

Ref.: UPCL/CERC/15052020 Date: 15.05.2020

То

The Secretary Central Electricity Regulatory Commission 3rd and 4th Floor, Chanderlok Building 36 Janpath, New Delhi -110001

Sub.: Comments on Draft CERC Terms and Conditions of Tariff (First Amendment) Regulations, 2020.

Dear Sir

With reference to the comments invited by the Hon'ble Commission on the above mentioned Draft Regulations, we hereby submit our comments on the same with a request to kindly take the same on record.

Thanking You,

Yours Sincerely,

For Udupi Power Corporation Limited

Authorized Signatory Encl: As mentioned above

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Sr. No.	Draft CERC Tariff (First Amendment) Regulations 2020	Proposed Amendments	Comments
1.	12.1. In the first proviso under Clause (2) of Regulation 30 of the Principal Regulations, the words "excluding additional capitalization due to Change in Law," shall be deleted and at the end of the said proviso, the words and expressions "or in the absence of actual loan portfolio of the generating station or the transmission system, the weighted average rate of interest of the generating company or the transmission licensee, as the case may be, as a whole, shall be considered;" shall be added.	To be deleted	First proviso under Clause (2) of Regulation 30 of the Principal Regulations was provided for differentiating additional capitalization due to Change in Law like Emission Control System from other additional capital schemes. It is submitted the distinction needs to be maintained as provided in principal Regulations. As submitted below RoE at 15.5% to be allowed for emission control systems installed pursuant to Change in Law.
2.	 12.2. A new clause, namely, Clause (3) shall be added after Clause (2) of Regulation 30 of the Principal Regulations, as under: "(3) The return on equity in respect of additional capitalization due to emission control system shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or in the absence of actual loan portfolio of the generating station, the weighted average rate of interest of the weighted average rat	 12.2. A new clause, namely, Clause (3) shall be added after Clause (2) of Regulation 30 of the Principal Regulations, as under: "(3) The return on equity in respect of additional capitalization due to emission control system shall be computed at the base rate of 15.5% for thermal generating station. 	Generating Companies are in advance stage of execution of the Emission Control Systems (ECS) and this retrospective modification in rate of return will adversely affect the financing of these ECS projects. ECS project is a standalone financial projects which will not be completely funded by debt by Banks/Financial Institutions If the developers are required infuse Equity then they would expect risk adjusted returns which would be in excess to the cost of debt, which in present Regulations is pegged at 15.5% for new projects. If the said rate is not granted developers may not be able to infuse the necessary equity or may

Comments on draft Central Electricity Regulatory Commission (Terms and Conditions of Tariff) (First Amendment) Regulations, 2020

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	generating company as a whole shall be		not bring it at all which may cause delay/hamper
	considered		the Emission Control System project.
			Having encouraged developers to invest in
			power projects by assuring RoE at 15.5% it may
			not be correct from regulatory perspective to
			provide lesser RoE to them for additional equity
			infusions which are mandatory to meet revised /
			new rules/guidelines of Gol.
	15. Amendment of Regulation 34 of the	15. Amendment of Regulation 34 of the	Advance payment for limestone / reagent for 30
	Principal Regulations	Principal Regulations	days to be allowed on the same lines of
	15.1. A new clause, namely, Clause (aa)	15.1. A new clause, namely, Clause (aa) shall	regulation 34 a (ii).
	shall be inserted after Clause (a) of	be inserted after Clause (a) of Regulation	
	Regulation 34 of the Principal	34 of the Principal Regulations as under:	
	Regulations as under:	"(aa) For emission control system of coal or	
	"(aa) For emission control system of coal	lignite based thermal generating stations:	
	or lignite based thermal generating		
	stations:	(i) Cost of limestone or reagent towards	
		stock for 20 days corresponding to the	
3.	(i) Cost of limestone or reagent towards	normative annual plant availability factor;	
2.	stock for 20 days corresponding to the		
	normative annual plant availability factor;	(ii) Advance payment of limestone/reagent	
		for 30 days	
	(ii) Receivables equivalent to 45 days of	,	
	supplementary capacity charge and	(iii) Receivables equivalent to 45 days of	
	supplementary energy charge for sale of	supplementary capacity charge and	
	electricity calculated on the normative	supplementary energy charge for sale of	
	annual plant availability factor;	electricity calculated on the normative	
	r · · · · · · · · · · · · · ·	annual plant availability factor;	

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No.	Regulations 2020(iii) Operation and maintenance expensesin respect of emission control system forone month;(iv) Maintenance spares @ 20% ofoperation and maintenance expenses inrespect of emission control system."	 (iv) Operation and maintenance expenses in respect of emission control system for one month; (v) Maintenance spares @ 20% of operation and maintenance expenses in respect of emission control system 	
4.	16.2. Sub Clause (7) Amendment of Regulation 35 of the principal regulation " Provided that income generated from sale of gypsum or other by-products shall be reduced from the operation & maintenance expenses."	 16.2. Sub Clause (7) Amendment of Regulation 35 of the principal regulation " Provided that net income generated from sale of gypsum or other by-products after adjustment for the cost incurred in disposal of Gypsum shall be reduced from the operation & maintenance expenses." 	Disposal cost of Gypsum along with transportation cost to be reimbursed. Sale of Gypsum (income) shall not be linked to the O&M expenses as large number of TPPs will be generating & disposing Gypsum. Further, the sale will be dependent on various factors such as purity, demand & proximity of the user etc. As all thermal stations will install FGD's, market for Gypsum sale may become thin & Gypsum disposal may become a big challenge.
5.	 16.2. Sub-Clause(7) of Clause (1) of Regulation 35 of the Principal Regulations along with its proviso shall be substituted as under: "(7) The operation and maintenance expenses on account of emission control system in coal or lignite based thermal generating station shall be 2% of the admitted capital expenditure (excluding IDC & IEDC) as on the date of its 	 16.2. Sub-Clause(7) of Clause (1) of Regulation 35 of the Principal Regulations along with its proviso shall be substituted as under: "(7) The operation and maintenance expenses on account of emission control system in coal or lignite based thermal generating station shall be 2.5% of the admitted total capital expenditure including any undischarged liability, which 	O&M cost should be linked to total admitted capital cost of ECS project including undischarged liability. For seawater based FGD system, O&M expenses at the rate of 2% of Admitted Capital Expenditure is too low and it is necessary to increase it to 2.5% since sea water is used in large quantities for Sulphur dilution from flue

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	operation, which shall be escalated annually at the rate of 3.5% during the tariff period ending on 31st March 2024: Provided that income generated from sale of gypsum or other by-products shall be reduced from the operation & maintenance expenses."	shall be escalated annually at the rate of 3.5% during the tariff period ending on 31st March 2024: Provided that income generated from sale of gypsum or other by-products shall be reduced from the operation & maintenance expenses."	gas and it involves additional expenditure in the form of higher water cess.
6.	17. Amendment of Title of Chapter 10 ofthe Principal Regulations 17.1. The Title of Chapter-10 shall besubstituted as "COMPONENTS OFENERGYCHARGESUPPLEMENTARY CHARGE	 17. Amendment of Title of Chapter 10 of the Principal Regulations 17.1. The Title of Chapter-10 shall be substituted as "COMPONENTS OF ENERGY CHARGEAND SUPPLEMENTARY ENERGY CHARGE 	
7.	21. Amendment of Regulation 42 of the Principal Regulations 21.1. In the proviso under the formula under Clause (2) of Regulation 42 of the Principal Regulations, the words "or installation of emission control system, as the case may be" shall be inserted after the words "Renovation and Modernisation" First proviso to Regulation 42 A Provided that in case of generating station or unit thereof under shutdown due to Renovation and Modernisation, the generating company shall be allowed to recover O&M expenses and interest on loan due to emission control system only.	The following words may be added to the proviso under the formula under Clause (2) of Regulation 42 of the Principal Regulations after the words on "loan only": <i>"and under shutdown for installation of</i> <i>emission control system the generating</i> <i>company shall be allowed to recover</i> <i>capacity charges."</i>	Shutdown period for implementation should be considered as Reserve Shut down and Capacity Charges pertaining to that needs to be allowed. Allowing only O&M expenses and interest on loan during the time of shut down of unit due to installation of emission control system will make the Generating station default on loan principal payments and will cause hardship to the developer, for implementing the directive of GOI. Hence, Capacity Charge (Interest on Loan, Depreciation, ROE, Interest on Working Capital, O&M expenses, etc) as mentioned in Regulation 15 Capacity and Supplementary Capacity Charges may be allowed during the shutdown period.

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No.	Regulation Clause 25 Amendme				For SW based FGD, Sea water is reagent and
	of the Principal Regu	-			Large quantity of sea water is required for
	(e) For Sea Wate	• •			sulphur dilution from Flue gas. Hence, water
8.	Desulphurization (F				Cess shall be considered under OPEX.
0.	reagent used is sea w				
	is no requirement				
	formulae for consum				
	25.1. A new sub-c	lause, namely, sub-	25.1. A new sub-claus	e, namely, sub-clause	Auxiliary Consumption prescribed as normative
	clause (bb) shall be	inserted after sub-	(bb) shall be inserted a	after sub-clause (b) of	are very low. APC for SWFGD shall be evaluated
	clause (b) of Clause	(E) of Regulation 49	Clause (E) of Regulati	on 49 of the Principal	on case to case basis. As per CEA
	of the Principal Regu	lations as under:	Regulations as under:		recommendation, the APC for SWFGD is about
	"(bb) Auxiliary Er		"(bb) Auxiliary Er	e ,	1.5% and the same may be considered in the
	(AUXen) on account			of emission control	proposed regulation. In addition, if CEA has
	system of thermal ge	nerating stations:	system of thermal ger	nerating stations:	made any specific recommendation on case to
					case basis, the same may be considered and
	Name of			AUXen (as % of	incorporated in the regulations.
	Technology	gross generation)	Technology	gross generation)	
9.	(1) For reducti	on of emission of	(1) For reduction	on of emission of	
	sulphur diox	side:	sulphur dioxi	ide:	
	a) Wet Limestone	1.0%	a) Wet Limestone	1.5%	
	based FGD system		based FGD system		
	(without Gas to		(without Gas to Gas		
	Gas heater)		heater)		
	b) Lime Spray	1.0%	b) Lime Spray Dryer	1.0%	
	Dryer or Semi dry		or Semi dry FGD		
	FGD System		System		
	c) Dry Sorbent	NIL	c) Dry Sorbent	NIL	
	Injection System		Injection System		

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	(using Sodium	(using Sodium	
	bicarbonate)	bicarbonate)	
	d) For CFBC Power NIL	d) For CFBC Power NIL	
	plant (furnace	plant (furnace	
	injection)	injection)	
	e) Sea Water 0.7%	e) Sea Water based 1.5%	
	based FGD system	FGD system	
	(without Gas to	(without Gas to Gas	
	Gas heater)	heater)	
	(2) For reduction of emission of oxide	(2) For reduction of emission of oxide of	
	of nitrogen :	nitrogen :	
	a) Selective Non- NIL	a) Selective Non- NIL	
	Catalytic	Catalytic	
	Reduction system	Reduction system	
	b) Selective 0.2%	b) Selective 0.2%	
	Catalytic	Catalytic	
	Reduction system	Reduction system	
	Provided that where the technology is	Provided that where the technology is	
	installed with Gas to Gas heater, auxiliary	installed with Gas to Gas heater, auxiliary	
	energy consumption specified as above	energy consumption specified as above	
	shall be increased by 0.3% of gross	shall be increased by 0.3% of gross	
	generation.	generation."	
		Provided that in case the CEA has made	
		any specific recommendation on case to	
		case basis, the same may be considered by	
		the Commission and incorporated in the regulations.	

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No.	Regulations 202025.2 (F) Amendment of Regulation 49 of the principal regulation"(F) Norms for consumption of reagent: (1) The normative consumption of specific reagent for various technologies for reduction of emission of sulphur dioxide shall be as below:(a) For Wet Limestone based Flue Gas De- sulphurisation (FGD) system: The specific limestone consumption (g/kWh) shall be worked out by following formula: [0.85 x K x SHR x S]/[CVPF x LP] (2) The normative consumption of specific reagent for various technologies for reduction of emission of oxide of nitrogen shall be as below:(b) For Selective Catalytic Reduction (SCR) System: The specific ammonia	 25.2. A new clause, namely Clause (F) shall be added after Clause (E) of Regulation 49 of the Principal Regulations as under: 25.2 (F) (1) (b) For Lime Spray Dryer or Semi-dry Flue Gas Desulphurisation (FGD) system: The specific lime consumption shall be worked out based on minimum purity of lime (PL) as at 80% or more by applying formula [0.80x6 /PL(%)] gm/kWh; 	Clause 25.2 (F) (b) - Emission values in mg/Nm3 considered for calculation at actual condition or 6% O2, dry condition can be added. Limestone purity consideration shall be 81% and more.
11.	consumption of SCR system shall be 0.6 gm per kWh at 100% purity of ammonia." Amendment of Principal Regulations Proviso to Regulation 24 (1) Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative	Modification proposed in Principal Regulations Proviso to Regulation 24 (1) Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after deduction of the	Additional Capitalisation pertaining to replacement of existing asset is undertaken by Generators are necessary for efficient and sustainable operations of plant. But the decapitalization of value of existing asset as provided in existing principal Regulations dis- incentivizes the Generators to invest in upkeep of the plant, as decapitalization of existing asset

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No.	Regulations 2020 depreciation of the assets replaced on	scrap value replaced asset from the	from the value of new asset leads to under-
	account of de- capitalization.	approved capital cost of the project.	recovery of capacity charges, viz., Interest on Ioan, Depreciation (provided for repayment of
	Regulation 25 (2)	Regulation 25 (2)	loan), return on equity for the investment made by Generators, etc.
	(2) In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed assets and the cumulative depreciation, subject to prudence check on the following grounds:	(2) In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after deduction of the scrap value replaced asset from the approved capital cost of the project, subject to prudence check on the following grounds:	Hence, it is proposed that clause related to decapitalization of asset may be modified to consider de-capitalisation only to the extent of the scrap value of any asset.
	Regulation 26 (2)	Regulation 26 (2)	
	(2) In case of de-capitalisation of assets of a generating company or the transmission licensee, as the case may be, the original cost of such asset as on the date of decapitalisation shall be deducted from the value of gross fixed asset and corresponding loan as well as equity shall be deducted from outstanding loan and the equity respectively in the year such de-capitalisation takes place with corresponding adjustments in cumulative depreciation and cumulative repayment	(2) In case of de-capitalisation of assets of a generating company or the transmission licensee, as the case may be, the scrap value replaced asset as on the date of decapitalisation shall be deducted from the value of approved capital cost, duly taking into consideration the year in which it was capitalised.	

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No.	Regulations 2020 of loan, duly taking into consideration the	Proposed New regulations	
	year in which it was capitalised.	29 (5) In case of de-capitalisation of assets	
		of existing Emission Control system for	
	29 – Additional Capitalisation on account	implementation of Revised Emission	
	of Revised Emission Standards	standards, the scrap value of replaced asset	
		as on the date of decapitalisation shall be	
		deducted from the approved capital cost,	
		duly taking into consideration the year in	
		which it was capitalised.	
	30 – Return on Equity		
	Existing provision in principal		It is submitted that the capital expenditure on
	Regulations:		
	(2) Return on equity shall be computed at		account of any change in Law are inevitable/mandatory, for existing generators
	the base rate of 15.50% for thermal		/transmission licensees, any proposal to reduce
	generating station, transmission system		the rate of RoE is regressive and such
	including communication system and run-		investment cannot be denied the legitimate RoE
	of-river hydro generating station, and at		at par with the prevalent norm.
	the base rate of 16.50% for the storage		at par with the prevalent norm.
	type hydro generating stations including		It is pertinent to keep in mind that additional
	pumped storage hydro generating		capitalization beyond CoD requires to be funded
12.	stations and run-of-river generating		through Equity only, as the lenders will be
	station with pondage:		reluctant to fund such additional capitalization.
	station with ponoage.		Since such additional capitalization shall be
	Provided that return on equity in respect		funded from owner's fund i.e. equity, therefore,
	of additional capitalization after cut-off		Hon'ble CERC should allow such additional
	date beyond the original scope excluding		Capitalization considering funding through
	additional capitalization due to Change in		equity and allow RoE on such additional
	Law, shall be computed at the weighted		capitalization.
	average rate of interest on actual loan		
	portfolio of the generating station or the		Hence, there is a strong case for Return on
	transmission system;		Equity for any additional capitalization after the

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No.	Regulations 2020		cut-off date within or beyond the original scope
	A new clause, namely, Clause (3) shall be added after Clause (2) of Regulation 30 of the Principal Regulations, as under: "(3) The return on equity in respect of additional capitalization due to emission control system shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or in the absence of actual loan portfolio of the generating station, the weighted average rate of interest of the generating company as a whole shall be considered;"		cut-off date within or beyond the original scope being computed at the regulated rate of 15.5% specified in the Regulations and not at the weighted average rate of interest on the actual loan portfolio because, any additional capitalization due change in law is admitted/approved only if it is reasonable and after prudence check by the Commission. In the present scenario where the stressed assets in the power sector are on the rise, mechanisms are in place to protect the interest of the lenders however, there is no mechanism available which protects the equity base of the project developer. This makes the risk associated with the equity capital very high. Therefore, the return available on any equity investment should also be commensurate with such risk perception and hence the rate for RoE for any additional capitalization after the cut-off date within or beyond the original scope should be retained at 15.5%. Additionally, Additional Capitalization due to any change in law is not in control of the generators / licensees and is enforced upon the generators / licensees by way of change in law by Government
			instrumentalities.
			In view of the additional capitalization required to be incurred by the generators / licensees to meet the change in law requirement, a reduced

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			rate of RoE will have an adverse impact on the financial position of the generators / licensee and also have a cascading impact on the cost of debt on account of increased risk perception by lenders. This will ultimately result in the increase in tariff for the Beneficiaries. In view of the above, it is requested that the RoE for additional capitalisation towards meeting revised emission norms should be retained at 15.5% as proposed in the principal regulations and the Clause (3) proposed in principal regulation 30 should be deleted.
13.	Principal Regulations 39 - Transit and Handling Losses Provided further that in case of imported coal, the transit and handling losses applicable for pit-head station shall apply.	Principal Regulations 39 – Transit and Handling Losses Provided further that in case of imported coal, the transit and handling losses applicable for pit-head station shall apply for plants which do not have Railway transportation to transport coal from the port to the plant.	Coal handling system in coastal based power plants differs from project to project. Hence, the Commission should have powers to distinguish the project specific features and accordingly determine the transit losses.
14.		Proviso to be added Regulation 24 (1), 25(1) and 26(1) of Principal Regulations. "(h). Efficient and/or Sustainable Operations for the power plant."	Under the existing Regulations, the Commission do not have power to approve any additional capitalisation even if it is prudent and necessary for operation of power plant. The proposed Regulations gives the power to the Commission that in case the Commission find it prudent, they can approve the additional capitalisation

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No.	Regulations 2020		pertaining to "Efficient and/or Sustainable
			operation of plant or asset.
			Present Principal Regulations does not cover
			most essential reason of undertaking Additional
			capitalisation by generators/licensee, viz.,
			efficient and sustainable operations of plant or
			asset. Intent of Cost plus regulations is to
			determine tariff based on prudent cost incurred
			by Generators or Licensees, excluding the most
			essential reason of Additional Capitalisation, the
			generators are forced to bear the cost of
			Additional Capitalisation from there assured
			Return of Equity, which is not the intent of the
			Cost Plus Regulations.
	Proviso to Regulation 38 of Principal	Proviso to Regulation 38 of Principal	Regulatory Accounting is on "Accrual basis" and
	Regulation	Regulation	existing provision provides for accounting on
	Provided further that landed fuel cost of	Provided further that landed fuel cost of	"Cash Basis". Hence, this amendment is
15.	primary fuel shall be worked out based	primary fuel shall be worked out based	proposed to remove this anomaly.
	on the actual bill paid by the generating	on the actually billed to the generating	
	company including any adjustment on	company including any adjustment on	
	account of quantity and quality;	account of quantity and quality;	
	Regulation 19(1) of Principal Regulations	Proviso to Regulation 19(1) to be added	To provide Regulatory certainty.
		In case of resolution of stranded asset	
		covered under these Regulations, the	
		Commission shall continue to determine	
16.		the tariff based on Capital Cost, the debt	
		and equity as approved by the Commission	
		as on Date of Commercial Operation of the	
		generation project shall be maintained at	
		the same level throughout the life of the	

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No.	Regulations 2020	PPA, except for normative repayment of loan and addition/reduction in debt and equity pertaining to Additional Capitalisation/ decapitalisation in accordance with provision of these Regulations.	
17.	Principal Regulation 59 - Late Payment Surcharge 59. Late payment surcharge: In case the payment of any bill for charges payable under these regulations is delayed by a beneficiary or long term customers as the case may be, beyond a period of 45 days from the date of presentation of bills, a late payment surcharge at the rate of 1.50% per month shall be levied by the generating company or the transmission licensee, as the case may be.	 The existing clause under regulation 59 may be numbered (1) and a new clause (2) may be added as follows: (2) The payment appropriation priority of receivables shall be as follows: Any amount received shall be first adjusted against Outstanding Late Payment Surcharge. Balance Amount if any shall be adjusted against Past Arrears if any. Balance Amount if any shall be adjusted against Current Months Dues. 	 Lot of emphasis is given by MOP to inculcate payment discipline among the Discoms. The MoP has already issued orders with regard to recovery of LPS and establishment of Payment Security Mechanism as specified in the PPA. There is potential scope in the computation of LPS unless the payment priority is specified in the regulations. It is also necessary to consider a graded LPS rate and progressively increasing penal rates based on ageing of receivables should be specified, for bringing more discipline in the payment pattern of Discoms. This concept is already adopted by various State Commissions for penalizing the defaulting consumers and benefit of this graded LPS rate is being availed by Discoms and same benefit need to be passed through to the generating companies also.