SI.	Regulation	Present Regulation	Proposed Amendment	Comments of NHPC
No.	No.			
1.	11(1) and	11(1) Short Term Open Access Rate	10. Amendment to Regulation 11 of	In the present regulation, transmission
	11(5)	(in paise/kWh) shall be published for	the Principal Regulations	charges for short term open access are
		each billing month by the	(2) Clause (1) of Regulation 11 of the	levied in proportion to the transmission
		Implementing Agency which shall be	Principal Regulations shall be	charges for long term and medium term
		calculated State-wise as under:	substituted as under:	open access. Further, there is no payment
		Transmission charges of the State for	"(1) T-GNA Rate (in Rs./MW/block)	of transmission charges for STOA, if the
		the billing month (in rupees) / (7200 X	shall be published for each billing	distribution licensee or trading licensee has
		the quantum, in MW, of Long Term	month by the Implementing Agency	LTOA or MTOA of such capacity.
		Access plus Medium Term Open	which shall be calculated State-wise as	However, in the proposed regulation,
		Access of the State for the	under:	Hon'ble CERC has levied a penalty of 10%
		corresponding billing period)	Transmission charges for GNA for	for transmission of electricity through T-
			entities located in the State, for the	GNA and transmission charges has been
		11(5) No transmission charges for	billing month, under first bill (in	levied on distribution licensee even if they
		Short Term Open Access for inter-	rupees) X 1.10 / (number of days in a	have spare capacity under GNA.
		State transmission system, shall be	month X 96 X GNA quantum, in MW,	In view of NHPC, the approach under
		payable by a distribution licensee	for all such entities located in the State	existing regulation is a more balance
		which has Long Term Access or	considered for billing, for the	approach as it promotes trading of
		Medium Term Open Access or both,	corresponding billing period.)"	electricity through power exchange,

		or by a trading licensee acting on	(5) Clause (4) and Clause (5) of	further, a distribution licensee or power
		behalf of such distribution licensee:	Regulation 11 of the Principal	trading licensee does not have to pay
		Provided that other charges or fees as	Regulations shall be deleted.	transmission charges for T-GNA, if they
		per Open Access Regulations, 2008		have spare GNA for which they are already
		and the Transmission Deviation		paying transmission charges.
		charges, if any, as per these		Therefore, Hon'ble Commission is
		regulations shall be payable.		requested to keep the provisions of existing
				regulation.
2.	12(1)(a)	For a generating station, net metered	Sub-clauses (a), (b),and (c) of Clause	As per Central Electricity Regulatory
		ex-bus injection, in a time block in	(1) of Regulation 12 of the Principal	Commission (Indian Electricity Grid
		excess of the sum of Long Term	Regulations shall be substituted as	Code), regulations 2010 & its subsequent
		Access, Medium Term Open Access	under:	amendments, (clause 5.2.f. System Security
		and Short Term Open Access:	"(a) For a generating station, net	Aspects), Hydro units of 25 MW and
		Provided that for a hydro-generating	metered ex-bus injection, in a time	above shall have the capability of
		station, overload capacity of 10%	block in excess of GNA:	instantaneous picking upto 110 % of
		during peak season shall be taken into	Provided that for a hydro-generating	their MCR (Maximum Continuous
		account.	station, schedules for overload	Rating), when frequency falls suddenly.
			capacity of 10% during peak season	Moreover, as per order issued by NRLDC
		,	shall not be charged under	vide their letter no NRLDC/SO-117/721
			transmission deviation.	dated 08/05/2018 during lean season/less

inflow period, RLDCs shall not schedule the generating stations beyond normative ex-bus generation (Installed Capacity minus normative Auxiliary Consumption) corresponding to 100% of the Installed capacity of the generating station. That means during lean season/less inflow period, there would be margin available to the RLDC, especially in peak period, from Ex-bus installed capacity up to 110% of the MCR of the generating stations or unit thereof, for getting primary response, when frequency falls suddenly in the Grid. Accordingly, to adhere the above regulations, Hydro power plants bound to respond in balancing the grid to increase/decrease their generation based on frequency variation. The power plants are being operated over and above its RLDC schedule as per

requirement of grid to fulfil requirement of ancillary services in terms of primary response. As per the provision, of proposed regulations, the generator has to pay the Regional Transmission Deviation charges (RTDA) for over injection, if any, for giving the primary response which is not justified. Further, as per CERC order dated 28th of August, 2019 on "Automatic Generation Control (AGC) implementation in India", the Automatic Generation Control System has been implemented on all new thermal ISGS stations with installed capacity of 200 MW and above and hydro stations having capacity exceeding 25 MW excluding the Run-of-River Hydro Projects irrespective of size of the generating station and whose tariff is determined or adopted by CERC. Accordingly, the AGC has been

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implemented to NHPC's eligible Power Stations and the operation through AGC is being done by NLDC as and when required to the grid. In compliance to the provisions of AGC, a generator is to operate upto its over load capacity (110% of IC) and the same may be continued upto 15 minutes. Sometimes it is experienced that the SRAS signal is received continuously 2-3-time blocks, resulting generators are liable to pay the Regional Transmission Deviation Charges which needs to be reviewed. It will be pertinent to mention that in the draft CERC Sharing of ISTS Charges Regulations, 2019, Hon'ble Commission has considered this rationale as no transmission deviation charges were proposed to be levied on hydro generating station upto their overload capacity as

				evident from Regulation 13(2)(c)(iv) of draft regulation  "iv For hydro-generating stations, the transmission deviation shall be calculated after considering overload capacity of 10% over quantum of Long Term Access and Medium Term Open Access."  In view of above, it is proposed to modify the proviso of 12(1)(a) as under:  "Provided that for a hydro-generating station, schedules for overload capacity of 10% shall not be charged under transmission deviation."
2.	12(2)	Transmission Deviation Rate in	Clause (2) of Regulation 12 of the	In the present regulation, a penalty of 5%
		Rs./MW, for a State or any other DIC located in the State, for a time block during a billing month shall be computed as under:	Principal Regulations shall be substituted as under:  "(2) Transmission Deviation Rate in Rs./MW, for a State or any other DIC	the proposed regulation, the penalty for transmission deviation has been increased
		1.05 X (transmission charges of the	located in the State, for a time block	Ministry of Power has notified Electricity

State for the billing month in Rs.)/
(quantum in MW of Long Term
Access plus Medium Term Open
Access of the State for the
corresponding billing period X 2880)

during a billing month shall be computed as under:

1.35 X (transmission charges for GNA of entities located in the State, under first bill for the billing month in Rs.)/ (GNA quantum in MW of such entities located in the State, considered for billing, for the corresponding billing period X number of days in a month X 96)

(Transmission System Planning, Development and Recovery of Inter-State Transmission Charges) Rules, 2021 dated 01.10.2021. In these Rules under rule 5, Ministry of Power has laid down some guidelines for recovery of ISTS charges. In sub-rule 5 of Rule 5 of these rules, following has been mentioned:

"(5) The monthly transmission charges shall be paid by the Designated Inter-state Customers for the General Network Access capacity sanctioned for them or drawal or injections as the case maybe, whichever is higher and all drawals or injections within the sanctioned capacity shall be at normal rate and excess drawal or injection over the capacity sanctioned shall be charged at rates, which are at least 25% higher, as determined by the Central Commission".

Thus, as per above provisions rates for

				transmission deviation has to be at least
				25% higher.
				Generally, Transmission Deviation for a
				hydro generating station is beyond its
				control as the deviation in lean season can
				be a result of grid support due to Governor
				response.
				In view of above, Hon'ble Commission is
				requested not to levy penalty in case of
				hydrogenating station up to 110% of its
	*			capacity even during lean season as
				proposed for peak season or kindly
				restrict the penalty to minimum of 25%.
3.	13(1)	(1) No transmission charges and losses	Amendment to Regulation 13 of the	In the existing regulation, transmission
		for the use of ISTS shall be payable	Principal Regulations:	charges and losses for the use of ISTS are
		for:	(1) Clauses (1) and (2) of Regulation	not being levied for solar and wind projects
		(a) generation based on solar power	13 of the Principal Regulations shall	which satisfied some qualifying criteria. In
		resource for the useful life of the	be deleted.	the proposed amendment, the clause has
		projects commissioned during the		been deleted, which means that the waiver
		period from 1.7.2011 to 30.6.2017.		of ISTS charges for these projects is no

(b) generation based on solar or wind	longer applicable.
power resources for a period of 25	Ministry of Power vide its order dated 23 <sup>rd</sup>
years from the date of commercial	November 2021 has waived ISTS charges
operation, fulfilling the following	for electricity generated through solar and
conditions:	wind sources of energy and for BSES and
()	Pump Storage plants which meet 51% of
(c) generation based on solar or wind	annual charging or pumping requirement
power resources, for a period of 25	through solar and wind commissioned till
years from the date of commercial	30.06.2025. Further, Projects expected to
operation, fulfilling the following	complete after 30.06.2025, a projection of
conditions:	waiver of ISTS charges has been provided.
()	The waiver of transmission losses is only
	applicable for projects whose bidding was
	completed by 15.01.2021.
	In view of above, Hon'ble Commission is
	requested to kindly keep the provisions
	of Clause 13(1) of existing regulations
	with modification as per MOP order
	dated 23.11.2021.

Where COD of a generating station or 13(3) unit(s) thereof is delayed and the Associated Transmission System has achieved COD, which is not earlier than its SCOD, the generating station Transmission shall Yearly Associated Charges the Transmission System corresponding to Long Term Access granted for the generating station or unit(s) thereof, which have not achieved COD: Provided that Yearly Transmission Charges in respect of Associated Transmission System shall be included for determination of transmission

Provided that Yearly Transmission Charges in respect of Associated Transmission System shall be included for determination of transmission charges of DICs in accordance with Regulations 5 to 8 of these regulations upon the generating station or unit(s) thereof achieving COD

Clause (3) of Regulation 13 of the Principal Regulations shall be substituted as under:

"(3) Where COD of a Connectivity grantee is delayed from start date of Connectivity in terms of GNA Regulations, and the Associated Transmission System has achieved COD, which is not earlier than such start date of Connectivity, the Connectivity grantee shall pay Yearly Transmission Charges for the Transmission Associated System corresponding Connectivity capacity which have not achieved COD:

Provided that Yearly Transmission
Charges in respect of Associated
Transmission System corresponding to
the Connectivity capacity which have

As per existing regulation and proposed Regulation, if COD of the generating station is delayed and the associated transmission system has achieved COD, the generating station is supposed to make payment of Yearly Transmission Charges (YTC) (corresponding to the capacity of generating station not declared under COD) as compensation. In this regard, NHPC requests the Hon'ble Commission that the following aspects need to be suitably incorporated in the proposed Regulations: Prior availability of transmission system minimum for a period of 30-45 days prior to COD of the first generating unit of a hydro generating station is essentially required for testing & commissioning of hydro generating units / station. There are specific requirements under Regulation 6.3A of IEGC for trial operation of a

11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The contract of the contract o
achieved COD shall be included for	generating unit. Therefore, transmission
determination of transmission charges	system (grid voltage) availability shall
of DICs in accordance with	always be proceeding to COD of
Regulations 5 to 8 of these	generating units. The generating company
regulations."	and transmission licensee shall endeavour
	to commission the generating units / station
	and the transmission system in a co-
	ordinated manner by catering the above
	aspect, and the same needs to be ensured
	through appropriate Implementation
	Agreement. During the testing &
1.03	commissioning period and till declaration
	of COD of first unit of Power Station,
	hydro generating stations should be
	excluded from the purview of payment of
	any penalty by way of 'Yearly
	Transmission Charges'.
	NHPC has submitted the above comments
	even during formulation of Sharing of ISTS
	Charges Regulations, 2022. Hon'ble

in a billing month, shall be reimbursed to the DICs in proportion to their share in the first bill in the following billing month.

after COD or (c) for REGS drawing power during non-generation hours or (d) injecting infirm power, through ISTS, shall pay transmission charges for injection or drawl beyond its T-GNA, at the rate of Transmission Deviation Rate for the State in which they are located:

Provided that the amount so received in a billing month, shall be reimbursed to the DICs in proportion to their share in the first bill in the following billing month."

requirement of generating station as per Grid Code.

Further, as per existing regulation and the proposed amendment a generating station is already paying the transmission charges for the capacity which has not been declared under COD as per Regulation 13(3), 13(7) and 13(9) of extant regulations i.e. during the period of injection of infirm power. Thus, levy of transmission deviation charges shall result into payment of double charges for same transmission line.

In view of above, it is proposed that no transmission deviation charges should be applicable for infirm power.

Further, it has also been proposed in the draft amendment that transmission deviation charges shall also be levied for drawing power during shutdown after

				Commission in its SoR has discussed this
				point, however no relief has been provided
				to generator. It is pertinent to mention that
				achieving of COD of power station at the
			17	same date when the transmission lines has
			9="	achieved COD is practically impossible
				and therefore a generator is being penalized
				for not performing a particular task which
				is not technically feasible. Therefore,
				Hon'ble Commission is once again prayed
				to review the provisions of Regulation
				13(3) and similarly review the provisions
				of Regulation 13(7) and 13(9)
5.	13(10)	Generating stations drawing start-up	Clause (10) of Regulation 13 of the	Infirm Power is the power injected during
		power from ISTS shall pay	Principal Regulations shall be	testing and commissioning of a Generating
		transmission charges at the rate of	substituted as under:	Station and during performance of trial
		Transmission Deviation Rate for the	"(10) Regional entity Generating	operation of the generating station before
		State in which they are located:	stations (a) drawing start-up power or	COD of the generating station. Thus,
		Provided that the amount so received	(b) drawing power during shutdown	injection of infirm power is the technical

COD. It is submitted that in a generating station multiples lines are evacuating power from the station, and there can be situation that during shutdown power is flowing from one line to another line through that station and such power flow can be recorded as consumption of power due to meter error being in opposite direction. This can be illustrated by an example: Suppose two lines Y1 and Y2 are emanating from a generating station and during shutdown 50 MW power is flowing from line Y1 to line Y2 through busbar of generating station and there is a meter error of +0.2% in SEM of Y1 and -0.2% in SEM of Y2. This will result in recording of high inflow in Line Y1 of 0.1 MW and less outflow from line Y2 of 0.1 MW, which will be then recorded as power

	consumption of 0.2 MW i.e. 200kW by the
	generating station and thus transmission
	deviation charges shall be levied in case of
	meter errors being recorded as
	consumption of power. Therefore, it is
	proposed that considering meter error, if
	2% of power flowing from the line is
	recorded as power consumption by the
	generating station, then transmission
	deviation charges shall not be levied.





Hearing

#### केन्द्रीय विद्युत विनियामक आयोग Central Electricity Regulatory Commission



#### Regulation Summary No. L-1/250/2019/CERC Cerc File Number 10/2022 Reference No. L-1/9/2022/CERC Regulation No. Generation Date Jul 8, 2022, 5:21 PM Regulation No. Reguation Type Amendment Regulation Tilte Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 Central Electricity Regulatory Subject Commission (Sharing of Inter-State Transmission Charges and Losses) (First Amendment) Regulations, 2022. **Date of Closure** Aug 19, 2022, 12:00 AM of E-Regulation Portal **Date of Public**

Regulation Details Regulation No.	Clause	Sub Clause	Added On	Description
1	0		Jul 8, 2022, 4:28 PM	Short Title and Commencement
2	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 2 of the Principal Regulations
3	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 3 of the Principal Regulations
4	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 5 of the Principal Regulations
5	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 6 of the Principal Regulations
6	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 7 of the Principal Regulations
7	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 8 of the Principal Regulations
8	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 9 of the Principal Regulations
9	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 10 of the Principal Regulations
10	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 11 of the Principal Regulations

Regulation No.	Clause	Sub Clause	Added On	Description
12	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 12 of the Principal Regulations:
13	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 13 of the Principal Regulations
14	0		Jul 8, 2022, 4:28 PM	.Amendment to Regulation 14 of the Principal Regulations
15	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 19 of the Principal Regulations:
16	0		Jul 8, 2022, 4:28 PM	.Amendment to Regulation 21 of the Principal Regulations:
17	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 23 of the Principal Regulations:
18	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 24 of the Principal Regulations:
19	0		Jul 8, 2022, 4:28 PM	Amendment to Regulation 25 of the Principal Regulations
20	0		Jul 8, 2022, 4:28 PM	Amendment in Annexure-1 of the Principal Regulations
1000	0		Jul 8, 2022, 4:28 PM	full comment

Cere Decement Details S.No	Document Type	Description	Document Mane	Uploaded On
1	Public Notice		PN- SISTCL-11062022.pdf	Jul 8, 2022, 4:30 PM
2	Draft Notification		Draft- SISTCL-11062022.pdf	Jul 8, 2022, 4:30 PM

Cerc Communication S.No.	Document Type	Description	Dogument Name	Uploaded On
1	Public Notice Extension	Extension of date for seeking comments/ suggestions on Draft Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) (First Amendment) Regulations, 202	PN8.pdf	Jul 18, 2022, 10:58 AM

Stakeholder Comments

Reference No.	Stakeholder Name	Added By	Comment On	Added On
SH/CO/294/2022	Maharashtra State Electricity Distribution Company Limited (MSEDCL)	Maharashtra State Electricity Distribution Company Limited (MSEDCL)	regulation no-1000	Aug 4, 2022, 5:44 PM
SH/CO/296/2022	NHPC LTD	NHPC LTD	regulation no-12	Aug 4, 2022, 7:00 PM
SH/CO/299/2022	NHPÇ LTD	NHPC LTD	regulation no-13	Aug 4, 2022, 7:04 PM
SH/CO/301/2022	NHPC LTD	NHPC LTD	regulation no-1000	Aug 4, 2022, 7:07 PM
SH/CO/273/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-2	Jul 11, 2022, 10:37 AM
SH/CO/274/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-2	Jul 11, 2022, 10:38 AM
SH/CO/275/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-9	Jul 11, 2022, 10:39 AM
SH/CO/276/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-9	Jul 11, 2022, 10:39 AM
SH/CO/277/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-12	Jul 11, 2022, 10:40 AM
SH/CO/282/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-17	Jul 11, 2022, 10:44 AM
SH/CO/283/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-1000	Jul 11, 2022, 10:45 AM
SH/CO/293/2022	Maharashtra State Electricity Distribution Company Limited (MSEDCL)	Maharashtra State Electricity Distribution Company Limited (MSEDCL)	regulation no-1	Aug 4, 2022, 5:43 PM
SH/CO/278/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-12	Jul 11, 2022, 10:40 AM
SH/CO/279/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-13	Jul 11, 2022, 10:41 AM
SH/CO/281/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-13	Jul 11, 2022, 10:42 AM
SH/CO/285/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-17	Jul 11, 2022, 10:46 AM
SH/CO/280/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-13	Jul 11, 2022, 10:41 AM
SH/CO/284/2022	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	SOUTHERN REGIONAL POWER COMMITTEE (SRPC)	regulation no-17	Jul 11, 2022, 10:46 AM
SH/CO/295/2022	NHPC LTD	NHPC LTD	regulation no-10	Aug 4, 2022, 6:59 PM

Reference No.	Stakeholder Name	Added By	Comment On	Added On
SH/CO/297/2022	NHPC LTD	NHPC LTD	regulation no-12	Aug 4, 2022, 7:01 PM
SH/CO/298/2022	NHPC LTD	NHPC LTD	regulation no-10	Aug 4, 2022, 7:02 PM
SH/CO/300/2022	NHPC LTD	NHPC LTD	regulation no-1000	Aug 4, 2022, 7:06 PM