.92																										
Discount Rate	9.10%																											

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh		80.52	84.75	89.20	93.88	98.81	104.00	109.46	115.21	121.25	127.62	134.32	141.37	148.79	156.61	164.83	173.48	182.59	192.17	202.26	212.88	224.06	235.82	248.20	261.23	274.95		
Depreciation	Rs Lakh		31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.54	31.54	31.54	31.54	31.54	31.54	31.54	31.54	31.54	31.54
Interest on Loan	Rs Lakh		49.25	45.85	42.46	39.06	35.66	32.27	28.87	25.47	22.08	18.68	15.28	11.89	8.49	5.09	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		32.30	33.33	34.41	35.53	36.69	37.90	39.16	40.48	41.84	43.26	44.74	46.27	47.87	49.53	51.26	52.72	54.66	56.67	58.76	60.93	63.38	65.72	68.16	70.69	73.31		
Return on Equity	Rs Lakh		34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45	34.45
Total Fixed Cost	Rs Lakh		228.11	229.98	232.11	234.52	237.21	240.22	243.54	247.20	251.22	255.61	260.39	265.58	271.20	277.28	283.83	274.19	285.24	296.84	309.02	321.81	344.68	358.79	373.60	389.17	405.51		

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh			424.62	439.27	454.42	470.13	486.32	503.10	520.46	538.41	556.99	576.20	596.08	616.65	637.92	659.93	682.70	706.25	730.62	755.82	781.90	808.87	836.78	865.65	895.51	926.41	958.37

Unit/Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.90			1.20	1.26	1.33	1.40	1.47	1.55	1.63	1.72	1.81	1.90	2.00	2.11	2.22	2.34	2.46	2.59	2.72	2.87	3.02	3.17	3.34	3.52	3.70	3.90	4.10
Per Unit Depreciation	Rs/kWh	0.42			0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	Rs/kWh	0.38			0.73	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.64			0.48	0.50	0.51	0.53	0.55	0.57	0.58	0.60	0.62	0.65	0.67	0.69	0.71	0.74	0.76	0.79	0.82	0.85	0.88	0.91	0.95	0.98	1.02	1.05	1.09
Per unit RoE	Rs/kWh	0.52			0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.65	0.65	0.65	0.65	0.65
PU Tariff Components (Fixed)	Rs/kWh	3.86			3.40	3.43	3.46	3.50	3.54	3.58	3.63	3.69	3.75	3.81	3.88	3.96	4.04	4.13	4.23	4.09	4.25	4.43	4.61	4.80	5.14	5.35	5.57	5.80	6.05
PU Tariff Components (Variable)	Rs/kWh	8.46			6.33	6.55	6.78	7.01	7.25	7.50	7.76	8.03	8.31	8.59	8.89	9.20	9.51	9.84	10.18	10.53	10.89	11.27	11.66	12.06	12.48	12.91	13.35	13.81	14.29
PU Tariff Components (Total)	Rs/kWh	12.32			9.73	9.98	10.24	10.51	10.79	11.08	11.39	11.72	12.05	12.40	12.77	13.16	13.56	13.98	14.41	14.62	15.15	15.70	16.27	16.86	17.62	18.26	18.93	19.62	20.34

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7.2 Island: Biomass Gasifier-based Power Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	10%
			PLF	%	85%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	677.00
			Capital Cost	Rs. Lakh	677.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	677.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	473.90
			Total equity amount	Rs. Lakh	203.10
			Loan Amount	Rs. Lakh	473.90
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	203.10
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	72.69
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Interest on WC		%	13.00%
6	Fuel Related Assumptions	Base Price	Base Price of Bagasse	Rs./MT	4260.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	1.25
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Q&M Expenses	Rs Lakh	72.69	76.51	80.52	84.75	89.20	93.88	98.81	104.00	109.46	115.21	121.25	127.62	134.32	141.37	148.79	156.61	164.83	173.48	182.59	192.17	202.26	212.88	224.06	235.82	248.20
Depreciation	Rs Lakh	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54
Interest on Loan	Rs Lakh	53.83	50.12	46.40	42.69	38.98	35.27	31.56	27.84	24.13	20.42	16.71	12.99	9.28	5.57	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh	32.99	34.02	35.09	36.21	37.37	38.58	39.84	41.14	42.50	43.92	45.39	46.93	48.52	50.18	51.91	53.34	55.29	57.32	59.42	61.61	64.11	66.47	68.91	71.46	74.10
Return on Equity	Rs Lakh	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	49.95	49.95	49.95	49.95
Total Fixed Cost	Rs Lakh	230.48	231.61	232.99	234.62	236.52	238.70	241.17	243.95	247.06	250.51	254.32	258.51	263.09	268.09	273.53	262.86	273.04	283.71	294.92	306.70	329.86	342.84	356.46	370.77	385.79

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price of Fuel	Rs/MT	4260.00	4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83
Biomass Cost	Rs Lakh	396.77	410.46	424.62	439.27	454.42	470.10	486.32	503.10	520.46	538.41	556.99	576.20	596.08	616.65	637.92	659.93	682.70	706.25	730.62	755.82	781.90	808.87	836.78	865.65	895.51

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	Rs/kWh	1.67	1.08	1.14	1.20	1.26	1.33	1.40	1.47	1.55	1.63	1.72	1.81	1.90	2.00	2.11	2.22	2.34	2.46	2.59	2.72	2.87	3.02	3.17	3.34	3.52	3.70
Per Unit Depreciation	Rs/kWh	0.43	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	Rs/kWh	0.43	0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.64	0.49	0.51	0.52	0.54	0.56	0.58	0.59	0.61	0.63	0.65	0.68	0.70	0.72	0.75	0.77	0.80	0.82	0.85	0.89	0.92	0.96	0.99	1.03	1.07	1.10
Per unit RoE	Rs/kWh	0.60	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.74	0.74	0.74	0.74	0.74
PU Tariff Components (Fixed)	Rs/kWh	3.77	3.44	3.45	3.47	3.50	3.53	3.56	3.60	3.64	3.68	3.74	3.79	3.85	3.92	4.00	4.08	3.92	4.07	4.23	4.40	4.57	4.92	5.11	5.32	5.53	5.75
PU Tariff Components (Variable)	Rs/kWh	7.79	5.92	6.12	6.33	6.55	6.78	7.01	7.25	7.50	7.76	8.03	8.31	8.59	8.89	9.20	9.51	9.84	10.18	10.53	10.89	11.27	11.66	12.06	12.48	12.91	13.35
PU Tariff Components (Total)	Rs/kWh	11.56	9.35	9.57	9.81	10.05	10.30	10.57	10.85	11.14	11.45	11.76	12.10	12.45	12.81	13.19	13.59	13.76	14.25	14.76	15.29	15.84	16.58	17.17	17.79	18.44	19.11

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Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT		4406.97	4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54
Biomass Cost	Rs Lakh		410.46	424.62	439.27	454.42	470.10	486.32	503.10	520.46	538.41	556.99	576.20	596.08	616.65	637.92	659.93	682.70	706.25	730.62	755.82	781.90	808.87	836.78	865.65	895.51	926.41

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh			80.52	84.75	89.20	93.88	98.81	104.00	109.46	115.21	121.25	127.62	134.32	141.37	148.79	156.61	164.83	173.48	182.59	192.17	202.26	212.88	224.06	235.82	248.20	261.23	274.95
Depreciation	Rs Lakh			31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54	13.54
Interest on Loan	Rs Lakh			53.83	50.12	46.40	42.69	38.98	35.27	31.56	27.84	24.13	20.42	16.71	12.99	9.28	5.57	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh			35.26	36.37	37.53	38.74	40.00	41.31	42.67	44.06	45.56	47.09	48.69	50.35	52.07	53.87	55.73	57.32	59.42	61.61	63.87	66.23	68.91	71.46	74.10	76.84	79.70
Return on Equity	Rs Lakh			39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	39.38	49.95	49.95	49.95	49.95
Total Fixed Cost	Rs Lakh			240.58	242.21	244.11	246.29	248.76	251.54	254.65	258.10	261.91	266.10	270.68	275.68	281.11	287.01	293.39	283.71	294.92	306.70	319.05	332.03	356.46	370.77	385.79	401.57	418.14

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT			4559.01	4716.30	4879.01	5047.33	5221.47	5401.61	5587.96	5780.75	5980.18	6186.50	6399.93	6620.73	6849.15	7085.44	7329.89	7582.77	7844.38	8115.01	8394.98	8684.60	8984.22	9294.18	9614.83	9946.54	10289.69
Biomass Cost	Rs Lakh			424.62	439.27	454.42	470.13	486.32	503.10	520.46	538.41	556.99	576.20	596.08	616.65	637.92	659.93	682.70	706.25	730.62	755.82	781.90	808.87	836.78	865.65	895.51	926.41	958.37

Unit/Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.86			1.20	1.26	1.33	1.40	1.47	1.55	1.63	1.72	1.81	1.90	2.00	2.11	2.22	2.34	2.46	2.59	2.72	2.87	3.02	3.17	3.34	3.52	3.70	3.90	4.10
Per Unit Depreciation	Rs/kWh	0.43			0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Per Unit Int on term loan	Rs/kWh	0.43			0.80	0.75	0.69	0.64	0.58	0.53	0.47	0.42	0.36	0.30	0.25	0.19	0.14	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.68			0.53	0.54	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.73	0.75	0.78	0.80	0.83	0.85	0.89	0.92	0.95	0.99	1.03	1.07	1.10	1.15	1.19
Per unit RoE	Rs/kWh	0.60			0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.74	0.74	0.74	0.74	0.74
PU Tariff Components (Fixed)	Rs/kWh	4.00			3.59	3.61	3.64	3.67	3.71	3.75	3.80	3.85	3.91	3.97	4.04	4.11	4.19	4.28	4.37	4.43	4.40	4.57	4.76	4.95	5.32	5.53	5.75	5.99	6.24
PU Tariff Components (Variable)	Rs/kWh	8.34			6.33	6.55	6.78	7.01	7.25	7.50	7.76	8.03	8.31	8.59	8.89	9.20	9.51	9.84	10.18	10.53	10.89	11.27	11.66	12.06	12.48	12.91	13.35	13.81	14.29
PU Tariff Components (Total)	Rs/kWh	12.33			9.92	10.16	10.42	10.68	10.96	11.25	11.56	11.88	12.21	12.56	12.93	13.31	13.70	14.12	14.56	14.76	15.29	15.84	16.42	17.01	17.79	18.44	19.11	19.80	20.53

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8 GENERIC TARIFF FOR BIOGAS BASED POWER PROJECTS

8.1 Mainland: Biogas-based Power Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	90%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	1354.00
			Capital Cost	Rs. Lakh	1354.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	1354.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	947.80
			Total equity amount	Rs. Lakh	406.20
			Loan Amount	Rs. Lakh	947.80
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	406.20
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	72.25
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Paramaters
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			
		Biomass Stock		Months	4.00
		Interest on WC		%	12.00%
6	Fuel Related Assumptions	Base Price	Base Price of Bagasse	Rs./MT	1702.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	3.00
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Arifit Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh		72.25	76.04	80.04	84.24	88.66	93.31	98.21	103.37	108.80	114.51	120.52	126.85	133.51	140.52	147.89	155.66	163.83	172.43	181.48	191.01	201.04	211.59	222.70	234.39	246.70
Depreciation	Rs Lakh		63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	
Interest on Loan	Rs Lakh		98.50	91.70	84.91	78.12	71.33	64.53	57.74	50.95	44.15	37.36	30.57	23.78	16.98	10.19	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		32.91	33.81	34.74	35.72	36.74	37.81	38.92	40.07	41.28	42.54	43.85	45.21	46.64	48.12	49.66	50.61	52.42	54.31	56.27	58.30	60.79	62.98	65.26	67.63	70.09
Return on Equity	Rs Lakh		68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	87.41	87.41	87.41	87.41	87.41
Total Fixed Cost	Rs Lakh		335.75	333.65	331.79	330.17	328.82	327.75	326.96	326.48	326.32	326.50	327.03	327.93	329.22	330.92	333.05	302.25	312.24	322.73	333.74	345.30	376.32	389.07	402.46	416.52	431.28

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price of Fuel	Rs/MT	1702.00	1760.72	1821.46	1884.30	1949.31	2016.56	2086.14	2158.11	2232.56	2309.59	2389.27	2471.70	2556.97	2645.18	2736.44	2830.85	2928.52	3029.55	3134.07	3242.19	3354.05	3469.76	3589.47	3713.31	3841.42
Biomass Cost	Rs Lakh	402.83	416.73	431.11	445.98	461.37	477.28	493.75	510.79	528.41	546.64	565.50	585.01	605.19	626.07	647.67	670.01	693.13	717.04	741.78	767.37	793.84	821.23	849.56	878.87	909.19

Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.64	1.04	1.10	1.15	1.21	1.28	1.34	1.41	1.49	1.57	1.65	1.74	1.83	1.92	2.02	2.13	2.24	2.36	2.48	2.61	2.75	2.90	3.05	3.21	3.38	3.55
Per Unit Depreciation	R\$/kWh	0.82	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Per Unit Int on term loan	R\$/kWh	0.73	1.42	1.32	1.22	1.13	1.03	0.93	0.83	0.73	0.64	0.54	0.44	0.34	0.24	0.15	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.61	0.47	0.49	0.50	0.51	0.53	0.54	0.56	0.58	0.59	0.61	0.63	0.65	0.67	0.69	0.72	0.73	0.76	0.78	0.81	0.84	0.88	0.91	0.94	0.97	1.01
Per unit RoE	R\$/kWh	1.01	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.26	1.26	1.26	1.26
PU Tariff Components (Fixed)	R\$/kWh	4.81	4.84	4.81	4.78	4.76	4.74	4.72	4.71	4.70	4.70	4.71	4.72	4.74	4.77	4.80	4.35	4.50	4.65	4.81	4.97	5.42	5.60	5.80	6.00	6.21	
PU Tariff Components (Variable)	R\$/kWh	7.75	5.80	6.00	6.21	6.42	6.65	6.87	7.11	7.36	7.61	7.87	8.15	8.43	8.72	9.02	9.33	9.65	9.98	10.33	10.68	11.05	11.43	11.83	12.24	12.66	13.10
PU Tariff Components (Total)	R\$/kWh	12.56	10.64	10.81	10.99	11.18	11.38	11.60	11.82	12.06	12.31	12.58	12.86	13.15	13.46	13.78	14.13	14.00	14.48	14.98	15.49	16.03	16.85	17.43	18.03	18.66	19.31

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OR&M Expenses	Rs Lakh		76.04	80.04	84.24	88.66	93.31	98.21	103.37	108.80	114.51	120.52	126.85	133.51	140.52	147.89	155.66	163.83	172.43	181.48	191.01	201.04	211.59	222.70	234.39	246.70	259.65
Depreciation	Rs Lakh		63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08
Interest on Loan	Rs Lakh		98.50	91.70	84.91	78.12	71.33	64.53	57.74	50.95	44.15	37.36	30.57	23.78	16.98	10.19	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		33.95	34.88	35.86	36.88	37.95	39.05	40.21	41.42	42.68	43.99	45.35	46.77	48.26	49.80	51.41	52.42	54.31	56.27	58.30	60.41	62.98	65.26	67.63	70.09	72.64
Return on Equity	Rs Lakh		68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	87.41	87.41	87.41	87.41	87.41
Total Fixed Cost	Rs Lakh		340.58	338.72	337.10	335.75	334.68	333.89	333.42	333.26	333.43	333.96	334.86	336.15	337.85	339.98	342.56	312.24	322.73	333.74	345.30	357.44	389.07	402.46	416.52	431.28	446.79

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT	1760.72	1821.46	1884.30	1949.31	2016.56	2086.14	2158.11	2232.56	2309.59	2389.27	2471.70	2556.97	2645.18	2736.44	2830.85	2928.52	3029.55	3134.07	3242.19	3354.05	3469.76	3589.47	3713.31	3841.42	3973.95	4111.00
Biomass Cost	Rs Lakh	416.73	431.11	445.98	461.37	477.28	493.75	510.79	528.41	546.64	565.50	585.01	605.19	626.07	647.67	670.01	693.13	717.04	741.78	767.37	793.84	821.23	849.56	878.87	909.19	940.56	973.00

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.73		1.10	1.15	1.21	1.28	1.34	1.41	1.49	1.57	1.65	1.74	1.83	1.92	2.02	2.13	2.24	2.36	2.48	2.61	2.75	2.90	3.05	3.21	3.38	3.55	3.74
Per Unit Depreciation	Rs/kWh	0.82		0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Per Unit Int on term loan	Rs/kWh	0.73		1.42	1.32	1.22	1.13	1.03	0.93	0.83	0.73	0.64	0.54	0.44	0.34	0.24	0.15	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.63		0.49	0.50	0.52	0.53	0.55	0.56	0.58	0.60	0.61	0.63	0.65	0.67	0.70	0.72	0.74	0.76	0.78	0.81	0.84	0.87	0.91	0.94	0.97	1.01	1.05
Per unit RoE	Rs/kWh	1.01		0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.26	1.26	1.26	1.26	1.26
PU Tariff Components (Fixed)	Rs/kWh	4.92		4.91	4.88	4.86	4.84	4.82	4.81	4.80	4.80	4.80	4.81	4.82	4.84	4.87	4.90	4.93	4.50	4.65	4.81	4.97	5.15	5.60	5.80	6.00	6.21	6.44
PU Tariff Components (Variable)	Rs/kWh	8.02		6.00	6.21	6.42	6.65	6.87	7.11	7.36	7.61	7.87	8.15	8.43	8.72	9.02	9.33	9.65	9.98	10.33	10.68	11.05	11.43	11.83	12.24	12.66	13.10	13.55
PU Tariff Components (Total)	Rs/kWh	12.94		10.91	11.09	11.28	11.48	11.70	11.92	12.16	12.41	12.68	12.96	13.25	13.56	13.88	14.23	14.58	14.48	14.98	15.49	16.03	16.58	17.43	18.03	18.66	19.31	19.96

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tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses	Rs Lakh			80.04	84.24	88.66	93.31	98.21	103.37	108.80	114.51	120.52	126.85	133.51	140.52	147.89	155.66	163.83	172.43	181.48	191.01	201.04	211.59	222.70	234.39	246.70	259.65	273.28
Depreciation	Rs Lakh			63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08
Interest on Loan	Rs Lakh			98.50	91.70	84.91	78.12	71.33	64.53	57.74	50.95	44.15	37.36	30.57	23.78	16.98	10.19	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh			35.02	36.00	37.02	38.08	39.19	40.35	41.56	42.81	44.12	45.49	46.91	48.40	49.94	51.55	53.23	54.31	60.41	56.27	58.30	60.41	62.61	65.26	67.63	70.09	72.64
Return on Equity	Rs Lakh			68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91	68.91
Total Fixed Cost	Rs Lakh			345.65	344.04	342.69	341.61	340.83	340.35	340.19	340.36	340.89	341.79	343.08	344.78	346.91	349.49	352.55	322.73	333.74	345.30	357.44	370.19	402.46	416.52	431.28	446.79	463.07

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT			1821.46	1884.30	1949.31	2016.56	2086.14	2158.11	2232.56	2309.59	2389.27	2471.70	2556.97	2645.18	2736.44	2830.85	2928.52	3029.55	3134.07	3242.19	3354.05	3469.76	3589.47	3713.31	3841.42	3973.95	4111.05
Biomass Cost	Rs Lakh			431.11	445.98	461.37	477.28	493.75	510.79	528.41	546.64	565.50	585.01	605.19	626.07	647.67	670.01	693.13	717.04	741.78	767.37	793.84	821.23	849.56	878.87	909.19	940.56	973.01

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.82			1.15	1.21	1.28	1.34	1.41	1.49	1.57	1.65	1.74	1.83	1.92	2.02	2.13	2.24	2.36	2.48	2.61	2.75	2.90	3.05	3.21	3.38	3.55	3.74	3.94
Per Unit Depreciation	Rs/kWh	0.82			0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Per Unit Int on term loan	Rs/kWh	0.73			1.42	1.32	1.22	1.13	1.03	0.93	0.83	0.73	0.64	0.54	0.44	0.34	0.24	0.15	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.65			0.50	0.52	0.53	0.55	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.77	0.78	0.81	0.84	0.87	0.90	0.94	0.97	1.01	1.05	1.08
Per unit RoE	Rs/kWh	1.01			0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.26	1.26	1.26	1.26	1.26
PU Tariff Components (Fixed)	Rs/kWh	5.03			4.98	4.96	4.94	4.92	4.91	4.90	4.90	4.90	4.91	4.92	4.94	4.97	5.00	5.03	5.08	4.65	4.81	4.97	5.15	5.33	5.80	6.00	6.21	6.44	6.67
PU Tariff Components (Variable)	Rs/kWh	8.30			6.21	6.42	6.65	6.87	7.11	7.36	7.61	7.87	8.15	8.43	8.72	9.02	9.33	9.65	9.98	10.33	10.68	11.05	11.43	11.83	12.24	12.66	13.10	13.55	14.01
PU Tariff Components (Total)	Rs/kWh	13.33			11.19	11.38	11.58	11.80	12.02	12.26	12.51	12.78	13.06	13.35	13.66	13.98	14.33	14.68	15.06	14.98	15.49	16.03	16.58	17.16	18.03	18.66	19.31	19.98	20.68

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8.2 Island: Biogas-based Power Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	12%
			PLF	%	90%
			COD	dd/mm/yyyy	
			Useful Life	Years	25.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	1354.00
			Capital Cost	Rs. Lakh	1354.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	1354.00
3	Financial Assumption	Debt Equity	Tariff Period	years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	947.80
			Total equity amount	Rs. Lakh	406.20
			Loan Amount	Rs. Lakh	947.80
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	406.20
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	2.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	72.25
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	For Fixed Charges			
		O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		For Variable Charges			

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Biomass Stock		Months	4.00
		Interest on WC		%	13.00%
6	Fuel Related Assumptions	Base Price	Base Price of Bagasse	Rs./MT	1702.00
		Fuel Type and mix	Biomass Price Escalation Factor	%	3.45%
			Specific Fuel Consumption	kg/kWh	3.00
7	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
O&M Expenses	Rs Lakh		72.25	76.04	80.04	84.24	88.66	93.31	98.21	103.37	108.80	114.51	120.52	126.85	133.51	140.52	147.89	155.66	163.83	172.43	181.48	191.01	201.04	211.59	222.70	234.39	246.70
	Rs Lakh		63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08
Interest on Loan	Rs Lakh		107.66	100.23	92.81	85.38	77.96	70.54	63.11	55.69	48.26	40.84	33.41	25.99	18.56	11.14	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Rs Lakh		36.13	37.09	38.10	39.14	40.24	41.38	42.57	43.81	45.10	46.45	47.86	49.33	50.86	52.46	54.12	55.13	57.11	59.15	61.28	63.48	66.24	68.62	71.10	73.67	76.33
Return on Equity	Rs Lakh		78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	99.90	99.90	99.90	99.90	99.90
	Rs Lakh		357.98	355.31	352.88	350.70	348.80	347.17	345.83	344.80	344.10	343.74	343.73	344.10	344.87	346.05	347.66	316.62	326.77	337.41	348.59	360.32	394.26	407.20	420.78	435.04	450.02

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Base Price of Fuel	Rs/MT	1702.00	1760.72	1821.46	1884.30	1949.31	2016.56	2086.14	2158.11	2232.56	2309.59	2389.27	2471.70	2556.97	2645.18	2736.44	2830.85	2928.52	3029.55	3134.07	3242.19	3354.05	3469.76	3589.47	3713.31	3841.42
Biomass Cost	Rs Lakh	402.83	416.73	431.11	445.98	461.37	477.28	493.75	510.79	528.41	546.64	565.50	585.01	605.19	626.07	647.67	670.01	693.13	717.04	741.78	767.37	793.84	821.23	849.56	878.87	909.19

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Per Unit O&M Expenses	R\$/kWh	1.61	1.04	1.10	1.15	1.21	1.28	1.34	1.41	1.49	1.57	1.65	1.74	1.83	1.92	2.02	2.13	2.24	2.36	2.48	2.61	2.75	2.90	3.05	3.21	3.38	3.55
Per Unit Depreciation	R\$/kWh	0.83	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Per Unit Int on term loan	R\$/kWh	0.83	1.55	1.44	1.34	1.23	1.12	1.02	0.91	0.80	0.70	0.59	0.48	0.37	0.27	0.16	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	R\$/kWh	0.66	0.52	0.53	0.55	0.56	0.58	0.60	0.61	0.63	0.65	0.67	0.69	0.71	0.73	0.76	0.78	0.79	0.82	0.85	0.88	0.91	0.95	0.99	1.02	1.06	1.10
Per unit RoE	R\$/kWh	1.15	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.44	1.44	1.44	1.44	1.44
PU Tariff Components (Fixed)	R\$/kWh	5.07	5.16	5.12	5.08	5.05	5.02	5.00	4.98	4.97	4.96	4.95	4.95	4.96	4.97	4.98	5.01	4.56	4.71	4.86	5.02	5.19	5.68	5.87	6.06	6.27	6.48
PU Tariff Components (Variable)	R\$/kWh	7.64	5.80	6.00	6.21	6.42	6.65	6.87	7.11	7.36	7.61	7.87	8.15	8.43	8.72	9.02	9.33	9.65	9.98	10.33	10.68	11.05	11.43	11.83	12.24	12.66	13.10
PU Tariff Components (Total)	R\$/kWh	12.71	10.96	11.12	11.29	11.48	11.67	11.88	12.09	12.32	12.57	12.82	13.10	13.38	13.68	14.00	14.34	14.21	14.69	15.19	15.71	16.24	17.11	17.69	18.30	18.93	19.58

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Tariff Components (Fixed charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
OR&M Expenses	Rs Lakh		76.04	80.04	84.24	88.66	93.31	98.21	103.37	108.80	114.51	120.52	126.85	133.51	140.52	147.89	155.66	163.83	172.43	181.48	191.01	201.04	211.59	222.70	234.39	246.70	259.65
Depreciation	Rs Lakh		63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08	27.08
Interest on Loan	Rs Lakh		107.66	100.23	92.81	85.38	77.96	70.54	63.11	55.69	48.26	40.84	33.41	25.99	18.56	11.14	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital	Rs Lakh		37.26	38.26	39.31	40.40	41.54	42.73	43.97	45.27	46.62	48.03	49.50	51.03	52.62	54.28	56.02	57.11	59.15	61.28	63.48	65.77	68.62	71.10	73.67	76.33	79.11
Return on Equity	Rs Lakh		78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	99.90	99.90	99.90	99.90	99.90
Total Fixed Cost	Rs Lakh		362.90	360.47	358.29	356.38	354.75	353.42	352.39	351.69	351.33	351.32	351.69	352.46	353.64	355.25	357.32	326.77	337.41	348.59	360.32	372.65	407.20	420.78	435.04	450.02	465.74

Tariff Components (Variable Charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Base Price of Fuel	Rs/MT		1760.72	1821.46	1884.30	1949.31	2016.56	2086.14	2158.11	2232.56	2309.59	2389.27	2471.70	2556.97	2645.18	2736.44	2830.85	2928.52	3029.55	3134.07	3242.19	3354.05	3469.76	3589.47	3713.31	3841.42	3973.95	4111.00
Biomass Cost	Rs Lakh		416.73	431.11	445.98	461.37	477.28	493.75	510.79	528.41	546.64	565.50	585.01	605.19	626.07	647.67	670.01	693.13	717.04	741.78	767.37	793.84	821.23	849.56	878.87	909.19	940.56	972.00

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Per Unit O&M Expenses	Rs/kWh	1.69		1.10	1.15	1.21	1.28	1.34	1.41	1.49	1.57	1.65	1.74	1.83	1.92	2.02	2.13	2.24	2.36	2.48	2.61	2.75	2.90	3.05	3.21	3.38	3.55	3.74
Per Unit Depreciation	Rs/kWh	0.83		0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Per Unit Int on term loan	Rs/kWh	0.83		1.55	1.44		1.34	1.23	1.12	1.02	0.91	0.80	0.70	0.59	0.48	0.37	0.27	0.16	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.68		0.54	0.55	0.57	0.58	0.60	0.62	0.63	0.65	0.67	0.69	0.71	0.73	0.76	0.78	0.81	0.82	0.85	0.88	0.91	0.95	0.99	1.02	1.06	1.10	1.14
Per unit RoE	Rs/kWh	1.15		1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
PU Tariff Components (Fixed)	Rs/kWh	5.18		5.23	5.19	5.16	5.13	5.11	5.09	5.08	5.07	5.06	5.06	5.07	5.08	5.09	5.12	5.15	4.71	4.86	5.02	5.19	5.37	5.87	6.06	6.27	6.48	6.71
PU Tariff Components (Variable)	Rs/kWh	7.90		6.00	6.21	6.42	6.65	6.87	7.11	7.36	7.61	7.87	8.15	8.43	8.72	9.02	9.33	9.65	9.98	10.33	10.68	11.05	11.43	11.83	12.24	12.66	13.10	13.55
PU Tariff Components (Total)	Rs/kWh	13.08		11.23	11.40	11.58	11.78	11.98	12.20	12.43	12.68	12.93	13.21	13.49	13.79	14.11	14.45	14.80	14.69	15.19	15.71	16.24	16.80	17.69	18.30	18.93	19.58	20.26

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FY 2026-27

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Tariff Components (Fixed charges)		Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
O&M Expenses		Rs Lakh			80.04	84.24	88.66	93.31	98.21	103.37	108.80	114.51	120.52	126.85	133.51	140.52	147.89	155.66	163.83	172.43	181.48	191.01	201.04	211.59	222.70	234.39	246.70	259.65	273.28
Depreciation		Rs Lakh			63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19	63.19
Interest on Loan		Rs Lakh			107.66	100.23	92.81	85.38	77.96	70.54	63.11	55.69	48.26	40.84	33.41	25.99	18.56	11.14	3.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest on working Capital		Rs Lakh			38.43	39.47	40.57	41.71	42.90	44.14	45.43	46.78	48.19	49.66	51.19	52.79	54.45	56.18	57.99	59.15	61.28	63.48	65.77	68.16	71.10	73.67	76.33	79.11	81.99
Return on Equity		Rs Lakh			78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75	78.75
Total Fixed Cost		Rs Lakh			368.06	365.88	363.97	362.34	361.01	359.98	359.28	358.92	358.91	359.28	360.05	361.23	362.84	364.91	367.47	337.41	348.59	360.32	372.65	385.58	420.78	435.04	450.02	465.74	482.25

Tariff Components (Variable Charges)	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Base Price of Fuel	Rs/MT			1821.46	1884.30	1949.31	2016.56	2086.14	2158.11	2232.56	2309.59	2389.27	2471.70	2556.97	2645.18	2736.44	2830.85	2928.52	3029.55	3134.07	3242.19	3354.05	3469.76	3589.47	3713.31	3841.42	3973.95	4111.05
Biomass Cost	Rs Lakh			431.11	445.98	461.37	477.28	493.75	510.79	528.41	546.64	565.50	585.01	605.19	626.07	647.67	670.01	693.13	717.04	741.78	767.37	793.84	821.23	849.56	878.87	909.19	940.56	973.01

Per Unit Tariff Components	Unit	Levelised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Per Unit O&M Expenses	Rs/kWh	1.78			1.15	1.21	1.28	1.34	1.41	1.49	1.57	1.65	1.74	1.83	1.92	2.02	2.13	2.24	2.36	2.48	2.61	2.75	2.90	3.05	3.21	3.38	3.55	3.74	3.94
Per Unit Depreciation	Rs/kWh	0.83			0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Per Unit Int on term loan	Rs/kWh	0.83			1.55	1.44	1.34	1.23	1.12	1.02	0.91	0.80	0.70	0.59	0.48	0.37	0.27	0.16	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per unit interest on working capital	Rs/kWh	0.70			0.55	0.57	0.58	0.60	0.62	0.64	0.65	0.67	0.69	0.72	0.74	0.76	0.78	0.81	0.84	0.85	0.88	0.91	0.95	0.98	1.02	1.06	1.10	1.14	1.18
Per unit RoE	Rs/kWh	1.15			1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.44	1.44	1.44	1.44	1.44
PU Tariff Components (Fixed)	Rs/kWh	5.29			5.30	5.27	5.24	5.22	5.20	5.19	5.17	5.17	5.17	5.17	5.19	5.20	5.23	5.26	5.29	4.86	5.02	5.19	5.37	5.55	6.06	6.27	6.48	6.71	6.95
PU Tariff Components (Variable)	Rs/kWh	8.18			6.21	6.42	6.65	6.87	7.11	7.36	7.61	7.87	8.15	8.43	8.72	9.02	9.33	9.65	9.98	10.33	10.68	11.05	11.43	11.83	12.24	12.66	13.10	13.55	14.01
PU Tariff Components (Total)	Rs/kWh	13.47			11.51	11.69	11.89	12.09	12.31	12.54	12.79	13.04	13.31	13.60	13.90	14.22	14.56	14.91	15.28	15.19	15.71	16.24	16.80	17.38	18.30	18.93	19.58	20.26	20.96

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9 GENERIC TARIFF FOR REFUSED DERIVED FUEL (RDF) BASED MUNICIPAL SOLID WASTE (MSW) POWER PROJECTS

9.1 Mainland: Refused Derived Fuel-based Municipal Solid Waste Power Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	15%
			PLF (Stabilization for 1st Year)		65%
			PLF(Stabilization from 2nd Year)	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	20.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/ MW	2200.00
			Capital Cost	Rs. Lakh	2200.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	2200.00
3	Financial Assumption	Debt Equity	Tariff Period	years	20.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	1540.00
			Total equity amount	Rs. Lakh	660.00
			Loan Amount	Rs. Lakh	1540.00
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	10.75%
		Equity Component	Equity Amount	Rs. Lakh	660.00
			RoE for 1 st 20 years	%p.a.	16.96%
			RoE after 20 year	%p.a.	21.52%
			Discount Rate (equ. To WACC)	%	9.10%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	4.00%
		Incentives	GBI ,if any	Rs. Lakh	
			Period for GBI	Years	
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/ MW	187.00
		O&M Expenses p.a.		Rs. Lakh	
		Escalation Factor		%	5.25%
5	Working Capital	O&M Expenses		Month	1.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00
		Interest on WC		%	12.00%
6	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

For FY 2024-25

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Tariff Components of Fixed Cost	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
O&M Expenses	Rs Lakh		187.00	196.82	207.15	218.03	229.47	241.52	254.20	267.54	281.59	296.37	311.93	328.31	345.55	363.69	382.78	402.88	424.03	446.29	469.72	494.38
Depreciation	Rs Lakh		102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	88.00	88.00	88.00	88.00	88.00
Interest on Loan	Rs Lakh		160.04	149.00	137.97	126.93	115.89	104.85	93.82	82.78	71.74	60.70	49.67	38.63	27.59	16.56	5.52	-	-	-	-	-
Interest on working Capital	Rs Lakh		16.81	17.06	17.34	17.65	17.99	18.35	18.75	19.17	19.64	20.14	20.67	21.25	21.87	22.53	23.24	23.81	24.85	25.94	27.09	28.30
Return on Equity	Rs Lakh		111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96
Total Cost of Generation	Rs Lakh		578.47	577.51	577.09	577.23	577.98	579.35	581.39	584.13	587.60	591.84	596.90	602.82	609.64	617.40	626.17	626.65	648.84	672.19	696.77	722.64

Per Unit Tariff Components	Unit	Levellers Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Per Unit O&M Expenses	Rs/kWh	4.68	3.86	3.30	3.48	3.66	3.85	4.05	4.26	4.49	4.72	4.97	5.23	5.51	5.80	6.10	6.42	6.76	7.11	7.49	7.88	8.29
Per Unit Depreciation	Rs/kWh	1.73	2.12	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.48	1.48	1.48	1.48	1.48
Per Unit Int on term loan	Rs/kWh	1.55	3.30	2.50	2.31	2.13	1.94	1.76	1.57	1.39	1.20	1.02	0.83	0.65	0.46	0.28	0.09	-	-	-	-	-
Per unit interest on working capital	Rs/kWh	0.34	0.35	0.29	0.29	0.30	0.30	0.31	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.42	0.44	0.45	0.47
Per unit RoE	Rs/kWh	1.92	2.31	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
PU Tariff Components (Total)	Rs/kWh	10.22	11.94	9.69	9.68	9.68	9.70	9.72	9.75	9.80	9.86	9.93	10.01	10.11	10.23	10.36	10.50	10.51	10.88	11.28	11.69	12.12

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Per Unit Tariff Components	Unit	Levellerised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Per Unit O&M Expenses	Rs/kWh	4.93		4.06	3.48	3.66	3.85	4.05	4.26	4.49	4.72	4.97	5.23	5.51	5.80	6.10	6.42	6.76	7.11	7.49	7.88	8.29	8.73
Per Unit Depreciation	Rs/kWh	1.73		2.12	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.48	1.48	1.48	1.48	1.48
Per Unit Int on term loan	Rs/kWh	1.55		3.30	2.50	2.31	2.13	1.94	1.76	1.57	1.39	1.20	1.02	0.83	0.65	0.46	0.28	0.09	-	-	-	-	-
Per unit interest on working capital	Rs/kWh	0.35		0.36	0.29	0.30	0.31	0.31	0.32	0.33	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.41	0.42	0.44	0.45	0.47	0.50
Per unit RoE	Rs/kWh	1.92		2.31	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
PU Tariff Components (Total)	Rs/kWh	10.48		12.16	9.87	9.87	9.89	9.91	9.94	9.99	10.05	10.12	10.20	10.30	10.42	10.55	10.69	10.86	10.88	11.28	11.69	12.12	12.58

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FY 2026-27

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Tariff Components of Fixed Cost	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
O&M Expenses	Rs Lakh				207.15	218.03	229.47	241.52	254.20	267.54	281.59	296.37	311.93	328.31	345.55	363.69	382.78	402.88	424.03	446.29	469.72	494.38	520.34	547.65
Depreciation	Rs Lakh				102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	88.00	88.00	88.00	88.00	88.00
Interest on Loan	Rs Lakh				160.04	149.00	137.97	126.93	115.89	104.85	93.82	82.78	71.74	60.70	49.67	38.63	27.59	16.56	5.52	-	-	-	-	-
Interest on working Capital	Rs Lakh				17.79	18.10	18.44	18.80	19.20	19.63	20.09	20.59	21.12	21.70	22.32	22.98	23.69	24.45	25.26	25.94	27.09	28.30	29.57	30.91
Return on Equity	Rs Lakh				111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96	111.96
Total Cost of Generation	Rs Lakh				599.61	599.76	600.50	601.88	603.92	606.65	610.12	614.37	619.43	625.34	632.16	639.93	648.70	658.51	669.44	672.19	696.77	722.64	749.87	778.52

Per Unit Tariff Components	Unit	Levelled Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Per Unit O&M Expenses	Rs/kWh	5.19			4.28	3.66	3.85	4.05	4.26	4.49	4.72	4.97	5.23	5.51	5.80	6.10	6.42	6.76	7.11	7.49	7.88	8.29	8.73	9.19
Per Unit Depreciation	Rs/kWh	1.73			2.12	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.48	1.48	1.48	1.48	1.48
Per Unit Int on term loan	Rs/kWh	1.55			3.30	2.50	2.31	2.13	1.94	1.76	1.57	1.39	1.20	1.02	0.83	0.65	0.46	0.28	0.09	-	-	-	-	-
Per unit interest on working capital	Rs/kWh	0.36			0.37	0.30	0.31	0.32	0.32	0.33	0.34	0.35	0.35	0.36	0.37	0.39	0.40	0.41	0.42	0.44	0.45	0.47	0.50	0.52
Per unit RoE	Rs/kWh	1.92			2.31	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
PU Tariff Components (Total)	Rs/kWh	10.75			12.38	10.06	10.07	10.10	10.13	10.18	10.24	10.31	10.39	10.49	10.61	10.74	10.88	11.05	11.23	11.28	11.69	12.12	12.58	13.06

Levelised Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Discount Factors					1.00	0.92	0.84	0.77	0.71	0.65	0.59	0.54	0.50	0.46	0.42	0.38	0.35	0.32	0.30	0.27	0.25	0.23	0.21	0.19
Levelised Tariff	Rs/kWh	10.75																						
Discount Rate	9.10%																							

9.2 Island: Refused Derived Fuel-based Municipal Solid Waste Power Projects - Assumptions and Parameters for Tariff Determination

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1.00
			Aux Consumption	%	15%
			PLF (Stabilization for 1st Year)		65%
			PLF(Stabilization from 2nd Year)	%	80%
			COD	dd/mm/yyyy	
			Useful Life	Years	20.00
2	Project Cost	Capital Cost/MW	Normative Capital Cost	Rs. Lakhs/MW	2200.00
			Capital Cost	Rs. Lakh	2200.00
			Capital Subsidy, if any	Rs. Lakh	0.00
			Net Capital Cost	Rs. Lakh	2200.00
3	Financial Assumption	Debt Equity	Tariff Period	years	20.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total debt amount	Rs. Lakh	1540.00
			Total equity amount	Rs. Lakh	660.00
			Loan Amount	Rs. Lakh	1540.00
			Moratorium Period	Years	
			Repayment Period (including moratorium)	Years	15.00
			Interest Rate	%	11.75%
		Equity Component	Equity Amount	Rs. Lakh	660.00
			RoE for 1 st 20 years	%p.a.	19.39%
			RoE after 20 year	%p.a.	24.59%
			Discount Rate (equ. To WACC)	%	10.15%
		Fiscal Assumptions	Income Tax	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Dep Rate for 1 st 15 years	%	4.67%
			Dep rate 16 th year onwards	%	4.00%
4	O&M Expenses	Normative O&M Expenses		Rs. Lakh/MW	187.00
			O&M Expenses p.a.	Rs. Lakh	
			Escalation Factor	%	5.25%
5	Working Capital	O&M Expenses		Month	1.00
		Maintenance Spares	% of O&M Expenses	%	15%
		Receivables		Month	2.00

SL.No.	Assumption Head	Sub-head	Sub-head(2)	Unit	Parameters
		Interest on WC		%	13.00%
6	Generation & Sale of Energy	Total No. of Hours		Hrs.	8766.00

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Tariff Components of Fixed Cost	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
O&M Expenses	Rs Lakh	187.00	196.82	207.15	218.03	229.47	241.52	254.20	267.54	281.59	296.37	311.93	328.31	345.55	363.69	382.78	402.88	424.03	446.29	469.72	494.38
Depreciation	Rs Lakh	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	88.00	88.00	88.00	88.00	88.00
Interest on Loan	Rs Lakh	174.93	162.86	150.80	138.73	126.67	114.61	102.54	90.48	78.42	66.35	54.29	42.22	30.16	18.10	6.03	-	-	-	-	-
Interest on working Capital	Rs Lakh	18.92	19.18	19.46	19.77	20.11	20.48	20.89	21.33	21.81	22.33	22.89	23.49	24.14	24.84	25.59	26.20	27.32	28.50	29.75	31.06
Return on Equity	Rs Lakh	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96
Total Cost of Generation	Rs Lakh	611.47	609.48	608.03	607.15	606.88	607.23	608.26	609.98	612.44	615.68	619.74	624.65	630.47	637.25	645.02	645.03	667.31	690.75	715.43	741.40

Per Unit Tariff Components	Unit	Levellerised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Per Unit O&M Expenses	Rs/kWh	4.62	3.86	3.30	3.48	3.66	3.85	4.05	4.26	4.49	4.72	4.97	5.23	5.51	5.80	6.10	6.42	6.76	7.11	7.49	7.88	8.29
Per Unit Depreciation	Rs/kWh	1.74	2.12	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.48	1.48	1.48	1.48	1.48
Per Unit Int on term loan	Rs/kWh	1.75	3.61	2.73	2.53	2.33	2.13	1.92	1.72	1.52	1.32	1.11	0.91	0.71	0.51	0.30	0.10	-	-	-	-	-
Per unit interest on working capital	Rs/kWh	0.37	0.39	0.32	0.33	0.33	0.34	0.34	0.35	0.36	0.37	0.37	0.38	0.39	0.41	0.42	0.43	0.44	0.46	0.48	0.50	0.52
Per unit RoE	Rs/kWh	2.20	2.64	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
PU Tariff Components (Total)	Rs/kWh	10.68	12.63	10.22	10.20	10.19	10.18	10.19	10.20	10.23	10.27	10.33	10.40	10.48	10.58	10.69	10.82	10.82	11.19	11.59	12.00	12.44

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Tariff Components of Fixed Cost	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
O&M Expenses	Rs Lakh		196.82	207.15	218.03	229.47	241.52	254.20	267.54	281.59	296.37	311.93	328.31	345.55	363.69	382.78	402.88	424.03	446.29	469.72	494.38	520.34
Depreciation	Rs Lakh		102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	88.00	88.00	88.00	88.00	88.00
Interest on Loan	Rs Lakh		174.93	162.86	150.80	138.73	126.67	114.61	102.54	90.48	78.42	66.35	54.29	42.22	30.16	18.10	6.03	-	-	-	-	-
Interest on working Capital	Rs Lakh		19.44	19.73	20.04	20.38	20.75	21.16	21.60	22.08	22.60	23.16	23.76	24.41	25.11	25.85	26.66	27.32	28.50	29.75	31.06	32.44
Return on Equity	Rs Lakh		127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96
Total Cost of Generation	Rs Lakh		621.81	620.36	619.48	619.21	619.56	620.59	622.31	624.77	628.01	632.07	636.98	642.80	649.58	657.36	666.19	667.31	690.75	715.43	741.40	768.73

Unit Tariff Components	Unit	Levellers	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Per Unit O&M Expenses	Rs/kWh	4.86		4.06	3.48	3.66	3.85	4.05	4.26	4.49	4.72	4.97	5.23	5.51	5.80	6.10	6.42	6.76	7.11	7.49	7.88	8.29	8.73
Per Unit Depreciation	Rs/kWh	1.74		2.12	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.48	1.48	1.48	1.48	1.48
Per Unit Int on term loan	Rs/kWh	1.75		3.61	2.73	2.53	2.33	2.13	1.92	1.72	1.52	1.32	1.11	0.91	0.71	0.51	0.30	0.10	-	-	-	-	-
Per unit interest on working capital	Rs/kWh	0.38		0.40	0.33	0.34	0.34	0.35	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.45	0.46	0.48	0.50	0.52	0.54
Per unit RoE	Rs/kWh	2.20		2.64	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
PU Tariff Components (Total)	Rs/kWh	10.93		12.84	10.41	10.39	10.39	10.39	10.41	10.44	10.48	10.54	10.60	10.69	10.78	10.90	11.03	11.18	11.19	11.59	12.00	12.44	12.90

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Tariff Components of Fixed Cost	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
O&M Expenses	Rs Lakh				207.15	218.03	229.47	241.52	254.20	267.54	281.59	296.37	311.93	328.31	345.55	363.69	382.78	402.88	424.03	446.29	469.72	494.38	520.34	547.65
Depreciation	Rs Lakh				102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	102.67	88.00	88.00	88.00	88.00	88.00
Interest on Loan	Rs Lakh				174.93	162.86	150.80	138.73	126.67	114.61	102.54	90.48	78.42	66.35	54.29	42.22	30.16	18.10	6.03	-	-	-	-	-
Interest on working Capital	Rs Lakh				19.99	20.30	20.64	21.02	21.42	21.87	22.35	22.87	23.42	24.03	24.68	25.37	26.12	26.92	27.78	28.50	29.75	31.06	32.44	33.89
Return on Equity	Rs Lakh				127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96	127.96
Total Cost of Generation	Rs Lakh				632.69	631.82	631.54	631.90	632.92	634.64	637.10	640.34	644.40	649.31	655.13	661.91	669.69	678.52	688.46	690.75	715.43	741.40	768.73	797.50

Per Unit Tariff Components	Unit	Levellerised Tariff	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Per Unit O&M Expenses	Rs/kWh	5.11			4.28	3.66	3.85	4.05	4.26	4.49	4.72	4.97	5.23	5.51	5.80	6.10	6.42	6.76	7.11	7.49	7.88	8.29	8.73	9.19
Per Unit Depreciation	Rs/kWh	1.74			2.12	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.48	1.48	1.48	1.48	1.48
Per Unit Int on term loan	Rs/kWh	1.75			3.61	2.73	2.53	2.33	2.13	1.92	1.72	1.52	1.32	1.11	0.91	0.71	0.51	0.30	0.10	-	-	-	-	-
Per unit interest on working capital	Rs/kWh	0.40			0.41	0.34	0.35	0.35	0.36	0.37	0.37	0.38	0.39	0.40	0.41	0.43	0.44	0.45	0.47	0.48	0.50	0.52	0.54	0.57
Per unit RoE	Rs/kWh	2.20			2.64	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
PU Tariff Components (Total)	Rs/kWh	11.20			13.06	10.60	10.59	10.60	10.62	10.65	10.69	10.74	10.81	10.89	10.99	11.10	11.23	11.38	11.55	11.59	12.00	12.44	12.90	13.38

Levelised Tariff	Unit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Discount Factors					1.00	0.91	0.82	0.75	0.68	0.62	0.56	0.51	0.46	0.42	0.38	0.35	0.31	0.28	0.26	0.23	0.21	0.19	0.18	0.16
Levelised Tariff	Rs/kWh	11.20																						
Discount Rate	10.15%																							