

PUNJAB STATE TRANSMISSION CORPORATION LIMITED,

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CIN - U40109PB2010SGCO33814

Memo No. 94 /P-1/275

Dated: 3-5-21.

To

CAO/F&A, PSTCL, Patiala

Subject:

PSERC Directives in the Tariff Order for FY-2020-21: Quarter ending March-

2021

Reference:-

Your Office memo no: 806/FA/Comml.-23/Vol.10 Dated:- 05.04.2021

Enclosed please find herewith compliance status of PSERC directives Sr. Nos. 5.2(Unmanned Sub-stations), 5.3(Loading Status of PSTCL Transmission Lines and sub-stations) and 5.5(Reactive Compensation) as Annexure-A, B & C, respectively.

This issues with the approval of Director/Technical.

DA: As Above.

Sr.XEN/Planning-1,

PSTCL, Patiala.

CC:

1. Chief Engineer/TS, PSTCL, Patiala.

2. Sr.XEN(Tech. to Director/Tech., PSTCL, Patiala

3. Addl. SE/IT, PSTCL, Patiala along with copy of Annexure A, B and C - Soft copy mailed to your official email address. It is requested to upload the same to

PSTCL website.

Sr. No. 5.2 (Unmanned Sub-stations)

"Work of automation of five sub-stations i.e. 220kV Mohali-1, 220kV Mohali-2, 220kV Lalru, 220kV Dera Bassi & 220kV Kharar with 220kV Mohali-1 being control centre has been completed and one post of SSA from each of four slave sub-stations (220kV Mohali-2, 220kV Lalru, 220kV Dera Bassi & 220kV Kharar) has been surrendered by P&M organization. Apart from this one post of SSE(AE) at 220kV Mohali-2 has been made "vacant" and the incumbent SSE has been transferred to CO&C S/D, Ropar.

In addition to it, operational control of 400kV Dhuri has been shifted to 400kV Rajpura. Consequently, three posts of AE's on shift duty (out of four), two posts of AAE's on shift duty (out of four) & two posts of SSA's on shift duty(out of four) have been surrendered by P&M

Organization."

ANNEXURE -B

Sr. No. 5.3 (Loading Status of PSTCL Transmission lines and sub-stations)

4th Quarter (ending March- 2021)

Sr.		4th Quarter (ending March- 2021)							
No.	Circle	Name of Transmissic Line	0/- 111	as Remarks	Action by Planning				
			Parameters conductors i 45° C ambie temperature a 75°C conduct	.e. nt and or					
A) Lo	oading statu	s of PSTCL Trans	temperatur	e					
1.	Patiala		temperature of PSTCL Transmission Lines						
2.	Jalandhar			NIL					
3.	Ludhiana	njana 2201-v.a.o.							
	4	220kV G 01 - Rajpura Ckt 01	620 A at 24°C Ambient temperature (110.71%)	Existing	within permissible thermal limit corresponding to ambient				
		220kV G 01 -			temperature (i.e. 745.88 A at 24°C). Also, replacement of existing conductor of 220kV Gobindgarh-400kV Rajpura (DC with HTLS conductor of suitable capacity is already planned in MYT 2020-23.				
		Rajpura Ckt 02	570 A at 27°C Ambient temperature (101.79%)	Existing	High loading is within permissible thermal limit corresponding to ambient temperature (i.e. 726.4631 A at 27°C). Also, replacement of existing conductor of 220kV Gobindgarh-400kV Rajpura (DC with HTLS conductor of suitable capacity is already planned in MYT 2020-23.already planned				
	22	0kV Sahnewal - PGCIL	662 A at 21°C Ambient	Temporary	in MYT 2020-23. High loading is				
		\$	temperature (104.91%)	As Telephonically confirmed from	within permissible thermal limit corresponding to				

And the Party of Street Land	The control of the Committee of the control of the	-			
				220kV Sahnewal	ambient
				control room	temperature (i.e.
المتأرات				high loading is	866.32 A at 21°C)./
				due to load of	No Remedial
~			A + V = 1.5	66kV Singla	Action Required.
	and the same of th			Cycle which was	
				running from	
			, -	220kV Kohara	
				shifted to 66kV	
				Kanganwal -1 &	
				Kanganwal - 2	
				running from	
				the 220kV Sub-	
				station	
		2201-11 20011		Sahnewal.	
		220kV PGCIL -	670 A at 24°C	Temporary	High loading is
		Lalton Ckt. 3	Ambient	As	within permissible
			temperature	Telephonically	thermal limit
			(106.18%)	confirmed from	corresponding to
				the 220kV	ambient
				Lalton Kalan	temperature (i.e.
				control room	844.48 A at 24°C).
				high loading is	No Remedial
				due to permit	Action Required.
				issued on 220kV	
				PGCIL -Lalton	
		220kV Dhandari	586 A at 15°C	Ckt. 2.	771 1 1 1
		-PGCIL	Ambient	Temporary	High loading is
		-r dcit	temperature	As Telephonically	within permissible thermal limit
			(104.64%)	confirmed from	corresponding to
			(104.0470)	the 220kV	ambient
				Dhandari Kalan	temperature (i.e.
				-1 control room	825.0384 A at
				high loading is	15°C).
1				due to shut	No Remedial
ĺ				down on 220kV	Action Required.
1				Dhandari Kalan-	
4				Lalton -Kalan	
				line	
		220kV Ajitwal -	675 A at 33°C	Temporary	High loading is
		PGCIL Moga	Ambient	As intimated by	within permissible
			temperature	SSE Ajitwal on	thermal limit
			(120.54%)	dated	corresponding to
				20.4.2021,	ambient
	ĺ			220kV Ajitwal-	temperature (i.e.
				Himatpura Line	688.01 A at 33°C).
				was out of	No Remedial
				Circuit at that	Action Required.
				instant. As	
			1,11	Telephonically	
			_	confirmed by	
			- 9	ASE/P&OS,	
			. 51	office of P&M,	
			, i	Ludhiana.	
				Ajitwal-	1 19
		2 1 ₁		Himatpura line	
			100	will be charged	
		The second second	NS [12]	after carrying	

					out end to end testing of said line, thereby providing relief to 220kV PGCIL Moga -Ajitwal Line.	
4.	Bathinda	NIL				
5.	Amritsar	NIL				
В)	Loading status of Power Transformers of PSTCL Sub-stations		132	ll 400/220kV, 220/132kV & 220/66kV as well as 132/66kV, 32/11kV & 66/11kV Power T/Fs of PSTCL Substations remained elow 100% as per P&M data.		

Sr. No. 5.5 (Reactive Compensation)

System Study for Capacitor requirement in NR for the year 2019-20.

It is submitted that the CPRI has submitted their report dated 16.10.2020 regarding Capacitor Requirement for Northern Region. In its report the CPRI has recommended the installation of 136.58 MVAr capacitor banks at 66kV & 220kV Bus-Bar of the three nos. sub-stations namely 220kV S/Stn. Kohara, 220kV S/Stn. Ghulal and 220kV S/Stn. Gaunsgarh.

However, it has been observed by PSTCL that for study purpose, load of Punjab for the year 2019-20 has been taken as 11415MW, whereas the actual peak load of Punjab in the year 2018-19 and 2019-20 was 12638MW and 13690MW respectively and the load of Punjab is expected to increase further in 2021-22. PSTCL has taken up the matter with NRPC through SLDC on dated 13.04.2021. PSTCL is of the view point that there is no point in discussion on capacitor requirement based on the 2018-19 loading conditions. Now, ASE/OP SLDC, Patiala has intimated that NRPC has scheduled a meeting to be held in the next week of the members of the sub group constituted to finalize the CPRI report.

Further, PSTCL has started the installation of available 132kV Capacitor Banks at the various S/Stns. of PSTCL.