



PUNJAB STATE TRANSMISSION CORPORATION LIMITED
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To

CAO/F &A,
PSTCL, Patiala

Memo No.: 424 /P-1/275


Dated: 28.08.2023

Subject: PSERC Directives in the Tariff Order for FY 2023-24: Quarter ending June-2023.

Enclosed please find herewith compliance status of PSERC directive Sr. No. 5.2 (Loading Status of PSTCL Transmission Lines and Sub-station) in the Tariff Order for FY 2023-24 for the quarter ending June-2023 as Annexure-A. Annexure A shall be uploaded on PSTCL website www.pstcl.org.

This issues with the approval of worthy Director/Technical, PSTCL.

DA: As Above


Dy. CE/Planning,
PSTCL, Patiala.

CC: -

425/26
28.08.2023

1. Chief Engineer/TS, PSTCL, Patiala
2. ASE/Tech. to Director/Tech, PSTCL Patiala

PSERC Directive Sr. No. 5.2 (Loading Status of PSTCL Transmission lines and Sub-Stations),

1st Quarter (ending June-2023).

1st Quarter (ending June-2023)

Sr no.	P&M Circle	Name of transmission line	% loading as compared with the standard design parameters of conductors i.e., 45°C Ambient temperature and 75°C Conductor temperature.	Remarks of P&M Organization	Proposal /remedial action by planning
A) Loading status of PSTCL Transmission Lines					
1.	Amritsar	220kV Wadala Granthian-Fatehgarh Churian	683A at 35°C Ambient temperature (121.96%)	Due to collapsing of 92 No. Tower of Double Circuit 220kv Khassa-Chogawan this line overloaded	Temporary due to collapsing of towers in D/C 220kV Khassa-Chogawan line. However, rearrangement of 220kV circuits in Civil lines, Khassa, Chogawan region has also been included in MYT 2023-26 to reduce the loadings.
		220kV Wadala Granthian-Kotli surat mali	561 A at 35°C Ambient temperature (100.18%)	Due to collapsing of 92 No. Tower of Double Circuit 220kv Khassa-Chogawan this line overloaded	
		220kV Chogawan-Khassa	685 A at 37°C Ambient temperature (122.32%)	Temporary due to collapse of Tower No 92. 220kv Civil Line Khassa Was under Breakdown and whole load was going through 220 kV Khassa Chogawan line through ERS towers	
		132kV Sarna-Gurdaspur	336 A at 35°C Ambient	Line is overloaded and	

			temperature (105%)	is being operated by opening 132 kV Dwl-Batala D/C link, still loading is 104.80%	advent of 220 kV Gurdaspur, already planned.
		132kV Mall Mandi-G. T. Road, Amritsar	394 A at 40°C Ambient temperature (103.41%)	At 220kv S/S Naraingarh 160MVA P T/F was under breakdown due to which load of 66kv hall gate & 66kv Islamabad was put on 132kv GT road Amritsar via 66kv Golden temple	The loading was temporary due to shifting of load on 132kV GT Road. However, strengthening of Verka-Mall Mandi Amritsar region has been included in MYT 2023-26, which will reduce the higher loading.
		132kV Patti-TaraTaran	504 A at 40°C Ambient temperature (132.28%)	Temporary due to Breakdown of 220kV Butari-Verpal line	Temporary loading due to contingent conditions
		132kV Butari-Tangra	372 A at 40°C Ambient temperature (116.25%)	Temporary 132kV substation Verka drawing load from 132kV Jandiala via Tangra-Butari	Temporary loading. However, 220kV Jandiala Guru will reduce the higher loading of this line.
2.	Bathinda	220kV Mukatsar-Katorewala Ckt(From 400kV Mukatsar Sahib)	596.91 A at 38°C Ambient temperature (107%)	Existing	Loading will reduce after advent of 220 kV Bhalaiana, already planned in the MYT 2023 – 26. Also, 220 kV Abohar-Malout line will reduce the loading.
3.	Ludhiana	220kV Badhani-PGCIL Moga	565 A at 30°C Ambient temperature (100.89%)	Temporary	Temporary loading due to contingent conditions
4.	Patiala	400kV Rajpura – 220kV Lalru Ckt-1	606A at 42°C Ambient temperature (108.21%)	Paddy Load	Temporary loading due to contingent conditions

	400kV Rajpura – 220kV Lalru Ckt-2	607 A at 42°C Ambient temperature (108.39%)	Paddy Load	
	220kV Faggan majra-Bahadurgarh ckt-1	610 A at 35°C Ambient temperature (108.93%)	Paddy Load	Loading will reduce after implementation of already approved rearrangement of transmission lines in Rajpura region, already planned.
	220 kV Nalagarh-Mohali-1-Ckt-1	672 A at 28°C Ambient temperature (120%)	Paddy Load	Loading will reduce after implementation of 220 kV D/C between 400 kV Panchkula and 220 kV Dera Bassi, already planned in the MYT 2023-26.
	220 kV Nalagarh-Mohali-1-Ckt-2	672 A at 28°C Ambient temperature (120%)	Paddy Load	
	220 kV Derabassi-lalru	601 A at 40°C Ambient temperature (107.32%)	Paddy Load	Loading will reduce after LILO of 220 KV Mohali-1-Lalru line at 220 KV Mohali-2, already planned. Also, the advent of 220kV Mubarikpur will relieve the situation.
	220kV Patran-banvala Ckt-1	591 A at 33°C Ambient temperature (105.54%)	Paddy Load	Under Study.
	220kV Patran-banvala Ckt-2	591 A at 33°C Ambient temperature (105.54%)	Paddy Load	
	220kV Patran-Sunam	645 A at 31°C Ambient temperature (115.18%)	Paddy Load	Temporary loading due to contingent conditions

		220kV Sunam-Bhalwan-1	596 A at 35°C Ambient temperature (106.43%)	Paddy Load	Loading will reduce after LILO of 220kV Mansa-Sunam at 400kV S/S Patran.	
		220kV Sunam-Bhalwan-1	596 A at 35°C Ambient temperature (106.43%)	Paddy Load		
		220kV Sunam-mansa Ckt	570A at 34°C Ambient temperature (101.79%)	Paddy Load		This 220kV Sunam-Mansa line will be LILOed at 400kV S/S Patran.
5.	Jalandhar	Maximum Demand of Power Transformers For the 1st quarter (April 2023 to June 2023) in respect of P&M Circle Jalandhar.				
		220kV Science City 100 MVA, 220/132kV P/T/F T-2	103.64MVA at 67°C Ambient temperature (103.64%)	Due to paddy Season	Under study.	
		Maximum Demand of Transmission Lines For the 1st quarter (April 2023 to June 2023) in respect of P&M Circle Jalandhar.				
		132kV Hamirpur-Chohal	435 A at 35°C Ambient temperature (114.17%)	As per instructions of PC Patiala	Will be resolved upon shifting of some of 132 kV load onto 220 kV Hoshiarpur, already planned in the MYT 2023-26.	