

NON-FOSSIL BASED COGENERATION

Description	CERC	Assam	Bihar	Chhattisgarh	Gujarat*	Haryana	J & K	Karnataka*	Kerala	Maharashtra	Manipur	Mizoram	Nagaland	Punjab*	Tamil Nadu*	Tripura	Uttarakhand	Uttar Pradesh
Regulation	2017	2017	2017	(draft)2017	Order No.-1 of 2018	2010	2013	2018	2008	2015	2010	2010	2011	2017	Order No.-4 of 2018	2015	2013	2014
Dated	17.04.2017	04.09.2018	24.10.2017	4.7.2017		3.2.2011	17.05.2013	14.05.2018	19.11.2008	10.11.2015	31.05.2010	31.05.2010	30.08.2011	31.10.2017	28.03.2018	16.10.2015	15.04.2013	20.10.2015
Last Amendment	na	na	na	na	na	05.10.2016	20.04.2016	na	na	04.01.2017	08.08.2010	08.08.2014	na	na	na	28.09.2016	08.09.2017	
Tariff Period (Yrs)	20	20	20	13(COD after April 2012) 5(COD before April 2012)		20	13		12	13	13	13	13	20		13	20	
Control Period(yrs)	3	3	3	3			5			5	5	5	3	3		3	5	
(i) 1st Control Period						3(from 2011-12)												
(ii) 2nd Control Period						4(from 2013-14)												
w.e.f.	2017-19	2017-18	2017-18	2017-18	2018		2013-14	2018		2015	2012-13	2012-13	2011	2017-19	2018	2015	2013-14	
Finanacial Parametres																		
Capital Cost (Rs. Lakh/MW)	492.5	492.5	492.5	492.5	466	445	420	470	350	489.02	420	420	398	492.5	492.5	452.479	420	
Debt Equity Ratio	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30	70:30
Loan Tenure(Yrs)	13	13	10	13	10	10	12		10	12	12	12	10	13	10	12	12	
Interest rate on loan capital (SBI basis points)	200	200	200	200	11.40%	det. by Comm.	300	10.50%	9.00%	300	300	300	150	200	100	300	300	
Depreciation									7.5% p.a.									
(i)For starting years	5.28%(13yrs)	5.28%(13yrs)	7%(10yrs)	5.28%(13yrs)	7% (10 yrs)	7% (10 yrs)	5.83% (12 Yrs)	5.83% (13 Yrs)		5.83% (12 Yrs)	5.83% (12 Yrs)	5.83% (12 Yrs)	7% (10 Yrs)	5.28%(13yrs)	4.5% p.a. SLM (for 85% of C.C.)	5.83% (12 Yrs)	5.83% (12 Yrs)	
(ii)For remaining years					2% (11-20yrs)													
Salvage Value(%)	10%	10%	10%	10%			10%			10%	10%	10%	10%	10%		10%	10%	
Max Depreciation(% of capital cost)	90%	90%	90%	90%		90%	90%			90%	90%	90%	90%	90%		90%	90%	
Return on Equity																		
Value base of Cap. Cost	30%	30%	30%	30%		30%	30%			30%	30%	30%		30%		30%	30%	
% normative ROE	14%	14%	14%	14%	14%	16%		14%	14%	16%				14%	17.56%(pre-tax)			
for 10 yrs							18%				20%	20%	19%			20%	20%	
after 10 yrs							22%				24%	24%	24%			24%	24%	
O&M Expenses (Rs Lakh/MW)	21.13	21.13	21.13	21.13	3 % of project life	13.35	16	3% of C.C.	1.5% of C.C.	3.54% of C.C.	16	16	14.11	21.13	22.33	18.91	16.92	
Escalation (%) p.a	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%			5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	5.72%	
Interest rate on working capital (SBI basis points)	300	300	300	300	11.40%	300	350	11.50%		350	350	350	100	300	150	300	350	
Normative Parameters																		
PLF/CUF(%)		53%	based on 210 operating days and load factor of 92%	38% (operating days 150)	60%		53%	60%	53%	60%	53%	53%	53%	53%	55%	53%	45%	
state	45%(AP,UP); 60%(TN,Maha.)					53%												
other state	53%					85%								53%				
Aux. Consumption (%)	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%		8.50%	8.50%	8.50%	8.50%	8.50%	det. by Comm.	8.50%	8.50%	
Station Heat Rate(kCal/kWh)	3600	3600	3600	3600	3600	3600	3600			3600	3600	3600	3600	3600	det. by Comm.	3600	3600	
Specific Fuel Consumption(kg/kWh)								1.6							det. by Comm.			
Calorific Value(kCal/kg)	2250	2250	2250	2250	2250	2250	2250			2250	2250	2250	2250	2250		2250	2250	
Fuel Cost(Rs./MT)	2873.22(A.P), 3270.30(haryana), 3344.85(Maharashtra), 3420.56(Punjab), 2854.60(Rajasthan), 2826.05(Tamil Nadu), 2922.86(UP), 3073.05(Other States)	1964.71	1964.71	1964.71	2075	600	1600	1039		2326.84	1583	1583	1221	3420.56	1834.35	2010.581		
Useful Life (Yrs)		20	20	20	20	20	20	20		20	20	20	20	20	20	20	20	
Rebate																		
Through LoC (%)	2%	2%	2%	2%		2%	2%			2%	2%	2%	2%	2%			2%	
other than LoC within one month (%)	1%	1%	1%	1%		1%	1%			1%	1%	1%	1%	1%			1%	
Late Payment Surcharge(%) Beyond 60 days	1.25%	1.25% (beyond 30 days)	1.25%	1.25%		1.25%	1.25%			1.25%	1.25%	1.25%	1.25%	1.25%			1.25%	

Bagasse Existing Projects (Commissioned during FY 2009-10 to FY 2013-14)
Total Tariff for FY 2018-19 Year of Commissioning FY 2009-10: 5.49, FY 2010-11: 5.60, FY 2011-12 5.73, FY 2012-13: 5.86, FY 2013-14: 5.99.
Bagasse New Projects (Year of Commissioning FY 2014-15 to 2018-19)
Total Tariff for FY 2018-19 Year of Commissioning FY 2014-15: 6.07, FY 2015-16: 6.21, FY 2016-17: 6.35, FY 2017-18: 6.49, FY 2018-19: 6.64