S.No.	Proposed Provisions	Suggestions	Justification
1.	Clause 4.4	 The proposed scheme actually 	Electricity Act, 2003 envisaged useful life of 25 years for
	25 years is the minimum period that has been	increases the commercial risks for	thermal power stations and accordingly, maximum tenor of
	considered as life of a thermal generating	the thermal power stations as there	the power purchase agreements, whether in a Section 62 or
	station. Accordingly, the useful life of the ECS	may be a scenario wherein the	Section 63 scenario, were kept as 25 years. The tenor of
	is considered as 25 years in line with the other	arrangement for sale of power is not	long term open access being granted by PGCIL was also 25
	major equipment of generating plant.	secured, commensurate with the life	years.
	However, many generating stations have	of FGD systems, thereby risking the	
	already been in operation for a few years and	recovery of capital expenditure	Under the proposed scheme of things, the existing status
	the remaining useful life in case of such	related to ECS. Unless PPAs are	quo is being disturbed and it is envisaged that the useful
	generating stations is less than 25 years.	extended to be in line with 25 years	life of the thermal power stations will be more than 25
	Therefore, while considering the useful life of	after ODe of ECS, the generation	years.
	ECS as 25 years, it has been assumed that the	units will face non-recovery of ECS as	In case of bidding also, all the terms & conditions of PPA
	useful life of the generating station would be	there is no certainty or assurance of	including tenure of the PPA has been known to all bidders
	subsequently extended. The salvage value of	availability of procurers or getting a	participating in the Bid (PPA is a part of RFP document). As
	ECS has been considered as 10% after	tariff that will cover the cost of ECS.	tenure of PPA has been 25 years for section 63 projects, all
	completion of its useful life.	Hence, to mitigate this risk, the	bidders had factored the life of the plant as 25 years and
	Clause 4.5	Hon'ble Commission is requested to	considered various cost components to be recovered in 25
	In many cases, the term of the PPA may	consider the following:	years while arriving at quoted tariff. It is also important to
	be ending earlier than the useful life of the		mention that in none of the Bid documents like RFP, RFQ,
	generating station.	Deprecation against total ECS CAPEX	etc it had been specified that plant life should be
	Clause 4.6.	to be allowed over remaining PPA	considered more than 25 years for the bid purpose. As PPA
	mere can be no obligations on the existing	period or 25 years from Date of	life was mentioned as 25 years, all bloders considered the
	procurers to procure power beyond the	Operation (Ode) of the generating	cost assuming plant life of 25 years and quoted tarms
	por the DDA Therefore recovery of	station whichever is earlier.	(2Events) was not envisored in Rid/DDA. Therefore, it is not
	componentian from the existing procurers for	Ine term of the existing long term	(25years) was not envisaged in Bid/FFA. Therefore, it is not
	the period beyond the contracted period of	open access for the thermal power	for any hid out projects. Hon'ble Commission would
	PPAs is not justified Therefore a procurer	plant extended to be in line with the	appreciate that there would be costs involved in extending
	should be liable to nay compensation for	useful life of the ECS.	the useful life of the plant beyond 25 years in terms of RIA
	Change in Law only for the duration of its		+ R&M and such costs would have to be recovered from
L			

Comments by	/ Tata	Power	Company	/ Limited

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	contract and commensurate to its contracted		procurers in the event of extended tenures of PPA.
	capacity.		
			In this regard it may be noted that there is no certainty that
	Clause 4.8.		PPA will extended beyond PPA period. Taking into account
	It is suggested that the compensation for		the thrust given by policy makers on renewable energy in
	installation and operation of the ECS should		India, it is unlikely that PPA will be extended beyond
	be available to the seller from the Date of		current PPA period. Even assuming that PPA is extended,
	operation (ODe) of the ECS		there is no certainty that PPA will be extended in such
	Clause 4.9		manner to complete total 25 years of ECS life from the ODe
	Based on the above, life of 25 years has been		to recover the balance depreciation. Also generating
	considered for ECS. Accordingly, 90%		company will have an option to recover the unrecovered
	(considering salvage value of 10%) of		compensation (beyond PPA period) by continuing the
	additional capital expenditure on account of		operation beyond PPA period provided there is PPA beyond
	installation of ECS is proposed to be recovered		current PPA period & tariff is commercially viable for
	by the generating company in 25 years as		generators.
	depreciation {straight line method @3.6%		Further in case Depreciation is allowed over remaining PPA
	(90%/25) per year} starting from ODe of ECS.		life(<25 years) with assumption that PPA will be extended
			further, it will provide the Discoms an upper hand to arm
			twist the generator to agree for the tariff as desired by
			Discoms which may not be commercially viable for
			generating companies.
			It was envisaged in PPA that any change in law during
			construction period, i.e. any change in law impacting
			CAPEX, to be recovered during PPA period ONLY as
			Procurers are liable to pay for the entire capital cost of the
			project during PPA period. Therefore, depreciation to be
			allowed within current PPA period.
			As mentioned in the para 3.6 to the Staff Paper, APTEL and
			the Hon ble Supreme Court held that that the provision
			CAPEX, to be recovered during PPA period ONLY as Procurers are liable to pay for the entire capital cost of the project during PPA period. Therefore, depreciation to be allowed within current PPA period. As mentioned in the para 3.6 to the Staff Paper, APTEL and the Hon'ble Supreme Court held that that the provision contained in Article 13.2 of the PPAs requiring to restore

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			the affected parties to the same economic position as if the
			event of Change in Law had not occurred "is in consonance
			with the principle of 'restitution' i.e. restoration of some
			specific thing to its rightful status" and that the affected
			party "is eligible for Carrying Cost arising out of approval of
			the Change in Law events from the effective date of Change
			in Law till the approval of the said event by appropriate
			authority". If Depreciation @ CERC proposed rate is
			allowed, generators will not able to recover the capital cost
			of the project within current PPA period. Therefore, the
			purpose of restitution for the affected party (generating
			company) as held by APTEL & SC will be completely
			defeated.
			It is mentioned in para 3.2 that substantial part of such
			capital expenditure may have to be in the form of debt
			from banks and other financial institutions. Often, the
			banks and financial institutions, before committing to such
			funding, insist on approval of regulator as regards the
			proposed capital expenditure and a mechanism for
			recovery of such capital expenditure through tariff. If
			Depreciation (used for loan repayment) is allowed @ CERC
			proposed mechanism till expiry of current PPA period, then
			there may be not adequate cash from FGD tariff/revenue
			to meet loan repayment and thereby generating company
			will default in loan repayment. As mentioned the above
			para , even if there is approval of regulator as regards the
			proposed capital(ECS) expenditure, the banks and financial
			institutions may not participate in debt funding for ECS
			CAPEX if the recovery of such costs remains uncertain.
			In the event, current PPA is not extended, generator will

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			not able to repay the Debt leading to potential default/ NPA.
2.	Clause 4.10		
	The cost of capital employed also known as	The additional capitalization is expected to	The Staff Paper proposes compensation for capital
	the cost of fund infused represents the	be funded through both debt and equity	expenditure equivalent to the cost of debt thereby ignoring
	weighted average cost of debt fund and equity	capital in the ratio of 70:30. Debt providing	the cost of equity capital. Hence, the proposal for
	fund deployed in the project. Considering the	Fls/ banks and other institutions provide	compensation in the Staff paper is not meeting investor
	fact that any compensation mechanism needs	debt funds on the condition that the asset	expectation and falls way below cost of capital for investors
	to be based on the principle of restitution,	owner has put in equity capital as per the	and hence is not a viable investment to make. As
	there can be no expectation of profit in any	normative ratio mentioned above. It is the	investment in ECS is quite substantial, returns not in line
	component of tariff.	asset owner who bears the risks of the	with the current equity cost of capital of about 15-16%
		project and expects	would not make it an attractive proposition.
	Clause 4.11	reasonable returns commensurate with that	
		on risk capital. Hon'ble Commission has	The Staff Paper assumes that a "substantial part of the
	Accordingly, additional capital expenditure on	suggested that the entire capital on account	capital expenditure may have to be in the form of debt
	installation of emission control system is	of ECS be financed on NFA basis @ weighted	from banks and other financial institutions". Choice of
	proposed to be serviced on Net Fixed Assets	average cost of debt OR SBI MCLR as on 1 st	funding should be left open to the generation companies
	(NFA) basis (value of fixed assets reducing	April of the year on which the project is	and assuming debt as the major source of capital
	each year by the depreciation value) @	commissioned + 350 basis points. This	expenditure may not be appropriate as some of the
	weighted average rate of interest of loans	equates the costs of both equity and debt	companies may be already over-leveraged. Hence (a)
	raised by the generator or at the rate of	capital and goes against the established fact	banks and financial institutions may not finance the project
	Marginal Cost of Lending Rate of State Bank of	that it is more expensive to service equity	despite approval from regulator on the compensation and
	India (for one year tenor) plus 350 basis	than to service debt (for reasons stated	(b) lenders will expect equity contribution at the normal
	points, as on 1st April of the year in which	above).	ratio of 70:30.
	emission control system is put into operation,		
	whichever is lower.	It is submitted that equity investors would	compensation equivalent to cost of debt is not in
		expect a return which would be higher than	consonance with the concept of cost of equity capital. Cost
		the average cost of debt as suggested by	of equity capital represents a nurdle rate that a company
		Hon die Commission.	must overcome before it can generate value and is the
			opportunity cost of making an investment. In short, about

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		In keeping with the principle of restitution	15-16% is the cost of capital and investors will only invest in
		and in order to facilitate the execution of the	projects that will provide returns that exceed the cost of
		ECS project (mandated as per Law) which in	their capital. This concept is also highlighted in Capital
		turn would require availability of funds, the	Asset Pricing models and supported by valuation experts.
		following is submitted for kind consideration	
		of the Commission:	Further as per staff paper, ROE is proposed on NFA which
			mean ROE in absolute terms will keep on decreasing on
		1. RoE to be based on gross fixed asset	year on year basis based on depreciation(on ECS Capex)
		not on net fixed asset.	allowed in tariff. As per the Regulatory philosophy ROE is
		2. Cost of additional capital be funded	allowed on the equity investment made by the project
		@ average rate of cost of debt to	developer. Increase/decrease on ROE in absolute terms is
		developer for 70% of capital	dependent upon addl capitalization/decapitalization
		employed and @ (average cost of	approved by Commission. If ROE is allowed on Net Fixed
		debt to developer + 500 basis points)	Assets, it will be construed that value of investment made
		for 30% of capital employed.	by Project Developer is eroded Y-0-Y basis. Therefore, ROE
			on NFA is against the spirit of basic regulatory principle.
3.	Clause 4.13		
	The Commission, in some of the orders, has	1. It is submitted that as per our	O&M cost to be based on gross GFA i.e. Capital Cost
	allowed provisional first year O&M expenses	estimate the O&M expenses	approved by CERC after prudence check not on additional
	@2% of capital expenditure for installation of	including the manpower cost and	capex excl. FERV & IDC .
	FGD (excluding IDC and FERV) admitted by the	routine maintenance spares work	O&M cost include manpower cost which normally increases
	Commission after prudence check. On similar	out to nearly 5% of the Capital cost	by 6-7% annually under minimum Wages Act also. In
	lines, it is proposed that additional O&M	excluding IDC and IEDC. However, as	addition, escalation in cost of spares & consumables for ECS
	expenses for first year may be allowed @2%	Hon'ble Commission may deem fit,	depends upon inflation & forex rate (imported spares).
	of additional capital expenditure (ACEECS) for	may continue with the proposed	Therefore, Yearly escalation @3.5% needs to be revisited.
	installation of ECS (excluding IDC and FERV),	norms but include the provision for	
	admitted by the Commission after prudence	true-up at actuals. Once Hon'ble	
	check. For subsequent years, the first year	Commission will have adequate data	
	O&M expenses may be escalated @3.5% or	backup during this control period, it	
	any other escalation rate as may be specified	may decide the generic norms	

S.No.	Proposed Provisions	Suggestions	Justification
	by the Commission. The above O&M expenses may subsequently be reviewed based on actual O&M expenses of ECS installed at various generating stations.	 thereafter. 2. It is requested to consider the O&M cost to be on GFA not GFA less FERV & IDC. Particularly FERV is not under control of the generating company. Any impact of FERV is an integral part of hard cost/project cost 	
		 In a multiunit power station, this needs more clarification as each FGD Unit will have different Date of Operation (ODe) 	
4.	Clause 5.3 The recovery of monthly Supplementary Energy Charges (SECm) will be made by applying following formula: 	Hon'ble Commission may provisionally consider the impact of 1.01% on Normative Station Heat Rate i.e. (SHR/(1-1%)) due to reduction boiler efficiency by 1% while finalizing the Regulations subject to true-up as per bid guarantee as it would severally impact the energy cost for reasons not attributable to Generating Stations.	Emission Control System will have impact on the Station Heat Rate of the generating unit(s). Hence, the normative SHRs of the generating unit(s) should also be adjusted appropriately. The 'in-combustion control system' which is one of the most suited method for abatement of NOx upto range of 450mg/Nm3 is sensitive to operational aspects and majorly impacts the boiler efficiency. Boiler efficiency will reduce due to increased unburnt carbon loss after implementation of 'In Combustion Control Technology'. The same has been highlighted by all the bidders for installation of In-Combustion control system for limiting NOx emissions. It is understood that the adverse impact on boiler efficiency would vary in the range of 0.8% to 1.8% depending on the site condition as per the discussions with vendors. Also, in case of SNCR system, because of water injection in

Proposed Provisions	Suggestions	Justification
		the furnace, Boiler efficiency will decrease by 0.3% to 0.4% leading in increase in normative unit / station heat rate
		which will impact energy charges.
Annexure-I, Additional Auxiliary Power	Regarding auxiliary consumption as given in	
Consumption	annexure 1, the following may be	
 For reduction of sulphur dioxide 	considered:	
a) For wet limestone FGD (without		
Gas to Gas Heater) - 1%	a) For wet limestone based FGD,	
b) Semi dry FGD system - 1%	Auxiliary Power Consumption will be	
c) DSI (using sodium bicarbonate) -	dependent on plant specific design.	
Nil	The limit of Auxiliary Power	
d) For CFBC Power Plant - Nil	Consumption for wet limestone	
e) Sea water based FGD (without	based FGD Shall be 1.2% in place of	
GGH) - 0.7%	1.0%.	
2) For reduction of emission of oxides of	b) Auxiliary Power consumption for DSI	
nitrogen	should be 0.5%	
a) SNCR - NII	c) Auxiliary Power Consumption	
D) SCR System - 0.2%	without Gas to Gas heaters for sea	
	Water based FGD shall be 0.9%. For	
	Gas to Gas Heater, additional APC of	
	d) Auxiliany Dowor Consumption for	
	a) Auxiliary Power Consumption for	
	considered It shall be 0.05%	
	 Proposed Provisions Annexure-I, Additional Auxiliary Power Consumption For reduction of sulphur dioxide For vet limestone FGD (without Gas to Gas Heater) - 1% Semi dry FGD system - 1% Semi dry FGD system - 1% DSI (using sodium bicarbonate) - Nil For CFBC Power Plant - Nil For reduction of emission of oxides of nitrogen SNCR - Nil SCR system - 0.2% 	Proposed ProvisionsSuggestionsAnnexure-I, Additional Auxiliary Power ConsumptionRegarding auxiliary consumption as given in annexure 1, the following may be considered:1) For reduction of sulphur dioxide a) For wet limestone FGD (without Gas to Gas Heater) - 1% b) Semi dry FGD system - 1% c) DSI (using sodium bicarbonate) - NilRegarding auxiliary consumption as given in annexure 1, the following may be considered:a) For wet limestone FGD (without GGH) - 0.7%a) For wet limestone based FGD, Auxiliary Power Consumption will be dependent on plant specific design. The limit of Auxiliary Power Consumption for wet limestone based FGD Shall be 1.2% in place of 1.0%.2) For reduction of emission of oxides of nitrogen a) SNCR - Nil b) SCR system - 0.2%b) Auxiliary Power Consumption for DSI should be 0.5%c) Auxiliary Power Consumption without Gas to Gas heater, additional APC of 0.3% shall be considered.c) Auxiliary Power Consumption for SNCR System shall also be considered. It shall be 0.05%

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6.	Annexure-I,	e)	The	Hon'ble	Commission	It may kindly be noted that the assumptions considered for
	2 (1) Norms for consumption of reagent,		reque	ested to ren	nove the minimu	evaluation of normative consumption of Specific Reagent
	(a) For wet limestone based FGD		% stip	oulation on li	mestone purity	for various technologies for reduction of emission of
	The specific limestone consumption (g/kWh)					Sulphur Dioxide would depend on several parameters such
	shall be worked out by following formula:	f)	lt is	requested	to consider SC	2 as (a) Normative Station Heat Rate (after duly factoring
	= [0.85 x K x SHR (kCal/kWh) x S (%)]/[GCV		conve	ersion facto	r 100% i.e. 100	impact of ECS system) (b) GCV of Coal, (c) Sulphur content
	(kCal/kg) x LP (%)]		Sulph	ur available	e in coal will b	e of Coal (f) Purity of Reagent (g) Design SO_2 Removal
	Where,		conve	erted to SO2		efficiency of the ECS and (h) Stoichiometric molar ratio of
	S = Sulphur content in percentage,					reagent consumption and therefore assigning normative
	LP = Limestone Purity in percentage;					values in some of the cases may not be correct. As such a
	Provided that value of K shall be equivalent to					common empirical formula may be provided to compute
	(35.2 x Design SO2 Removal Efficiency/96%)					the specific reagent consumption for various technologies
	for units to comply with SO2 emission norm of					wherein it is proposed that these parameters may be
	100/200 mg/Nm3 or (26.8xDesign SO2					considered at actual/or as recommended by CEA rather
	Removal Efficiency/73%) for units to comply					than assigning them predefined values which seems
	with SO2 emission norm of 600 mg/Nm3;					inappropriate.
	Provided further that the limestone purity					
	shall not be less than 85%.					The details of common empirical formula with relevant
						details in enclosed in Tata Power Annexure 1 for kind
						consideration of the Hon'ble Commission. It may be noted
						that this is the same formula that CEA has used, including
						for computation of K, and incorporates all parameters
						considered by it.
						Further, in the formulation of CEA, the value of SO2
						conversion factor has been considered as 0.95 or 95% for
						which no basis has been given, whereas in most of
						calculations by bidders nowadays this factor is taken as
						100%.
						Similarly, for computing limestone purity, it may be clarified

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			that the same relates to purity with refence to reactive
			component of limestone. Thus, in a limestone with purity of
			say 85%, 5-10% may be non-reactive limestone and, hence,
			effective purity of reactive limestone shall be in the range
			of 76.50%-80.75%. This is again a commonly sought factor
			by bidders for the purposes of guaranteed purity. The
			paper showing non-reactive component of limestone being
			between 6-13% is attached herewith as Tata Power
			Annexure 2.
			It is also to be noted that while CEA has acknowledged that
			stoichiometric ratio increases with increase in efficiency of
			Sox or NOx removal system, it has considered only one
			value of stoichiometric ratio which is on lower side as per
			our assessment based on discussions on guarantees with
			bidders in this regard. Therefore, we have proposed slightly
			higher stoichiometric ratios, which are practically
			achievable and are requested to be considered.
			Also, it may be noted that Limestone with lower purity can
			also be used specially in eastern region plants where low
			grade limestone from Jharkhand, Orissa and West Bengal
			can be sourced. Hence cap on limestone purity may be
			removed. Further, the variation in the price of the
			limestone does not vary linearly with the purity and
			therefore, in case when avenue of utilization of disposal is
			not available or the overall cost of lower purity limestone is
			less than high purity levels, flexibility should be given to the
			Generators to choose the appropriate purity of limestone
			after having cost benefit analysis of reagent cost plus
			disposal cost of the byproducts. Therefore, in cases, where

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			utilities are not able to fully use gypsum produced, they
			may source low quality limestone for reducing reagent cost
			and, hence, energy cost.
7.	Annexure-I,	The Hon'ble Commission is suggested to	Specific reagent consumption values given corresponds to
	2 (1) Norms for consumption of reagent.	indicate Sodium Bicarbonate consumption	approx. 60% SO2 removal efficiency, inlet SO2 loading of
	c) For Dry Sorbent Injection System	with SO2 removal efficiency and inlet SO2	1450 mg/Nm3 and meeting SO2 limit of 600 mg/Nm3. In
	The specific consumption of sodium	loading.	case of higher removal efficiency say 70% SO2 removal
	bicarbonate shall be 12 gm per kWh at 100%		efficiency & inlet SO2 loading of 1800 mg/Nm3, specific
	purity.		reagent consumption will be 21 g/KWH. Hence, it is
			suggested to indicate Sodium Bicarbonate consumption
			with SO2 removal efficiency and inlet SO2 loading. We
			have, therefore, proposed a generic formulation for DSI,
			wet limestone and dry/semi dry FGD as given in Tata Power
			Annexure 1, which accommodates these parameters as
			variables for different site conditions
8.	Annexure-I,	The Hon'ble Commission is requested to re-	In case of CFBC Boilers, Ca / S molar ratio depends on SO2
	2 (1) Norms for consumption of reagent,	check the K value for CFBC Boiler, indicate	removal efficiency required & with increase in removal
	(d) For CFBC Technology Furnace Injection	range of efficiency for which K value is	efficiency, Ca/S molar ratio increases. The SO2 removal
	System.	specified and factor design efficiency.	efficiency required will depend on inlet SO2 level and outlet
	The specific limestone consumption for CFBC		SO2 level to be achieved. The inlet SO2 level will depend on
	based generating station (furnace injection) at		fuel being fired in CFBC Boilers. Hence it is suggested not to
	85% purity limestone (kg/kWh) shall be		give general formula for specific reagent condition for CFBC
	computed with the following formula:		Boilers. Even if, it need to be indicated, corresponding
	= [62.9 x S (%) x [SHR (kCal/kWh) /GCV		conditions like range of SO2 removal efficiency need to be
	(kCal/kg)] x [0.85/ LP]		indicated and design efficiency need to be factored similar
	Where		to wet limestone based FGD. It is suggested to re-check the
	S= Sulphur content in percentage,		K value for CFBC Boiler, indicate range of efficiency for
	LP = Limestone Purity in percentage.		which K value is specified and factor design efficiency.

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			As stated above, a common formula has been proposed in
			Tata Power Annexure 1 to capture the above points.
9.	Annexure 1	Hon'ble CERC may consider not to specify	Additional new clause (F) Norms for consumption of
		norms in view of the rationale provided.	reagent
	2 (2) The normative consumption of specific		Sub clause (2) Normative Consumption for specific reagent
	reagent for various technologies for		for various technologies for emission of Nitrogen Oxides
	reduction of emission of oxide of nitrogen		a) Selective Non catalytic reduction
	shall be as below:		Comments:
	(a) For Selective Non-Catalytic Reduction		1. It is to be specified that reagent consumption indicated is
	(SNCR) System: The specific urea Consumption		for reducing NOx emission to <300 mg/Nm3 from the base
	of SNCR system shall be 1.2 gm per kWh at		level achieved after 'In Combustion Modification'
	100% purity of urea.		2. Specific Urea consumption will depend on NOx value
	(b) For Selective Catalytic Reduction (SCR)		achieved during 'In Combustion Modification'. In case NOx
	System: The specific ammonia consumption of		value achieved during 'In Combustion Modification is 450
	SCR system shall be 0.6 gm per kWh at 100%		mg/Nm3, specific urea consumption will be 1.55 gm / KWH.
	purity of ammonia.		In case NOx value achieved during 'In Combustion
			Modification is 400 mg/Nm3, Specific urea consumption
			shall be 1.30 gm/KWH.
			Accordingly, a generic formula based on CEA's methodology
			has been given in Tata Power Annexure 1, but with slightly
			higher stoichiometric ratios.

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10	Additional Point		
	The Paper does not talk about Reduction in Long Term Access (LTA) Capacity for Beneficiaries due to Lower Declared capacity (DC) on account of the enhanced auxiliary power consumption due to ECS	The Hon'ble Commission is requested to device a mechanism for relinquishment of the transmission capacity equivalent to auxiliary power consumption of ECS without any liability.	Reduction in DC due to Additional Auxiliary Consumption due to FGD system as well as increase in AUX consumption, would mean that Long Term Open Access Capacity booked by the beneficiaries would not be fully utilized to the extent it was envisaged at the time of taking LTA with the CTU. The LTA Capacity would, therefore, need to be reduced to the extent of Additional Auxiliary Consumption for FGD. Hon'ble Commission is requested to allow the same immediately after installation of FGD system as per applicable Regulations for the same.
11	Additional point The staff paper is not clear about waste water treatment O&M expenses e.g. if due to Zero Liquid Discharge (ZLD) status, plants are not allowed to dispose FGD water and treatment scheme has to be put, e.g filter press followed by multistage evaporator and incinerator, then cost towards chemical dosing as well as steam, electricity will have to be also accounted for apart from the huge CAPEX.	In such condition following addition cost / APC shall be allowed: a) Additional APC in Waste Water Treatment Plant b) Cost towards additional steam consumption / compensation in SHR due to steam consumed in waste water treatment plant c) Additional cost of chemical	
12	Additional point		
	The Staff Paper doesn't consider fresh water consumption in supplementary energy charges	Fresh water consumption shall also be considered in "supplementary energy charges". It shall be (i) Wet limestone based – 0.21 m3/MWH (ii) Sea water based FGD – Service water 0.02 m3/MWH	

S.No.	Proposed Provisions	Suggestions	Justification