<u>Comments - Staff Paper on "Methodology for Computing the Escalation Factors and other Parameters for the Purpose of Bid</u> <u>Evaluation and Payment for Procurement of Power from Renewable Energy Projects Complemented with Firm Power from any other source through Competitive Bidding"</u>

Sr. No.	Document / Clause Reference	Comments / Suggestions
1.	8.1 Escalation Rate for domestic coal (for Evaluation): 8.5 Escalation Rate for Imported Coal (For Evaluation)	 The staff paper fairly proposes consideration of separate indices for evaluation of bids based on Domestic and Imported coal. This is also in line with the Competitive Bidding Guidelines of the Central Government for procurement of power and accordingly the same should be retained.
2.	9. Discount Rate for Bid Evaluation "Weighted Average Cost of Capital (WACC) has been considered as discount rate and computed as under: WACC = Cost of Debt + Cost of Equity Where, Cost of Debt = 0.70 (Market Rate of Interest) X (1-Corporate Tax Rate) Cost of Equity = 0.30 (Risk Free Rate + b (Equity Market Risk Premium)) The computation of WACC can be seen in the following table.	Hon'ble commission has proposed 'Cost of Debt' as Post-tax and 'Cost of Equity' as Pre-tax. Principle adopted for calculating Discount rate shall be based on Tax considered in Tariff calculation, 'Cost of Debt' and 'Cost of Equity' & should be same for all. Hon'ble commission may calculate WACC based on 'Cost of Debt' and 'Cost of Equity' either Post-tax OR Pre-tax. Since Tariff's are derived inclusive of Direct Taxes, Discounting rate used for Bid Evaluation shall also be inclusive of Tax i.e. Pre-Tax.
		In case Hon'ble commission still decides to consider Post Tax WACC following is suggested: The Corporate tax rate should be inclusive of surcharge.

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	DISCOUNT RATI	1	•	Similarly, the Co	ost of Eq	uity (cal	ulated	based on		
	Weighted Values	Cost of Debt/Equity	WACC (%)]		CAPM model)	should	be afte	r tax	(including
	1. Cost of Debt (after tax)			1		surcharge).				
	0.70(Cost of Debt)x(1-CTR)	6.21		1		surcharge).				
	2. Cost of Equity									
	0.30((RF+b (ERP))	2.63		1						
	Discount Rate (1+2)		8.84	-						
	Assumptions used for computing the Discount Rate									
	Components of Debt/Equity		Assumptions (%)]						
	Debt		70.00]						
	Equity		30.00	1						
	Corporate Tax Rate (CTR)		22.00	1						
	Risk Free rate (RF)		6.99	1						
	Beta Value (b)	`	0.72	1						
	Equity Market Risk Premium (ERP) Cost of Debt	/	2.47	-						
			12.67	1						
	Cost of Equity		8.75]						
	The Debt and Equity of 70 Debt and Equity in its Tar									
	corporate tax rate propos	sed in the Union Budg	get for the year 2	2020-21 (i.e.						
	excluding surcharge and	cess) has been ass	umed while cor	nputing the						
	discount rate.									
	While calculating the cost	of debt, the market r	ate of interest is	being linked						
	to the marginal cost of fu	ınds based lending ra	ite (MCLR) that i	refers to the						
	minimum interest rate of	a bank below which it	t cannot lend, ex	cept in some						
	cases allowed by the RBI.	The market rate of in	terest for the yed	ar 2019 shall						
	be taken as the MCLR (9.	17%, i.e., average of	MCLR of five ma	ijor banks) +						

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	350 basis points. Accordingly, the market rate of interest has been taken as	
	12.67%.	
	10 year GOI securities rate for 2019 is being considered as the risk-free rate.	
	For the calculation of cost of equity, the market risk premium is assumed as	
	the difference between the expected market return and the risk free rate.	
	Accordingly, the market risk premium in this Notification has been arrived at	
	by subtracting the average risk-free rate for the last 10 years from the	
	average rate of return on market portfolio over the past 10 years. Sensex	
	values for the past eleven years have been used to arrive at rate of return on	
	the market portfolio for the past 10 years. Historical approach has been	
	adopted for arriving at the expected market return assuming the expected	
	future return to be the same as past returns. The beta value has been	
	computed based on the data on Bombay Stock Exchange (BSE) Indices for	
	Power Sector and Sensex for the year 2019.	
	The WACC computed in the above table (8.84%) shall be notified as discount rate for bid evaluation."	