

## NON-FOSSIL BASED COGENERATION

Description	CERC	Assam	Bihar	Chhattisgarh	Gujarat*	Haryana	J & K	Karnataka*	Kerala	Maharashtra*	Manipur	Mizoram	Nagaland	Punjab*	Tamil Nadu*	Telangana*	Tripura	Uttarakhand	Uttar Pradesh
Regulation	2017	2017	2017	(draft)2017	Order No.-1 of 2018	2017	2013	2018	2008	Generic Triff Order	2010	2010	2011	2017	Order No.-4 of 2018	2018	2015	2018	2014
Dated	17.04.2017	04.09.2018	24.10.2017	4.7.2017		24.07.2018	17.05.2013	14.05.2018	19.11.2008	30.04.2019	31.05.2010	31.05.2010	30.08.2011	31.10.2017	28.03.2018	20.10.2018	16.10.2015	06.09.2018	20.10.2015
Last Amendment	na	na	13.07.2018	na	na	27.08.2018	20.04.2016	na	na		08.08.2010	08.08.2014	na	na	na		28.09.2016		
Tariff Period (Yrs)	20	20	20	13(COD after April 2012) 5(COD before April 2012)		20	13		12		13	13	13	20			13	20	
Control Period(yrs)	3	3	3	3		4	5				5	5	3	3		2	3	5	
w.e.f.	2017-19	2017-18	2017-18	2017-18	2019-20	2017-18	2013-14	2018			2012-13	2012-13	2011	2017-19	2018	2018-9	2015	2018-19	
Finanacial Parametres																			
Capital Cost (Rs. Lakh/MW)	492.5	492.5	492.5	492.5	466	492.5	420	470	350		420	420	398	492.5	492.5	435	452.479	492.5	
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	13	12		10		12	12	10	13	10	13	12	13	
Interest rate on loan capital (SBI basis points)	200	200	200	200	11.40%	200	300	10.50%	9.00%		300	300	150	200	100	10.25% p.a.	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)	5.38%(13 yrs)	5.83% (12 Yrs)	5.83% (13 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.)	5.28% (13 Yrs)	5.83% (12 Yrs)	5.38% (13 Yrs)	
(ii)For remaining years					2% (11-20yrs)											3.05%			
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%	
Return on Equity																			
Value base of Cap. Cost	30%	30%	30%	30%		30%	30%				30%	30%		30%			30%		
% normative ROE for 10 yrs	14%	14%	14%	14%	14%	14%	18%	14%	14%		20%	20%	19%	14%	17.56%(pre-tax)	17.60%		16%	
after 10 yrs							22%				24%	24%	24%				24%	22%	
O&M Expenses (Rs Lakh/MW)	21.13	21.13	21.13	21.13	3 % of project life	21	16	3% of C.C.	1.5% of C.C.		16	16	14.11	21.13	22.33	22.18	18.91	22.35	
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%	5.72%	
Interest rate on working capital (SBI basis points)	300	300	300	300	11.40%	200	350	11.50%			350	350	100	300	150	11.25% p.a.	300	350	
Normative Parameters																			
PLF/CUF(%)		53%	based on 210 operating days and load factor of 92%	38% (operating days 150)	60%	53% for 210 operating days	53%	60%	53%		53%	53%	53%	53%	55%	55%	53%	45%	
state	45%(AP,UP); 60%(TN,Maha.)																		
other state	53%													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%	det. by Comm.	9.00%	8.50%	8.50%	
Station Heat Rate(kCal/kWh)	3600	3600	3600	3600	3600	3600	3600				3600	3600	3600	3600	det. by Comm.	3600	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	2307	1600	1039			1583	1583	1221	3420.56	1834.35	1743	2010.581	1954	
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%	
other than LoC within one month (%)	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%	

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

The Commission has follows the Competitive Bidding Route, Tariff Rates for MSEDCL for FY 2019-20 is 4.99 kWh

Remark: "" Notified Tariff Order