MAHARASHTRA ELECTRICITY REGULATORY COMMISSION

(Terms and Conditions for Determination of Renewable Energy Tariff) Regulations, 2015, Dated: 10.11.2015 with amendment Dated: 04.01.2017

SI. No	Description	Summary					
1.	Review Period/Control Period	5 Year (up to the end of FY 2019-20)					
2.	Tariff Period	SI. No.	RE Technology	Tariff Period (in Years)			
		1.	Wind Power, Biomass-based, Solar PV, Solar Roof- top PV and Non-Fossil Fuel-based Co-Generation Projects 1				
		2.	Small Hydro Power Pro MW and upto and inclu	13			
		3.	Small Hydro Power Projects of 5 MW capacity or S less and for Mini/ Micro Hydro Power projects S				
		4.	Solar Thermal Projects 25				
3.	Tariff Structure	The tariff for Projects based on RE technologies shall be a single-part tariff consisting of the following fixed cost components: (a) Return on equity; (b) Interest on Ioan 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. According to Indian Electricity Grid Code and the State Electricity Grid Code, all RE Power Projects, except for Biomass-based Power Projects and Co-Generation Project, shall be treated as 'Must Run' Projects and shall not be subjected to 'merit order deapatet' principles					
5.	Capital Cost	SI. No	Renewable Energy	Project Size	Capital Cost		
		1.	Wind Energy	-	600.74		
		2.	Small Hvdro Project	>1 MW and upto 5 MW	605.28		
			, , , , , ,	>5 MW and upto 25 MW	550.70		
		3.	Biomass based Projects		494.32		
		4.	Non-fossil fuel based Cogeneration Projects	489.02			
		5.	Solar PV Power 605.85 Project				
		6.	Solar Thermal Power1200Project				

6.	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.						
7.	Tariff Design	 The tariff shall be determined on a levelised basis for the Tariff Period. Levelisation shall be carried out for the 'useful life' of the RE Project, while tariff shall be determined for the period equivalent to the Tariff Period. 						
8.	Loan Charges	Loan Tenure-12Years For the purpose of computation of tariff, the Base Rate of the State Bank of India prevailing during the previous year plus 300 basis points shall be considered as the normative interest rate.						
9.	Depreciation	The depreciation rate for the first 12 years of the Tariff Period shall be 5.83% per annum, and the remaining depreciation shall be spread over the remaining useful life of the project from the 13th year onwards.						
10.	Return on Equity	The Return on Equity shall be computed at the base rate of 16%, to be grossed up as per the applicable tax rate.						
11.	Interest on Working Capital	Interest on Working Capital shall be the average of the Base Rate of State Bank of India prevalent during the previous year, plus 350 basis points.						
12.	Sharing of Clean Development Mechanism (CDM) Benefits	All risks, costs and efforts associated with the availing of carbon credits shall be borne by the Project Entity. The entire proceeds of carbon credit from approved CDM Project, if any, shall be retained by it.						
13.	Operation and Maintenance	SI. No	Renewable Energy Source	Project Size	O&M Expense (Rs. Lakh / MW)			
	Expenses	1.	Wind Energy		1.47 % of the Capital Cost			
		2.	Small Hydro Project	>1 MW and upto 5 MW	3.60% of the Capital Cost.			
				>5 MW and upto including 25 MW	2.80% of the Capital Cost.			
		3.	Biomass Power Projects		5.32%of the Capital Cost			
		4.	Non-fossil fuel based Cogeneration Projects		3.54%of the Capital Cost			
		5.	Solar PV Power Project		13			
		6.	Solar Thermal Power Project		15			
14.	Rebate	1. For payment of bills of the Project Entity through Letter of Credit, a rebate of 2% shall be allowed						
		 Where payments are made other than through Letter of Credit within one month of presentation of bills by the Project Entity, a rebate of 1% shall be allowed. 						
15.	Late Payment	In case th	e payment of any bill for	charges payable un	nder these Regulations is			
	Surcharge	delayed b surcharge	eyond a period of sixty d at the rate of 1.25% per mo	ays from the date on the shall be levied by	of billing, a late payment y the Project Entity.			
16.	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.						
17.	Taxes and Duties	The taxes and duties levied by the appropriate Government on generation, and sale of electricity from such RE Project, such as Electricity Duty and Water Royalty, shall be allowed as a pass-through to the extent actually incurred.						

18.	Capacity utilization factor/Plant Load	SI. No.	Region		Renewable Energy Source	Project Size	CUF/PLF			
	Factor	1.	Zone 1		Wind Power (Density	<=250	22%			
			Zone 2		(W/m2)	>250 - <=300	25%			
			Zone 3 Zone 4			>300 - <=400	30%			
						400	32%			
		2.			Small Hydro Project		30%			
		3.	During stabilisation:		Biomass base d		60%			
			During the remainin period of the first yea	g ar	Power Projects		70%;			
			(after stabilisation		-					
			From 2nd year onwards				80%.			
		4.			Non-fossil fuel based Cogeneration Projects		60%			
		5.			Solar PV Power Project		19%			
		6.			Solar Thermal Power Project		23%			
		1								
19.	Auxiliary Consumption	SI. No		F	Renewable Energy Source	Auxiliary Consumption				
		1		S	Small Hydro Project	o Project 1.0%				
			2	Bio	omass Based Power Projects	10%				
		3.		N Co	lon-fossil fuel based	8.5%				
		4.			olar Thermal Power Project	l Power 10% t				
20.	Station Heat Rate	on Heat Rate RE Technology				Quantity				
		Biomass-based Power Projects			ojects	4200 kcal/kWh				
	Non-fossil fuel-based Co-C Projects			o-Ger	neration	3600 kcal/kWh				
21.	Calorific Value	alorific Value RE Technology		gy	Quantity					
		Biomass-based Power Projects			ojects	3611 kcal/kg.				
			lon-fossil fuel-based Co-Generation Projects		neration	2250 kcal/kg				
22.	Fuel Cost	RE Technology				Quantity				
		Biomass-based Power Projects			ojects	Rs. 3987/MT				
		Non-fossil fuel-based Co-Generation Projects			neration	2326.84 /MT				