

CEKC KE Tariff Order FY 2020-21

[illegible]

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.1C
					State Maharashtra
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./MT	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.1 D
				State	Punjab
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./MT	3960.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.1 E
					State Rajasthan
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./MT	3305.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.1 F
					State Tamil Nadu
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./MT	3272.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.1 G
					State Telangana
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42
5	Working Capital		O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
6	Fuel Related Assumptions	Biomass	Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
			Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./MT	3326.00
7	Generation and Sale of Power	Number of Hours	GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.1 H
					State
					Uttar Pradesh
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./MT	3384.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Annexure 2.1 L				
Assumption for Biomass Based Rankine Cycle Project Parameters				State Other States
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW 1
			Aux Consumption	% 10.00%
			Plant Load Factor	% 80.00%
			Useful Life	Years 25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW 559.00
			Capital Cost	Rs. Lakh 559.00
			Capital Subsidy	Rs. Lakh 0
			Net Capital Cost	Rs. Lakh 559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years 25
			Debt	% 70%
			Equity	% 30%
		Debt Component	Total Debt Amount	Rs. Lakh 391.30
			Total Equity Amount	Rs. Lakh 167.70
			Loan Amount	Rs. Lakh 391.30
			Moratorium Period	Years 0
			Repayment Period (including Moratorium)	Years 15
			Interest Rate	% 9.67%
		Equity Component	Equity Amount	Rs. Lakh 167.70
			Return on Equity for First 20 years	% p.a. 16.96%
			Return on Equity after 20 years	% p.a. 21.52%
			Discount Rate	% 8.61%
		Tax Rate	Corporate Tax Rate	% 34.94%
			MAT Rate	% 17.47%
		Depreciation	Depreciation Rate for 1st 15 years	% 4.67%
			Depreciation Rate 16th years onwards	% 2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW 46.42
			O&M expenses p.a	Rs. Lakh 46.42
			Escalation factor	% 3.84%
5	Working Capital		O&M expenses p.a	Month 1
			Maintenance Spares	% of O&M expenses 15.00%
			Receivables	Days 1.5
			Interest on Working Capital	% per annum 11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh 4200.00
			Fuel Price	Rs./MT 3557.00
			GCV Biomass	kcal/kg 3100.00
			Biomass price escalation factor	% 5.00%
7	Generation and Sale of Power	Number of Hours		Hours 8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.2A
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	State	Andhra Pradesh
				Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.2B
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Haryana Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	15.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Normative O&M expense	Depreciation	%	4.67%
			Depreciation Rate 15th years onwards	%	2.00%
			Depreciation Rate 16th years onwards	%	2.00%
5	Working Capital	O&M expenses p.a	Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
6	Fuel Related Assumptions	Biomass	Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
			Heat Rate	Kcal/kWh	4200.00
7	Generation and Sale of Power	Number of Hours	Fuel Price	Rs./T	3786.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.2C
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					State	Punjab
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	12.00%	
			Plant Load Factor	%	80.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cos	Rs. Lakh/MW	600.00	
			Capital Cost	Rs. Lakh	600.00	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	600.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	420.00	
			Total Equity Amount	Rs. Lakh	180.00	
			Loan Amount	Rs. Lakh	420.00	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
		Equity Component	Interest Rate	%	9.67%	
			Equity Amount	Rs. Lakh	180.00	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 30 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
MAT Rate	%		17.47%			
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.00%			
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42		
		O&M expenses p.a	Rs. Lakh	46.42		
		Escalation factor	%	3.64%		
5	Working Capital	O&M expenses p.a	Month	1		
		Maintenance Spares	% of O&M expenses	%	15.00%	
		Receivables	Days	1.5		
		Interest on Working Capital	% per annum	11.17%		
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00	
			Fuel Price	Rs./T	3960.00	
			GCV Biomass	kcal/kg	3100.00	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.2E
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	State Unit	Rajasthan Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cos.	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.64%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3305.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.60%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.2F
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	18.95%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3272.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

[illegible]

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.2G	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Telangana Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	12.00%	
			Plant Load Factor	%	80.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00	
			Capital Cost	Rs. Lakh	600.00	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	600.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	420.00	
			Total Equity Amount	Rs. Lakh	180.00	
			Loan Amount	Rs. Lakh	420.00	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
		Equity Component	Interest Rate	%	9.67%	
			Equity Amount	Rs. Lakh	180.00	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.60%			
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42	
			O&M expenses p.a	Rs. Lakh	46.42	
			Escalation factor	%	3.84%	
5	Working Capital		O&M expenses p.a	Month	1	
			Maintenance Spares	% of O&M exepenses	%	15.00%
			Receivables	Days	1.5	
			Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/KWh	4200.00	
			Fuel Price	Rs./T	3326.00	
			GCV Biomass	kcal/kg	3100.00	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.2H
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Uttar Pradesh Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
		Tax Rate	Discount Rate	%	8.61%
			Corporate Tax Rate	%	34.94%
		Depreciation	MAT Rate	%	17.47%
			Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3384.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.23
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	State	Other States
				Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3557.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3A
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.32%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3325.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3B
				State	Haryana
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
		Depreciation	MAT Rate	%	17.47%
4	O&M Expenses		Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
			Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
5	Working Capital		Escalation factor	%	3.64%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
6	Fuel Related Assumptions	Biomass	Interest on Working Capital	% per annum	11.17%
			Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3766.00
			GCV Biomass	kcal/kg	3100.00
7	Generation and Sale of Power	Number of Hours	Biomass price escalation factor	%	5.00%
				Hours	8766.00

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3C
					Maharashtra
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3D
				State	Punjab
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3960.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3E
				State	Rajasthan
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3305.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3F
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Tamil Nadu Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3272.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3G
					Telangana
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters				State	Annexure 2.3H
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Uttar Pradesh Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3384.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.3I
				State	Other States
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	15.00%	
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3557.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters				State	Annexure 2.4A
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Andhra Pradesh Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
		Depreciation	MAT Rate	%	17.47%
Depreciation Rate for 1st 15 years	%		4.67%		
Depreciation Rate 16th years onwards	%		2.60%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expences	15.00%	
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					State	Annexure 2.4B
					Haryana	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	12.00%	
			Plant Load Factor	%	80.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00	
			Capital Cost	Rs. Lakh	652.00	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	652.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	456.40	
			Total Equity Amount	Rs. Lakh	195.60	
			Loan Amount	Rs. Lakh	456.40	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
			Interest Rate	%	9.67%	
		Equity Component	Equity Amount	Rs. Lakh	195.60	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.00%			
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42		
		O&M expenses p.a	Rs. Lakh	46.42		
		Escalation factor	%	3.84%		
5	Working Capital	O&M expenses p.a	Month	1		
		Maintenance Spares	% of O&M expenses	%	15.00%	
		Receivables	Days	1.5		
		Interest on Working Capital	% per annum	11.17%		
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00	
			Fuel Price	Rs./T	3786.00	
			GCV Biomass	kcal/kg	3100.00	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

Assumption for Biomass Based Rankine Cycle Project Parameters				State	Annexure 2.4C
				Maharashtra	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
		Depreciation	MAT Rate	%	17.47%
Depreciation Rate for 1st 15 years	%		4.67%		
Depreciation Rate 16th years onwards	%		2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	15.00%	
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.4D
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
		Depreciation	MAT Rate	%	17.47%
			Depreciation Rate for 1st 15 years	%	4.67%
4	O&M Expenses	Normative O&M expense	Depreciation Rate 16th years onwards	%	2.00%
			Normalive O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
5	Working Capital	Escalation factor	O&M expenses p.a	%	3.64%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
			Receivables	%	15.00%
6	Fuel Related Assumptions	Biomass	Interest on Working Capital	Days	1.5
				% per annum	11.17%
			Heat Rate	Kcal/KWh	4200.00
			Fuel Price	Rs./T	3980.00
7	Generation and Sale of Power	Number of Hours	GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.4E
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Rajasthan Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	15.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3305.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.4F
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Tamil Nadu Parameters
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/KWh	4200.00
			Fuel Price	Rs./T	3272.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.4G
				State	Telangana
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters				State	Annexure 2.4H
				Uttar Pradesh	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/KWh	4200.00
			Fuel Price	Rs./T	3384.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Page 114

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.41
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Other States Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.80%
			Plant Load Factor	%	80.80%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Normative O&M expense	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
			Normative O&M expense	Rs. Lakh/MW	46.42
5	Working Capital	O&M expenses p.a	O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
6	Fuel Related Assumptions	Biomass	Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
			Heat Rate	Kcal/kWh	4200.00
			Fuel Price	Rs./T	3557.00
7	Generation and Sale of Power	Number of Hours	GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					State	Annexure 2.5A
					Andhra Pradesh	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	10.00%	
			Plant Load Factor	%	80.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00	
			Capital Cost	Rs. Lakh	559.00	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	559.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	391.30	
			Total Equity Amount	Rs. Lakh	167.70	
			Loan Amount	Rs. Lakh	391.30	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
		Equity Component	Interest Rate	%	9.67%	
			Equity Amount	Rs. Lakh	167.70	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.00%			
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42		
		O&M expenses p.a	Rs. Lakh	46.42		
		Escalation factor	%	3.84%		
5	Working Capital	O&M expenses p.a	Month	1		
		Maintenance Spares	% of O&M expenses	%	15.00%	
		Receivables	Days	1.5		
		Interest on Working Capital	% per annum	11.17%		
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00	
			Fuel Price	Rs./T	3326.00	
			GCV Biomass	kcal/kg	3100.00	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.5B
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Haryana Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses		Depreciation		
			Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
			Normative O&M expense	Rs. Lakh/MW	46.42
5	Working Capital		O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
6	Fuel Related Assumptions	Biomass	Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
			Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3786.00
7	Generation and Sale of Power	Number of Hours	GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
				Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.5C
					Maharashtra
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.5D
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
		Tax Rate	Discount Rate	%	8.61%
			Corporate Tax Rate	%	34.94%
		Depreciation	MAT Rate	%	17.47%
			Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3960.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Page 124

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					State	Rajasthan
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	10.00%	
			Plant Load Factor	%	80.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00	
			Capital Cost	Rs. Lakh	559.00	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	559.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	391.30	
			Total Equity Amount	Rs. Lakh	167.70	
			Loan Amount	Rs. Lakh	391.30	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
			Interest Rate	%	9.67%	
		Equity Component	Equity Amount	Rs. Lakh	167.70	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.00%			
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42		
		O&M expenses p.a	Rs. Lakh	46.42		
		Escalation factor	%	3.84%		
5	Working Capital	O&M expenses p.a	Month	1		
		Maintenance Spares	% of O&M expenses	%	15.00%	
		Receivables	Days	1.5		
		Interest on Working Capital	% per annum	11.17%		
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00	
			Fuel Price	Rs./T	3305.00	
			GCV Biomass	kcal/kg	3100.00	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.5F
S. No.	Assumption Head	Sub-Head	Sub-Head (a)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses		Depreciation		
			Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
			Normative O&M expense	Rs. Lakh/MW	46.42
5	Working Capital		O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
6	Fuel Related Assumptions	Biomass	Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
			Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3272.00
7	Generation and Sale of Power	Number of Hours	GCV Biomass	kcal/Kg	3100.00
			Biomass price escalation factor	%	5.00%
				Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.5G
					State
					Telangana
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
			Tariff Period	Years	25
3	Financial Assumption	Debt Equity	Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses		Depreciation		
			Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					State	Uttar Pradesh
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	10.00%	
			Plant Load Factor	%	80.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00	
			Capital Cost	Rs. Lakh	559.00	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	559.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	391.30	
			Total Equity Amount	Rs. Lakh	167.70	
			Loan Amount	Rs. Lakh	391.30	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
		Equity Component	Interest Rate	%	9.67%	
			Equity Amount	Rs. Lakh	167.70	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.00%			
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42		
		O&M expenses p.a	Rs. Lakh	46.42		
		Escalation factor	%	3.84%		
5	Working Capital	O&M expenses p.a	Month	1		
		Maintenance Spares	% of O&M expenses	%	15.00%	
		Receivables	Days	1.5		
		Interest on Working Capital	% per annum	11.17%		
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/KWh	4125.00	
			Fuel Price	Rs./T	3384.00	
			GCV Biomass	kcal/kg	3100.00	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.5f
State				Other States	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	559.00
			Capital Cost	Rs. Lakh	559.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	559.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	391.30
			Total Equity Amount	Rs. Lakh	167.70
			Loan Amount	Rs. Lakh	391.30
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	167.70
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3557.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6A
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Andhra Pradesh Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6B
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	15
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3786.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6C
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component:	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6D
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
			Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
5	Working Capital		Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
6	Fuel Related Assumptions	Biomass	Interest on Working Capital	% per annum	11.17%
			Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3980.00
			GCV Biomass	kcal/kg	3100.00
7	Generation and Sale of Power	Number of Hours	Biomass price escalation factor	%	5.00%
				Hours	8766.00

Page 142

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6E
S. No.	Assumption Head	Sub-Head	Sub-Header (2)	State	Rajasthan
				Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses		Depreciation	%	4.67%
			Depreciation Rate for 1st 15 years	%	2.00%
			Depreciation Rate 16th years onwards	%	
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3305.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8F
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Tamil Nadu Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	48.42
			O&M expenses p.a	Rs. Lakh	48.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3272.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8765.00

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6G
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	State Telangana Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
		Depreciation	MAT Rate	%	17.47%
			Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6H
Uttar Pradesh					
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3384.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.60

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.6I
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Other States Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	600.00
			Capital Cost	Rs. Lakh	600.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	600.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	420.00
			Total Equity Amount	Rs. Lakh	180.00
			Loan Amount	Rs. Lakh	420.00
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	180.00
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate - 6th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	15.00%	
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3557.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7A
					Andhra Pradesh
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Page 154

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7B
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normalive Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses		Depreciation		
			Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normalive O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/KWh	4125.00
			Fuel Price	Rs./T	3786.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

Statement of Tariff Components										Revenue (Rupees/Cycle Based Power Project)									
Tariff Breakdown										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									
Rupees/Cycle										Rupees/Cycle									

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7C
					Maharashtra
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./l	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7D
				State	Punjab
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normalive Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	46.42
			O&M expenses p.a	Rs. Lakh	46.42
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
			Receivables	Days	1.5
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/KWh	4125.00
			Fuel Price	Rs./T	3960.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7E
State					Rajasthan
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	60.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a.	16.86%
			Return on Equity after 20 years	% p.a.	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	7.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 15th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	5.00%
		Receivables		Days	15
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3305.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7F
					Tamil Nadu
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a.	16.96%
			Return on Equity after 20 years	% p.a.	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a.		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a.		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3272.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7G
State				Telangana	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	8.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters				State	Annexure 2.7H
				Uttar Pradesh	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.98%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3384.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.7f
				State	Other States
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	611.00
			Capital Cost	Rs. Lakh	611.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	611.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	427.70
			Total Equity Amount	Rs. Lakh	183.30
			Loan Amount	Rs. Lakh	427.70
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	183.30
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.87%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3557.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8A
State					Andhra Pradesh
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	18.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8B
					Haryana
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	15
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3786.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8C
State					Maharashtra
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3872.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

[illegible]

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8D
					State Punjab
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.64%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M exepenses	%	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3960.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8E
State					Rajasthan
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a.	16.96%
			Return on Equity after 20 years	% p.a.	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3305.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8F
					Tamil Nadu
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 15th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M expenses	15.00%
		Receivables		Days	1.5
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3272.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.BG
State					Telangana
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42	
		O&M expenses p.a	Rs. Lakh	46.42	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expenses	%	15.00%
		Receivables	Days	1.5	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3326.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8786.00

Assumption for Biomass Based Rankine Cycle Project Parameters					State	Uttar Pradesh
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	12.00%	
			Plant Load Factor	%	80.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00	
			Capital Cost	Rs. Lakh	652.00	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	652.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	456.40	
			Total Equity Amount	Rs. Lakh	195.60	
			Loan Amount	Rs. Lakh	456.40	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
		Equity Component	Interest Rate	%	9.67%	
			Equity Amount	Rs. Lakh	195.60	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.00%			
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	46.42		
		O&M expenses p.a	Rs. Lakh	46.42		
		Escalation factor	%	3.84%		
5	Working Capital	O&M expenses p.a	Month	1		
		Maintenance Spares	% of O&M expenses	%	15.00%	
		Receivables	Days	1.5		
		Interest on Working Capital	% per annum	11.17%		
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00	
			Fuel Price	Rs./T	3384.00	
			GCV Biomass	kcal/kg	3100.00	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

Assumption for Biomass Based Rankine Cycle Project Parameters					Annexure 2.8i
				State	Other States
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12.00%
			Plant Load Factor	%	80.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	652.00
			Capital Cost	Rs. Lakh	652.00
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	652.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	456.40
			Total Equity Amount	Rs. Lakh	195.60
			Loan Amount	Rs. Lakh	456.40
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	195.60
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	46.42
		O&M expenses p.a		Rs. Lakh	46.42
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	15
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Heat Rate	Kcal/kWh	4125.00
			Fuel Price	Rs./T	3557.00
			GCV Biomass	kcal/kg	3100.00
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Bagasse based Cogeneration Project Parameters					Annexure 3A
					Andhra Pradesh
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	8.50%
			Plant Load Factor	%	45.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00
			Capital Cost	Rs. Lakh	467
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	467.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	326.90
			Total Equity Amount	Rs. Lakh	140.10
			Loan Amount	Rs. Lakh	326.90
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	140.10
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	24.52
		O&M expenses p.a		Rs. Lakh	24.52
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M exepenses	%	0.15
		Receivables		Days	15
		Bagasse Stock		Months	4
6	Fuel Related Assumptions	Bagasse Stock	Interest on Working Capital	% per annum	11.17%
			Heat Rate	kcal/kWh	3690.00
			Fuel Price	Rs./T	1878.00
			GOV Bagasse	kcal/kg	2250.00
7	Generation and Sale of Power	Number of Hours	Bagasse price escalation factor	%	5.00%
				Hours	8766.00

CERC RE Tariff Order FY 2020-21

BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY									
BANK OF AMERICA COMPANY										BANK OF AMERICA COMPANY										BANK OF AMERICA																			

Assumption for Bagasse based Cogeneration Project Parameters				State	Annexure 3B
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	8.50%
			Plant Load Factor	%	53.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00
			Capital Cost	Rs. Lakh	467
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	467.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	326.90
			Total Equity Amount	Rs. Lakh	140.10
			Loan Amount	Rs. Lakh	326.90
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	140.10
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	24.52
		O&M expenses p.a		Rs. Lakh	24.52
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	0.15
		Receivables		Days	1.5
		Bagasse Stock		Months	4
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Bagasse Stock	Heat Rate	kcal/kWh	3800.00
			Fuel Price	Rs./T	2671.00
			GCV Bagasse	kcal/kg	2250.00
			Bagasse price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Bagasse based Cogeneration Project Parameters					Annexure 3C
					State
					Maharashtra
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	8.50%
			Plant Load Factor	%	60.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00
			Capital Cost	Rs. Lakh	467
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	467.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	326.90
			Total Equity Amount	Rs. Lakh	140.10
			Loan Amount	Rs. Lakh	326.90
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	140.10
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	24.52
		O&M expenses p.a		Rs. Lakh	24.52
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares	% of O&M exepenses	%	0.15
		Receivables		Days	1.5
		Bagasse Stock		Months	4
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Bagasse Stock	Heat Rate	kcal/kWh	3600.00
			Fuel Price	Rs./T	2632.00
			GCV Bagasse	kcal/kg	2250.00
			Bagasse price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

Detailed Project Performance Report									
Project ID	Project Name	Location	Status	Financial Performance				Operational Metrics	
				Budget (USD)	Actual (USD)	Variance (USD)	Completion %	Quality Score	Customer Satisfaction
101	Project A	Region X	Completed	1000000	980000	20000	95%	4.5	9.2
102	Project B	Region Y	In Progress	1200000	1150000	50000	80%	4.2	8.8
103	Project C	Region Z	On Hold	800000	800000	0	60%	4.0	8.5
104	Project D	Region A	Completed	900000	900000	0	90%	4.3	9.0
105	Project E	Region B	In Progress	1100000	1080000	20000	75%	4.1	8.7
106	Project F	Region C	On Hold	700000	700000	0	55%	3.9	8.3
107	Project G	Region D	Completed	1300000	1280000	20000	92%	4.4	9.1
108	Project H	Region E	In Progress	1400000	1350000	50000	85%	4.2	8.9
109	Project I	Region F	On Hold	950000	950000	0	65%	4.0	8.6
110	Project J	Region G	Completed	1250000	1230000	20000	93%	4.3	9.0
111	Project K	Region H	In Progress	1500000	1450000	50000	88%	4.1	8.8
112	Project L	Region I	On Hold	1050000	1050000	0	70%	4.0	8.7
113	Project M	Region J	Completed	1350000	1330000	20000	94%	4.4	9.1
114	Project N	Region K	In Progress	1600000	1550000	50000	90%	4.2	8.9
115	Project O	Region L	On Hold	1100000	1100000	0	75%	4.0	8.7
116	Project P	Region M	Completed	1450000	1430000	20000	96%	4.3	9.2
117	Project Q	Region N	In Progress	1700000	1650000	50000	92%	4.1	8.9
118	Project R	Region O	On Hold	1200000	1200000	0	80%	4.0	8.8
119	Project S	Region P	Completed	1550000	1530000	20000	97%	4.4	9.2
120	Project T	Region Q	In Progress	1800000	1750000	50000	94%	4.2	9.0
121	Project U	Region R	On Hold	1250000	1250000	0	85%	4.0	8.8
122	Project V	Region S	Completed	1650000	1630000	20000	98%	4.3	9.2
123	Project W	Region T	In Progress	1900000	1850000	50000	96%	4.1	9.0
124	Project X	Region U	On Hold	1300000	1300000	0	90%	4.0	8.9
125	Project Y	Region V	Completed	1750000	1730000	20000	99%	4.4	9.2
126	Project Z	Region W	In Progress	2000000	1950000	50000	98%	4.2	9.1
127	Project AA	Region X	On Hold	1350000	1350000	0	95%	4.0	8.9
128	Project AB	Region Y	Completed	1850000	1830000	20000	99%	4.3	9.2
129	Project AC	Region Z	In Progress	2100000	2050000	50000	97%	4.1	9.0
130	Project AD	Region A	On Hold	1400000	1400000	0	98%	4.0	8.9
131	Project AE	Region B	Completed	1950000	1930000	20000	99%	4.4	9.2
132	Project AF	Region C	In Progress	2200000	2150000	50000	99%	4.2	9.1
133	Project AG	Region D	On Hold	1450000	1450000	0	99%	4.0	8.9
134	Project AH	Region E	Completed	2050000	2030000	20000	99%	4.3	9.2
135	Project AI	Region F	In Progress	2300000	2250000	50000	99%	4.1	9.0
136	Project AJ	Region G	On Hold	1500000	1500000	0	99%	4.0	8.9
137	Project AK	Region H	Completed	2150000	2130000	20000	99%	4.4	9.2
138	Project AL	Region I	In Progress	2400000	2350000	50000	99%	4.2	9.1
139	Project AM	Region J	On Hold	1550000	1550000	0	99%	4.0	8.9
140	Project AN	Region K	Completed	2250000	2230000	20000	99%	4.3	9.2
141	Project AO	Region L	In Progress	2500000	2450000	50000	99%	4.1	9.0
142	Project AP	Region M	On Hold	1600000	1600000	0	99%	4.0	8.9
143	Project AQ	Region N	Completed	2350000	2330000	20000	99%	4.4	9.2
144	Project AR	Region O	In Progress	2600000	2550000	50000	99%	4.2	9.1
145	Project AS	Region P	On Hold	1650000	1650000	0	99%	4.0	8.9
146	Project AT	Region Q	Completed	2450000	2430000	20000	99%	4.3	9.2
147	Project AU	Region R	In Progress	2700000	2650000	50000	99%	4.1	9.0
148	Project AV	Region S	On Hold	1700000	1700000	0	99%	4.0	8.9
149	Project AW	Region T	Completed	2550000	2530000	20000	99%	4.4	9.2
150	Project AX	Region U	In Progress	2800000	2750000	50000	99%	4.2	9.1
151	Project AY	Region V	On Hold	1750000	1750000	0	99%	4.0	8.9
152	Project AZ	Region W	Completed	2650000	2630000	20000	99%	4.3	9.2
153	Project BA	Region X	In Progress	2900000	2850000	50000	99%	4.1	9.0
154	Project BB	Region Y	On Hold	1800000	1800000	0	99%	4.0	8.9
155	Project BC	Region Z	Completed	2750000	2730000	20000	99%	4.4	9.2
156	Project BD	Region A	In Progress	3000000	2950000	50000	99%	4.2	9.1
157	Project BE	Region B	On Hold	1850000	1850000	0	99%	4.0	8.9
158	Project BF	Region C	Completed	2850000	2830000	20000	99%	4.3	9.2
159	Project BG	Region D	In Progress	3100000	3050000	50000	99%	4.1	9.0
160	Project BH	Region E	On Hold	1900000	1900000	0	99%	4.0	8.9
161	Project BI	Region F	Completed	2950000	2930000	20000	99%	4.4	9.2
162	Project BJ	Region G	In Progress	3200000	3150000	50000	99%	4.2	9.1
163	Project BK	Region H	On Hold	1950000	1950000	0	99%	4.0	8.9
164	Project BL	Region I	Completed	3050000	3030000	20000	99%	4.3	9.2
165	Project BM	Region J	In Progress	3300000	3250000	50000	99%	4.1	9.0
166	Project BN	Region K	On Hold	2000000	2000000	0	99%	4.0	8.9
167	Project BO	Region L	Completed	3150000	3130000	20000	99%	4.4	9.2
168	Project BP	Region M	In Progress	3400000	3350000	50000	99%	4.2	9.1
169	Project BQ	Region N	On Hold	2050000	2050000	0	99%	4.0	8.9
170	Project BR	Region O	Completed	3250000	3230000	20000	99%	4.3	9.2
171	Project BS	Region P	In Progress	3500000	3450000	50000	99%	4.1	9.0
172	Project BT	Region Q	On Hold	2100000	2100000	0	99%	4.0	8.9
173	Project BU	Region R	Completed	3350000	3330000	20000	99%	4.4	9.2
174	Project BV	Region S	In Progress	3600000	3550000	50000	99%	4.2	9.1
175	Project BW	Region T	On Hold	2150000	2150000	0	99%	4.0	8.9
176	Project BX	Region U	Completed	3450000	3430000	20000	99%	4.3	9.2
177	Project BY	Region V	In Progress	3700000	3650000	50000	99%	4.1	9.0
178	Project BZ	Region W	On Hold	2200000	2200000	0	99%	4.0	8.9
179	Project CA	Region X	Completed	3550000	3530000	20000	99%	4.4	9.2
180	Project CB	Region Y	In Progress	3800000	3750000	50000	99%	4.2	9.1
181	Project CC	Region Z	On Hold	2250000	2250000	0	99%	4.0	8.9
182	Project CD	Region A	Completed	3650000	3630000	20000	99%	4.3	9.2
183	Project CE	Region B	In Progress	3900000	3850000	50000	99%	4.1	9.0
184	Project CF	Region C	On Hold	2300000	2300000	0	99%	4.0	8.9
185	Project CG	Region D	Completed	3750000	3730000	20000	99%	4.4	9.2
186	Project CH	Region E	In Progress	4000000	3950000	50000	99%	4.2	9.1
187	Project CI	Region F	On Hold	2350000	2350000	0	99%	4.0	8.9
188	Project CJ	Region G	Completed	3850000	3830000	20000	99%	4.3	9.2
189	Project CK	Region H	In Progress	4100000	4050000	50000	99%	4.1	9.0
190	Project CL	Region I	On Hold	2400000	2400000	0	99%	4.0	8.9
191	Project CM	Region J	Completed	3950000	3930000	20000	99%	4.4	9.2
192	Project CN	Region K	In Progress	4200000	4150000	50000	99%	4.2	9.1
193	Project CO	Region L	On Hold	2450000	2450000	0	99%	4.0	8.9
194	Project CP	Region M	Completed	4050000	4030000	20000	99%	4.3	9.2
195	Project CQ	Region N	In Progress	4300000	4250000	50000	99%	4.1	9.0
196	Project CR	Region O	On Hold	2500000	2500000	0	99%	4.0	8.9
197	Project CS	Region P	Completed	4150000	4130000	20000	99%	4.4	9.2
198	Project CT	Region Q	In Progress	4400000	4350000	50000	99%	4.2	9.1
199	Project CU	Region R	On Hold	2550000	2550000	0	99%	4.0	8.9
200	Project CV	Region S	Completed	4250000	4230000	20000	99%	4.3	9.2
201	Project CW	Region T	In Progress	4500000	4450000	50000	99%	4.1	9.0
202	Project CX	Region U	On Hold	2600000	2600000	0	99%	4.0	8.9
203	Project CY	Region V	Completed	4350000	4330000	20000	99%	4.4	9.2
204	Project CZ	Region W	In Progress	4600000	4550000	50000	99%	4.2	9.1
205	Project DA	Region X	On Hold	2650000	2650000	0	99%	4.0	8.9
206	Project DB	Region Y	Completed	4450000	4430000	20000	99%	4.3	9.2
207	Project DC	Region Z	In Progress	4700000	4650000	50000	99%	4.1	9.0
208	Project DD	Region A	On Hold	2700000	2700000	0	99%	4.0	8.9
209	Project DE	Region B	Completed	4550000	4530000	20000	99%	4.4	9.2
210	Project DF	Region C	In Progress	4800000	4750000	50000	99%	4.2	9.1
211	Project DG	Region D	On Hold	2750000	2750000	0	99%	4.0	8.9
212	Project DH	Region E	Completed	4650000	4630000	20000	99%	4.3	9.2
213	Project DI	Region F	In Progress	4900000	4850000	50000	99%	4.1	9.0
214	Project DJ	Region G	On Hold	2800000	2800000	0	99%	4.0	8.9
215	Project DK	Region H	Completed	4750000	4730000	20000	99%	4.4	9.2
216	Project DL	Region I	In Progress	5000000	4950000	50000	99%	4.2	9.1
217	Project DM	Region J	On Hold	2850000	2850000	0	99%	4.0	8.9
218	Project DN	Region K	Completed	4850000	4830000	20000	99%	4.3	9.2
219	Project DO	Region L	In Progress	5100000	5050000	50000	99%	4.1	9.0
220	Project DP	Region M	On Hold	2900000	2900000	0	99%	4.0	8.9
221	Project DQ	Region N	Completed	4950000	4930000	20000	99%	4.4	9.2
222	Project DR	Region O	In Progress	5200000	5150000	50000	99%	4.2	9.1
223	Project DS	Region P	On Hold	2950000	2950000	0	99%	4.0	8.9
224	Project DT	Region Q	Completed	5050000	5030000	20000	99%	4.3	9.2
225	Project DU	Region R	In Progress	5300000	5250000	50000	99%	4.1	9.0
226	Project DV	Region S	On Hold	3000000	3000000	0	99%	4.0	8.9
227	Project DW	Region T	Completed	5150000	5130000	20000	99%	4.4	9.2
228	Project DX	Region U	In Progress	5400000	5350000	50000	99%	4.2	9.1
229	Project DY	Region V	On Hold	3050000	3050000	0	99%	4.0	8.9
230	Project EZ	Region W	Completed	5250000	5230000	20000	99%	4.3	9.2
231	Project FA	Region X	In Progress	5500000	5450000	50000	99%	4.1	9.0
232	Project FB	Region Y	On Hold	3100000	3100000	0	99%	4.0	8.9
233	Project FC	Region Z	Completed	5350000	5330000	20000	99%	4.4	9.2
234	Project FD	Region A	In Progress	5600000	5550000	50000	99%	4.2	9.1
235	Project FE	Region B	On Hold	3150000	3150000	0	99%	4.0	8.9
236	Project FF	Region C	Completed	5450000	5430000	20000	99%	4.3	9.2
237	Project FG	Region D	In Progress	5700000	5650000	50000	99%	4.1	9.0
238	Project FH	Region E	On Hold	3200000	3200000	0	99%	4.0	8.9
239	Project FI	Region F	Completed	5550000	5530000	20000	99%	4.4	9.2
240	Project FJ	Region G	In Progress</						

Assumption for Bagasse based Cogeneration Project Parameters				State	Annexure 3D
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	8.50%
			Plant Load Factor	%	53.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00
			Capital Cost	Rs. Lakh	467
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	467.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	326.90
			Total Equity Amount	Rs. Lakh	140.10
			Loan Amount	Rs. Lakh	326.90
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	140.10
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	24.52	
		O&M expenses p.a	Rs. Lakh	24.52	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M exepenses	%	0.15
		Receivables	Days	1.5	
		Bagasse Stock	Months	4	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Bagasse Stock	Heat Rate	kcal/kWh	3600.00
			Fuel Price	Rs./T	2351.00
			GCV Bagasse	kcal/kg	2250.00
			Bagasse price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours	Hours	8766.00	

CERC RE Tariff Order FY 2020-21

[illegible]

Assumption for Bagasse based Cogeneration Project Parameters					Annexure 3E
					Tamil Nadu
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	8.50%
			Plant Load Factor	%	60.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00
			Capital Cost	Rs. Lakh	467
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	467.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	326.90
			Total Equity Amount	Rs. Lakh	140.10
			Loan Amount	Rs. Lakh	326.90
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	140.10
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.84%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	24.52
			O&M expenses p.a	Rs. Lakh	24.52
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	0.15
			Receivables	Days	1.5
			Bagasse Stock	Months	4
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Bagasse Stock	Heat Rate	kcal/MWh	3600.00
			Fuel Price	Rs./T	2023.00
			GCV Bagasse	kcal/kg	2259.00
			Bagasse price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Bagasse based Cogeneration Project Parameters					Annexure 3F
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Telangana Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	8.50%
			Plant Load Factor	%	53.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00
			Capital Cost	Rs. Lakh	467
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	467.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	326.90
			Total Equity Amount	Rs. Lakh	140.10
			Loan Amount	Rs. Lakh	326.90
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	140.10
			Return on Equity for First 20 years	% p.a	16.98%
			Return on Equity after 20 years	% p.a	21.52%
		Tax Rate	Discount Rate	%	8.61%
			Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
			Normative O&M expense	Rs. Lakh/MW	24.52
5	Working Capital	Bagasse Stock	O&M expenses p.a	Rs. Lakh	24.52
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	0.15
			Receivables	Days	1.5
			Bagasse Stock	Months	4
6	Fuel Related Assumptions	Interest on Working Capital	Interest on Working Capital	% per annum	11.17%
			Heat Rate	kcal/kWh	3600.00
			Fuel Price	Rs./T	1877.00
			GCV Bagasse	kcal/kg	2250.00
7	Generation and Sale of Power	Bagasse price escalation factor	Bagasse price escalation factor	%	5.00%
			Number of Hours	Hours	8766.00

Assumption for Bagasse based Cogeneration Project Parameters				State	Annexure 3G
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	8.50%
			Plant Load Factor	%	45.00%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00
			Capital Cost	Rs. Lakh	467
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	467.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	326.90
			Total Equity Amount	Rs. Lakh	140.10
			Loan Amount	Rs. Lakh	326.90
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	140.10
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	24.52
		O&M expenses p.a		Rs. Lakh	24.52
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	0.15
		Receivables		Days	1.5
		Bagasse Stock		Months	4
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Bagasse Stock	Heat Rate	kcal/kWh	3600.00
			Fuel Price	Rs./T	2095.00
			GCV Bagasse	kcal/kg	2250.00
			Bagasse price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

[illegible]

Assumption for Bagasse based Cogeneration Project Parameters				State	Annexure 3C Other States	
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	8.50%	
			Plant Load Factor	%	53.00%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	467.00	
			Capital Cost	Rs. Lakh	467	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	467.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	326.90	
			Total Equity Amount	Rs. Lakh	140.10	
			Loan Amount	Rs. Lakh	326.90	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15	
		Equity Component	Interest Rate	%	9.67%	
			Equity Amount	Rs. Lakh	140.10	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%			
	Depreciation Rate 16th years onwards	%	2.00%			
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	24.52	
			O&M expenses p.a	Rs. Lakh	24.52	
			Escalation factor	%	3.84%	
5	Working Capital		O&M expenses p.a	Month	1	
			Maintenance Spares	% of O&M exepenses	%	0.15
			Receivables	Days	1.5	
			Bagasse Stock	Months	4	
			Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Bagasse Stock	Heat Rate	kcal/kWh	3600.00	
			Fuel Price	Rs./T	2274.00	
			GCV Bagasse	kcal/kg	2250.00	
			Bagasse price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

CERC RE Tariff Order FY 2020-21

Registration Details										Financial Performance										Operational Metrics										Compliance & Status																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Registration No.	Registration Date	Registration Type	Registration Fee	Registration Period	Registration Validity	Registration Remarks	Registration Status	Registration Category	Registration Sub-category	Revenue	Profit	Expenses	Assets	Liabilities	Equity	Debt	Current Ratio	Debt to Equity Ratio	Return on Equity	Return on Assets	Operating Margin	Gross Margin	Net Margin	EBITDA Margin	EBITDA	EBIT	EBT	Income Tax	Corporate Tax	Dividend Payout	Dividend Yield	Dividend Per Share	Dividend Frequency	Dividend Date	Dividend Type	Dividend Status	Dividend Remarks	Dividend Notes	Dividend Comments	Dividend Description	Dividend Details	Dividend Information	Dividend Data	Dividend Facts	Dividend Figures	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data	Dividend Facts	Dividend Figures	Dividend Data

Assumption for Biomass Gasifier based Project Parameters					Annexure 4A
					State
					Andhra Pradesh
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	13.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	7.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses		Normative O&M expense	Rs. Lakh/MW	61.31
			O&M expenses p.a	Rs. Lakh	61.31
			Escalation factor	%	3.84%
5	Working Capital		O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M expenses	5.00%
			Receivables	Days	15
			Biomass Stock	Months	4
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Fuel Price	Rs./T	3326.00
			Specific Fuel Consumption	kg/kWh	1.25
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	2766.00

CERC RE Tariff Order FY 2020-21

[illegible]

Assumption for Biomass Gasifier based Project Parameters					Annexure 4B
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	6.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Normative O&M expense	O&M expenses p.a	Rs. Lakh	61.31
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
5	Working Capital	Maintenance Spares	% of O&M expenses	%	15.00%
			Receivables	Days	1.5
			Biomass Stock	Months	4
			Interest on Working Capital	% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Fuel Price	Rs./T	3786.00
			Specific Fuel Consumption	kg/kWh	1.25
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Gasifier based Project Parameters					State	Annexure 4C
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter	
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1	
			Aux Consumption	%	10%	
			Plant Load Factor	%	85%	
			Useful Life	Years	25	
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00	
			Capital Cost	Rs. Lakh	443	
			Capital Subsidy	Rs. Lakh	0	
			Net Capital Cost	Rs. Lakh	443.00	
3	Financial Assumption	Debt Equity	Tariff Period	Years	25	
			Debt	%	70%	
			Equity	%	30%	
		Debt Component	Total Debt Amount	Rs. Lakh	310.10	
			Total Equity Amount	Rs. Lakh	132.90	
			Loan Amount	Rs. Lakh	310.10	
			Moratorium Period	Years	0	
			Repayment Period (including Moratorium)	Years	15.00	
			Interest Rate	%	9.67%	
		Equity Component	Equity Amount	Rs. Lakh	132.90	
			Return on Equity for First 20 years	% p.a	16.96%	
			Return on Equity after 20 years	% p.a	21.52%	
			Discount Rate	%	8.61%	
		Tax Rate	Corporate Tax Rate	%	34.94%	
			MAT Rate	%	17.47%	
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%	
Depreciation Rate 16th years onwards	%		2.00%			
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	61.31		
		O&M expenses p.a	Rs. Lakh	61.31		
		Escalation factor	%	3.84%		
5	Working Capital	O&M expenses p.a	Month	1		
		Maintenance Spares	% of O&M exepenses	%	15.90%	
		Receivables	Days	1.5		
		Biomass Stock	Months	4		
		Interest on Working Capital	% per annum	11.17%		
6	Fuel Related Assumptions	Biomass	Fuel Price	Rs./T	3672.00	
			Specific Fuel Consumption	kg/kWh	1.25	
			Biomass price escalation factor	%	5.00%	
7	Generation and Sale of Power	Number of Hours		Hours	8766.00	

Assumption for Biomass Gasifier based Project Parameters				State	Annexure 4D
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Normative O&M expense	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
5	Working Capital	O&M expenses p.a	Normative O&M expense	Rs. Lakh/MW	61.31
			O&M expenses p.a	Rs. Lakh	61.31
			Escalation factor	%	3.84%
		Maintenance Spares	O&M expenses p.a	Month	1
			% of O&M exepenses	%	15.00%
			Receivables	Days	1.5
6	Fuel Related Assumptions	Biomass	Biomass Stock	Months	4
			Interest on Working Capital	% per annum	11.17%
7	Generation and Sale of Power	Number of Hours	Fuel Price	Rs./T	3960.00
			Specific Fuel Consumption	kg/kWh	1.25
			Biomass price escalation factor	%	5.00%

345

Page 212

Assumption for Biomass Gasifier based Project Parameters				State	Annexure 4E
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
			Normative O&M expense	Rs. Lakh/MW	61.31
			O&M expenses p.a	Rs. Lakh	61.31
5	Working Capital		Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
			Receivables	Days	1.5
			Biomass Stock	Months	4
6	Fuel Related Assumptions	Biomass	Interest on Working Capital	% per annum	11.17%
			Fuel Price	Rs./T	3305.00
			Specific Fuel Consumption	kg/kWh	1.25
7	Generation and Sale of Power	Number of Hours	Biomass price escalation factor	%	5.00%
				Hours	8766.00

CERC RE Tariff Order FY 2020-21

Assumption for Biomass Gasifier based Project Parameters				State	Annexure 4F
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Tamil Nadu Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	61.31
		O&M expenses p.a		Rs. Lakh	61.31
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15.00%
		Receivables		Days	1.5
		Biomass Stock		Months	4
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Fuel Price	Rs./T	3272.00
			Specific Fuel Consumption	kg/kWh	1.25
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

Assumption for Biomass Gasifier based Project Parameters				State	Annexure 4G
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
		Equity Component	Interest Rate	%	9.67%
			Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
Depreciation	Depreciation Rate for 1st 15 years	%	4.67%		
	Depreciation Rate 16th years onwards	%	2.00%		
4	O&M Expenses	Normative O&M expense	Rs. Lakh/MW	61.31	
		O&M expenses p.a	Rs. Lakh	61.31	
		Escalation factor	%	3.84%	
5	Working Capital	O&M expenses p.a	Month	1	
		Maintenance Spares	% of O&M expences	15.00%	
		Receivables	Days	1.5	
		Biomass Stock	Months	4	
		Interest on Working Capital	% per annum	11.17%	
6	Fuel Related Assumptions	Biomass	Fuel Price	Rs./T	3326.00
			Specific Fuel Consumption	kg/kWh	1.25
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

[illegible]

Assumption for Biomass Gasifier based Project Parameters				State	Annexure 4H
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	18.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
4	O&M Expenses	Normative O&M expense	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
5	Working Capital	O&M expenses p.a	Normative O&M expense	Rs. Lakh/MW	61.31
			O&M expenses p.a	Rs. Lakh	61.31
			Escalation factor	%	3.84%
			O&M expenses p.a	Month	1
			Maintenance Spares	% of O&M exepenses	15.00%
6	Fuel Related Assumptions	Biomass	Receivables	Days	1.5
			Biomass Stock	Months	4
			Interest on Working Capital	% per annum	11.17%
7	Generation and Sale of Power	Number of Hours	Fuel Price	Rs./T	3384.00
			Specific Fuel Consumption	kg/kWh	1.25
			Biomass price escalation factor	%	5.00%
				Hours	8766.00

Assumption for Biomass Gasifier based Project Parameters				State	Annexure 4I Other States
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	10%
			Plant Load Factor	%	85%
			Useful Life	Years	25
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	443.00
			Capital Cost	Rs. Lakh	443
			Capital Subsidy	Rs. Lakh	0
			Net Capital Cost	Rs. Lakh	443.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	310.10
			Total Equity Amount	Rs. Lakh	132.90
			Loan Amount	Rs. Lakh	310.10
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15.00
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	132.90
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	61.31
		O&M expenses p.a		Rs. Lakh	61.31
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		%	15.00%
		Receivables		Days	1.5
		Biomass Stock		Months	4
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biomass	Fuel Price	Rs./T	3557.00
			Specific Fuel Consumption	kg/kWh	1.25
			Biomass price escalation factor	%	5.00%
7	Generation and Sale of Power	Number of Hours		Hours	8766.00

CERC RE Tariff Order FY 2020-21

Project Name		Project Location		Project Type		Project Status		Project Budget		Project Timeline		Project Risk		Project Impact	
Project ID	Project Name	Project Location	Project Type	Project Status	Project Budget	Project Timeline	Project Risk	Project Impact	Project ID	Project Name	Project Location	Project Type	Project Status	Project Budget	Project Timeline
1	Project A	Location A	Type A	Status A	Budget A	Timeline A	Risk A	Impact A	1	Project A	Location A	Type A	Status A	Budget A	Timeline A
2	Project B	Location B	Type B	Status B	Budget B	Timeline B	Risk B	Impact B	2	Project B	Location B	Type B	Status B	Budget B	Timeline B
3	Project C	Location C	Type C	Status C	Budget C	Timeline C	Risk C	Impact C	3	Project C	Location C	Type C	Status C	Budget C	Timeline C
4	Project D	Location D	Type D	Status D	Budget D	Timeline D	Risk D	Impact D	4	Project D	Location D	Type D	Status D	Budget D	Timeline D
5	Project E	Location E	Type E	Status E	Budget E	Timeline E	Risk E	Impact E	5	Project E	Location E	Type E	Status E	Budget E	Timeline E
6	Project F	Location F	Type F	Status F	Budget F	Timeline F	Risk F	Impact F	6	Project F	Location F	Type F	Status F	Budget F	Timeline F
7	Project G	Location G	Type G	Status G	Budget G	Timeline G	Risk G	Impact G	7	Project G	Location G	Type G	Status G	Budget G	Timeline G
8	Project H	Location H	Type H	Status H	Budget H	Timeline H	Risk H	Impact H	8	Project H	Location H	Type H	Status H	Budget H	Timeline H
9	Project I	Location I	Type I	Status I	Budget I	Timeline I	Risk I	Impact I	9	Project I	Location I	Type I	Status I	Budget I	Timeline I
10	Project J	Location J	Type J	Status J	Budget J	Timeline J	Risk J	Impact J	10	Project J	Location J	Type J	Status J	Budget J	Timeline J
11	Project K	Location K	Type K	Status K	Budget K	Timeline K	Risk K	Impact K	11	Project K	Location K	Type K	Status K	Budget K	Timeline K
12	Project L	Location L	Type L	Status L	Budget L	Timeline L	Risk L	Impact L	12	Project L	Location L	Type L	Status L	Budget L	Timeline L
13	Project M	Location M	Type M	Status M	Budget M	Timeline M	Risk M	Impact M	13	Project M	Location M	Type M	Status M	Budget M	Timeline M
14	Project N	Location N	Type N	Status N	Budget N	Timeline N	Risk N	Impact N	14	Project N	Location N	Type N	Status N	Budget N	Timeline N
15	Project O	Location O	Type O	Status O	Budget O	Timeline O	Risk O	Impact O	15	Project O	Location O	Type O	Status O	Budget O	Timeline O
16	Project P	Location P	Type P	Status P	Budget P	Timeline P	Risk P	Impact P	16	Project P	Location P	Type P	Status P	Budget P	Timeline P
17	Project Q	Location Q	Type Q	Status Q	Budget Q	Timeline Q	Risk Q	Impact Q	17	Project Q	Location Q	Type Q	Status Q	Budget Q	Timeline Q
18	Project R	Location R	Type R	Status R	Budget R	Timeline R	Risk R	Impact R	18	Project R	Location R	Type R	Status R	Budget R	Timeline R
19	Project S	Location S	Type S	Status S	Budget S	Timeline S	Risk S	Impact S	19	Project S	Location S	Type S	Status S	Budget S	Timeline S
20	Project T	Location T	Type T	Status T	Budget T	Timeline T	Risk T	Impact T	20	Project T	Location T	Type T	Status T	Budget T	Timeline T
21	Project U	Location U	Type U	Status U	Budget U	Timeline U	Risk U	Impact U	21	Project U	Location U	Type U	Status U	Budget U	Timeline U
22	Project V	Location V	Type V	Status V	Budget V	Timeline V	Risk V	Impact V	22	Project V	Location V	Type V	Status V	Budget V	Timeline V
23	Project W	Location W	Type W	Status W	Budget W	Timeline W	Risk W	Impact W	23	Project W	Location W	Type W	Status W	Budget W	Timeline W
24	Project X	Location X	Type X	Status X	Budget X	Timeline X	Risk X	Impact X	24	Project X	Location X	Type X	Status X	Budget X	Timeline X
25	Project Y	Location Y	Type Y	Status Y	Budget Y	Timeline Y	Risk Y	Impact Y	25	Project Y	Location Y	Type Y	Status Y	Budget Y	Timeline Y
26	Project Z	Location Z	Type Z	Status Z	Budget Z	Timeline Z	Risk Z	Impact Z	26	Project Z	Location Z	Type Z	Status Z	Budget Z	Timeline Z
27	Project AA	Location AA	Type AA	Status AA	Budget AA	Timeline AA	Risk AA	Impact AA	27	Project AA	Location AA	Type AA	Status AA	Budget AA	Timeline AA
28	Project AB	Location AB	Type AB	Status AB	Budget AB	Timeline AB	Risk AB	Impact AB	28	Project AB	Location AB	Type AB	Status AB	Budget AB	Timeline AB
29	Project AC	Location AC	Type AC	Status AC	Budget AC	Timeline AC	Risk AC	Impact AC	29	Project AC	Location AC	Type AC	Status AC	Budget AC	Timeline AC
30	Project AD	Location AD	Type AD	Status AD	Budget AD	Timeline AD	Risk AD	Impact AD							

Assumption for Biogas based Project Parameters					Annexure 5A
S. No.	Assumption Head	Sub-Head	Sub-Head (2)	Unit	Parameter
1	Power Generation	Capacity	Installed Power Generation Capacity	MW	1
			Aux Consumption	%	12%
			Plant Load Factor	%	90%
			Useful Life	Years	25.00
2	Project Cost	Capital Cost	Normative Capital Cost	Rs. Lakh/MW	1,186.00
			Capital Cost	Rs. Lakh	1,186.00
			Capital Subsidy	Rs. Lakh	300.00
			Net Capital Cost	Rs. Lakh	886.00
3	Financial Assumption	Debt Equity	Tariff Period	Years	25.00
			Debt	%	70%
			Equity	%	30%
		Debt Component	Total Debt Amount	Rs. Lakh	620.20
			Total Equity Amount	Rs. Lakh	265.80
			Loan Amount	Rs. Lakh	620.20
			Moratorium Period	Years	0
			Repayment Period (including Moratorium)	Years	15
			Interest Rate	%	9.67%
		Equity Component	Equity Amount	Rs. Lakh	265.80
			Return on Equity for First 20 years	% p.a	16.96%
			Return on Equity after 20 years	% p.a	21.52%
			Discount Rate	%	8.61%
		Tax Rate	Corporate Tax Rate	%	34.94%
			MAT Rate	%	17.47%
		Depreciation	Depreciation Rate for 1st 15 years	%	4.67%
			Depreciation Rate 16th years onwards	%	2.00%
4	O&M Expenses	Normative O&M expense		Rs. Lakh/MW	61.31
		O&M expenses p.a		Rs. Lakh	61.31
		Escalation factor		%	3.84%
5	Working Capital	O&M expenses p.a		Month	1
		Maintenance Spares		% of O&M exepenses	15%
		Receivables		Days	45
		Interest on Working Capital		% per annum	11.17%
6	Fuel Related Assumptions	Biogas	Fuel Price	Rs./T	1422.00
			Specific Fuel Consumption	kg/kWh	3.00
			Substrates price escalation factor	%	5%
7	Generation and Sale of Power	Number of Hours		Hours	8,766.00

Annexure - G

358

Fax: 03592 202927



Phones: 202706
PBX: 222908
222916

GOVERNMENT OF SIKKIM POWER DEPARTMENT

Dated 15/09/2021

No. 09/CE/IPP/2021/16

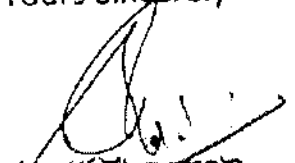
To,
The Director (Tariff & Technical)
Sikkim State Electricity Regulatory Commission
Deorali
Gangtok.

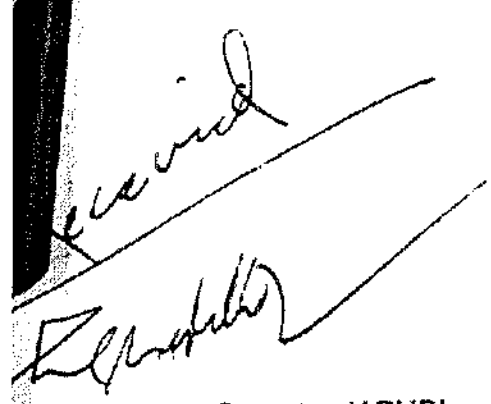
Sub: Approval of tariff for the projects handed over to HGHPL.

Sir,
Reference to your office letter dated 08. 09. 2021 regarding file a fresh petition for the approval of tariff of projects handed over to M/s Hanuman Ganga Hydroprojects Pvt. Ltd., the department hereby authorise M/s Hanuman Ganga Hydroprojects Pvt. Ltd., to appear, represent, file petition and submit the supporting documents related to the matters pertaining to the PPA with HGHPL, duly following the procedure.

Thanking You,

Yours Sincerely


(D.K. Sharma)
Chief Engineer (HO)
Power Department
Govt. of Sikkim
Gangtok


DIRECTOR (T&T) HGHPL – for information and follow up with SSERC.
SIKKIM STATE ELECTRICITY
REGULATORY COMMISSION
Gangtok, Sikkim

**BEFORE THE HON'BLE SIKKIM STATE ELECTRICITY REGULATORY
COMMISSION, GANGTOK, SIKKIM**

File No: _____
Case No: _____

IN THE MATTER OF: Petition for Approval of Power Purchase Agreement under Section 86 (1) (b) read with Sections 61, 62 and 64 of the Electricity Act, 2003

AND

IN THE MATTER OF:

Hanuman Ganga Hydroprojects Private Limited

... Petitioner

V/s

The Power Department, Government of Sikkim

... Respondent

VAKALATNAMA

I, Shri Vishnu Kumar Bhargava, Project Head (Commercial), authorized representative of the **Petitioner, M/s Hanuman Ganga Hydroprojects Private Limited**, in the above petition do hereby appoint and retain advocates of **Shardul Amarchand Mangaldas & Co** including **SHASHWAT KUMAR, RAHUL CHOUHAN, and NAMAN MITTAL**, Advocate(s), to appear, plead and act for me/us in the above petition and to conduct and prosecute all proceedings that may be taken in respect thereof and applications for return of documents, enter into compromise and to draw any moneys payable to me/us in the said proceeding and also appear in the said petition.

Shardul
SHASHWAT KUMAR
(D-1698-2806)

Rahul Chouhan
(RAHUL CHOUHAN)
R/1120/2013
Naman Mittal

**PETITIONER THROUGH
AUTHORISED REPRESENTATIVE**

NAMAN MITTAL
D/ 7429/2018

ACCEPTED

Place: Gangtok, Sikkim

Dated: _____

Executed in my presence.

(Address for service on the Counsel of Petitioner)

Shardul Amarchand Mangaldas & Co.

Amarchand Towers, 216

Okhla Industrial Estate Phase III

New Delhi - 110020

Kind Attn: Mr. Shashwat Kumar

Email: shashwat.kumar@AMSShardul.com

Phone No.: +91 7428238330





HANUMAN GANGA HYDROPROJECTS PRIVATE LIMITED

360

CERTIFIED TRUE COPY OF RESOLUTION PASSED IN THE MEETING OF BOARD OF DIRECTORS OF M/S. HANUMAN GANGA HYDROPROJECTS PRIVATE LIMITED HELD ON 25.09.2021 AT FLAT NO.1103, 11TH FLOOR, SURYA KIRAN BUILDING, 19 KG MARG, NEW DELHI-110001. AT 11.00 AM

"RESOLVED THAT the authority of the Board be and is hereby accorded to Mr. Vishnu Kumar Bhargava, Authorised Representative of the company to initiate/file petition/defend/pursue any legal action or proceeding(s) against any person(s)/party (ies) in connection with the approvals of tariffs for hydro projects taken from the Power Department of Sikkim on a ROMT basis, including but not limited to filing of Appeal."

"FURTHER RESOLVED THAT Vishnu Kumar Bhargava, authorized representative of the company be and is hereby authorized to file, prosecute such appropriate appeal, petition against the any order for and on behalf of the Company, to appoint Advocate(s)/ Counsel(s) Solicitor(s)/ to appoint further attorneys, to make statement on oath, to give evidence, to tender, file or withdraw documents, sign complaint, applications reply, or any documents, or to settle, withdraw, /compromise any legal proceedings, to prosecute or conduct the matter(s) and generally to do all acts and deeds which are incidental to and ancillary to the institution, conduct and prosecution of the proceedings and that his actions shall be binding upon the company."

Signature of Mr. Vishnu Kumar Bhargava.....

**For and on behalf of
M/s. Hanuman Ganga Hydroprojects Private Limited**

**Pardeep Garg
Director**

UEN: 90548541

Bank Statement

361

Page No. : 1



M/S. HANUMAN GANGA HYDROPROJECTS PRIVATE LTD
MASKEY FUELS MP GOLAI EAST

GANGTOK 737102
SIKKIM INDIA

JOINT HOLDERS :

Account Branch : JANPATH
Address : HDFC BANK LTD
72,
VED MANSION
City : NEW DELHI 110001
State : DELHI
Phone no. : 011-61606161
OD Limit : 0.00
Currency : INR
Email : COMMERCIAL@HANUMANGANGA.COM
Cust ID : 140576862
Account No : 50200050042320 CAGEN
A/C Open Date : 09/07/2020
Account Status : Regular
RTGS/NEFT IFSC : HDFC0001660 MICR : 110240213
Branch Code : 1660 Product Code : 1313

Nomination : Not Registered

From : 22/09/2021

To : 22/09/2021

Statement of account

Date	Narration	Chq./Ref.No.	Value Dt	Withdrawal Amt.	Deposit Amt.	Closing Balance
22/09/21	CHEQUE PAID SHANKER SEN - CHQ PAID - JAN PATH	000000000000425	22/09/21	20,000.00		1,580,026.72
22/09/21	FT - DR - 51200034147274 - PIONEER SYSTEMS CORPORATION	000000000000433	22/09/21	3,711.00		1,576,315.72
22/09/21	RTGS CR-PUNB0302800-GOGIA LEASING LTD-HANUMAN GANGA HYDROPROJECTS PVT LTD-PUNBR520210922314855909	PUNBR520210922314855909	22/09/21		2,000,000.00	3,576,315.72
22/09/21	NEFT DR-CBIN0282266-DEVIKA CHETTRI -JANPATH-N265211645493547	000000000000436	22/09/21	3,800.00		3,572,515.72
22/09/21	NEFT DR-LCBA0000093-EXCEL MARKETING -JANPATH-N265211645477285	000000000000430	22/09/21	107,520.00		3,464,995.72
22/09/21	NEFT DR-UBIN0554804-SILIGURI TRADE LINK PVT LTD -JANPATH-N265211645433119	000000000000435	22/09/21	480,000.00		2,984,995.72
22/09/21	BULK NEFT CR JANPATH 11 177002 DR - 0197092000001 - NEFTOUTWARD NORTH TRANSITOR Y ACCOUNT	000000000000424	22/09/21	177,002.00		2,807,993.72
22/09/21	NEFT DR-SBIN0032499-PLY GHAR-K G MARG-N26521164554232	000000000000432	22/09/21	44,640.00		2,763,353.72
22/09/21	NEFT DR-SBIN0007557-PHURBA SHERPA-K G MARG-N265211645523659	000000000000437	22/09/21	20,000.00		2,743,353.72
22/09/21	NEFT DR-UTIB0003552-HOMEFURNICA PVT LTD-JANPATH-N265211645448428	000000000000429	22/09/21	102,100.00		2,641,253.72
22/09/21	NEFT DR-SBIN0012421-MAYARATH FUEL CENTRE -K G MARG-N265211645499691	000000000000438	22/09/21	39,594.00		2,601,659.72
22/09/21	NEFT DR-PUNB0015300-GREENBOX DESIGNS -JANPATH-N265211645783172	000000000000445	22/09/21	108,000.00		2,493,659.72
22/09/21	NEFT DR-SBIN0001504-A.K. TRADING CO.-K G MARG-N265211645511780	000000000000434	22/09/21	69,100.00		2,424,559.72
22/09/21	NEFT DR-UTIB0000112-SIKKIM STATE ELECTRICITY REGULATORY COMMISSION-JANPATH-N2652	000000000000444	22/09/21	420,000.00		2,004,559.72

HDFC BANK LIMITED

*Closing balance includes funds earmarked for hold and uncleared funds

Contents of this statement will be considered correct if no error is reported within 30 days of receipt of statement. The address on this statement is that on record with the Bank as at the day of requesting this statement.

State account branch GSTIN:07AAACH2702H122

HDFC Bank GSTIN number details are available at <https://www.hdfcbank.com/personal/making-payments/online-tax-payment/goods-and-service-tax>.

Registered Office Address: HDFC Bank House, Senapati Bapat Marg, Lower Parel, Mumbai 400013



M/S. HANUMAN GANGA HYDROPROJECTS PRIVATE LTD
MASKEY FUELS MP GOLAI EAST

GANGTOK 737102
SIKKIM INDIA

JOINT HOLDERS :

Nomination : Not Registered

Account Branch : JANPATH
Address : HDFC BANK LTD
72,
VED MANSION
City : NEW DELHI 110001
State : DELHI
Phone no. : 011-61606161
OD Limit : 0.00
Currency : INR
Email : COMMERCIAL@HANUMANGANGA.COM
Cust ID : 140576862
Account No : 50200050042320 CAGEN
A/C Open Date : 09/07/2020
Account Status : Regular
RTGS/NEFT IFSC : HDFC0001660 MICR : 110240213
Branch Code : 1660 Product Code : 1313

From : 22/09/2021 To : 22/09/2021

Statement of account

11645773136					
-------------	--	--	--	--	--

STATEMENT SUMMARY :-

Opening Balance
1,600,026.72

Dr Count
13

Cr Count
1

Debits
1,595,467.00

Credits
2,000,000.00

Closing Bal
2,004,559.72

Generated On: 25-Sep-2021 13:57

Generated By:
140576863

Requesting Branch Code: NET

This is a computer generated statement and does
not require signature.

HDFC BANK LIMITED

*Closing balance includes funds earmarked for hold and uncleared funds

Contents of this statement will be considered correct if no error is reported within 30 days of receipt of statement. The address on this statement is that on record with the Bank as at the day of requesting this statement.

State account branch GSTIN:07AAAC112702H122

HDFC Bank GSTIN number details are available at <https://www.hdfcbank.com/personal/making-payments/online-tax-payment/goods-and-service-tax>.

Registered Office Address: HDFC Bank House, Senapati Bapat Marg, Lower Park, Mumbai 400013