BIHAR ELECTRICITY REGULATORY COMMISSION

(Terms and Conditions for Tariff Determination from Renewable Energy Resources) Regulations, 2017, Dated: 24.10.2017

SI. No.	Description	Summary						
1.	Review Period/Control Period	3 Years (FY 2017-18 being the first year)						
2.	Tariff Period	RE Projects						
		Wind energy power project	25					
		Bio mass power project with Rankine cycle technology	20					
		Non-fossil fuel cogeneration project						
		Small Hydro Plant						
		Municipal Solid Waste (MSW)/ and Refuse Derived Fuel (RDF) based power project 20						
		Solar PV/Solar thermal power project	25					
		Biomass Gasifier based power project	20					
		Biogas based power project	20					
		following fixed cost components: (a) Return on equity; (b) Interest on loan capital; (c) Depreciation; (d) Interest on working capital; (e) Operation and maintenance expenses; For RE Projects based on technologies having a fuel cost component, like Biomass-based Power Projects and non-fossil fuel-based Co-Generation Projects, a single-part tariff with two components, viz., fixed cost component and fuel cost component, shall be determined.						
4.	Despatch principles	All RE Power Projects, except for Biomass-based Power Projects with installed capacity of 10MW and above and non fossil fuel based cogeneration plants shall be • treated as 'Must Run' Projects and shall not be subjected to 'merit order despatch' principles. • subjected to scheduling and despatch code						
5.	Debt Equity Ratio	 70:30 For project-specific tariff determination, if the equity actually deployed is more than 30% of the Capital Cost, the equity in excess of 30% shall be treated as normative loan. 						
6.	Loan Charges	Loan Tenure-10Years						
7.	Interest Rate	200 basis points above the average State Bank of India MCLR (1-year tenor) prevalent during the last available six months						
8.	Depreciation	7.0% per annum for first 10 years and remaining depreciation to be spread during remaining useful life of the RE projects considering the salvage value of the project as 10% of project cost shall be considered.						
9.	Return on Equity	Value base for equity shall be 30% of the capital cost or actual equity and normative return on equity shall be 14% to be grossed up by prevailing MAT as on 1 st April of previous year						
10.	Interest on Working Capital	300 basis points above the average State Bank of India MCLR (1-year tenor) prevalent during the last available six months.						

11.	Rebate	2% when payment is through letter of credit and 1% otherwise				
12.	Late Payment Surcharge	A late payment surcharge at the rate of 1.25% per month if payment is delayed by 60 days				
13.	CDM Benefits	 a) 100% of the gross proceeds on account of CDM benefit to be retained by the project developer in the first year after the date of commercial operation of the generating station; b) In the second year, the share of the beneficiaries shall be 10% which shall be progressively increased by 10% every year till it reaches 50%, where after the proceeds shall be shared in equal proportion, by the generating company and the beneficiaries. 				
14.	Subsidy	The Commission shall take into consideration any grant, subsidy or incentive offered by the Central or State Government or their agencies, including accelerated/additional depreciation benefit, if availed, while determining the tariff under these Regulations.				
15.	Taxes and Duties	Taxes and Duties levied by the government shall be allowed as pass through on actual incurred basis and tariff determined shall be exclusive of taxes and duties				
16.	Transmission and Wheeling Charges	To be determined by Commission				
17.	Cross-Subsidy Charge	Exempted				
18.	Banking	2% of the energy fed into the grid for banking by the generator will be paid as banking charge to BSPHCL/distribution lincensee.				

S. No.	Renewable Energy Source	Biomass	Based Power F	Projects	Non-fossil fuel based Cogeneration Projects	Solar PV Power Project and Rooftop Solar PV Projects	Solar Thermal Power Project	Biomass Gasifier Power Projects	Municipal Solid Waste/refuse derived fuel and based on Rankine Cycle			
1.	Auxiliary consumption		Water cooled condenser	Air cooled condenser	8.5%	0.25%	10%	10%	15%			
		During 1 st year of operation	11%	13%								
		from 2 nd year onwards	10%	12%	-							
2.	Calorific Value (kcal/kg)	3174			2250	-	-	-	2	2500		
3.	Capital Cost (lakh/MW)	Projects [other than rice straw and juliflora (plantation) based projects] with water cooled condenser.		559.03	492.5	442.18	1200	592.88 (with subsidy of Rs 150.00 lakhs/MW, so	MSW 15		500	
		Projects [other and juliflora (pla projects with conde	antation)] based h air cooled	600.44				net project cost shall be Rs. 442.88				
		for rice straw (plantation)] bas water cooled	ed projects with	610.80				Lakh/MW	RDF	9	900	
		for rice straw (plantation)] bas air cooled o	ed projects with	652.20								
4.	Plant Load factor/CUF	During Stabiliza	ation	60%	Based on 210 operating days and load factor of 92%	19%	23%	85%		MSW	RDF	
		After stabilization year	till 1 st	70%					till 1 st year	65%	65%	
		from 2 nd year on	wards	80%					from 2 nd year onwards	75%	75% 80%	
5.	Station Heat Rate	Using travelling grate boilers		4200	3600	-	-		4200			
	(kCal/kWh)	Using AFBC bo	oilers 412	25kCal/kWh	1							

6.	O&M	For 1 st year of control	40	21.13	7.4	19.81	52.83	6% of Capital cost
	Expenses**	period						
	(lakh/MW)							
	(for FY 2017-18)							
7.	Fuel Cost* (for FY 2017-18)	3073.05/MT		1964.71/MT	-	-	3073.05/MT	1,800/MT Note: No fuel cost for MSW
	(10111201110)							11010: 110 1001 0001 101 111011

^{*}Normative escalation factor of 5% per annum for each subsequent year over tariff period.

** Normative escalation factor of 5.72% per annum for each subsequent year over tariff period.