



PUNJAB STATE TRANSMISSION CORPORATION LIMITED
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To

The Financial Advisor,
PSTCL, Patiala.

Memo No. 475 /P-1/275 Dated 14.8.18

Subject:- PSERC Directives in the Tariff Order for FY- 2018-19 – Ist Quarter (ending June 2018).

Enclosed please find herewith 'Loading status of PSTCL Transmission lines & Substations' for Ist Quarter i.e. ending June 2018 (Annexure-A).

This issues with the approval of Director/Technical.

DA : As above


SE/Planning & Communication,
PSTCL, Patiala.

476/79
14.08.18
CC:-

- 1) Chief Engineer /TS, PSTCL, Patiala - for information please.
- 2) Chief Engineer/P&M, PSTCL, Ludhiana - for information please.
- 3) Sr. Xen. To Director/Tech. PSTCL, Patiala - for information please.
- 4) Addl. SE/IT, PSTCL, Patiala along with the copy of Annexure-A (both hard copy as well as soft copy mailed to your official address) for uploading on web-site please.

Annexure- A

Sr. No.	P&M Circle	Name of Transmission-lines	% loading as compared with the standard design Parameters of Conductor i.e. 45°C ambient temp. and 75°C conductor temp.	Remarks	Remedial Action
A)	Loading status of PSTCL Trans. lines				
1.	Bathinda	132KV Baluana-Bathinda	395A at 35°C ambient temperature (103.95%)	Temporary overloading due to opening of 132KV link at Abohar end (Technical problem)	No remedial action required.
2.	Jalandhar	PGCIL Kartarpur-Kartarpur	730A at 38°C ambient temperature (130.30%)		i) Higher side loading shall be controlled after LILO of 2 nd ckt. PGCIL Jalandhar – 220KV S/s Kartarpur, the work of which is under execution. However, till the execution of this work, bus-splitting has been done to control higher side loading. ii) For further load growth, augmentation of existing conductor of both circuits i.e. 220 kV DC line from 400 kV Jalandhar to 220 kV Kartarpur with HTLS conductor has already been planned to give relief to line loading
		220KV Goraya-Jamsher	585A at 31°C ambient temperature (104.4%)	Temporary overloading due to higher side power drawl which has been caused due to lesser generation available at GGSSTP i.e. only 2 units were on	Adequate Generation to be insured by PSPCL at GGSSTP.
3	Ludhiana	220 KV G1-Rajpura Ckt.-1	620A at 34°C ambient temperature (110.71%)		
		220 KV G1-Rajpura Ckt.-2	620A at 41°C ambient temperature (110.71%)		

		220 KV RTP-Gaungarh	664A at 43°C ambient temperature (105.23%)	As per telephonic conversation, Temporary overloading due to excessive power drawl by S/s Kohara (more intake from GGSSTP end & Ghulal ckt. was off)	-do-
		220 KV PGCIL-Lalton Ckt.-1	578 A at 42°C ambient temperature (103.21%)	Temporary overloading due to excessive power drawl from 220KV S/s Humbran end	No remedial action required.
		220 KV Dhandari-PGCIL	650A at 40°C ambient temperature (116.07%)	Temporary overloading due to Dhandari - Lalton line open (off at Lalton end)	IInd ckt. for 220KV Dhandari Kalan-PGCIL line has been planned and this will give relief to line loading.
		220KV Lalton-Humbran	636A at 39°C ambient temperature (113.57%)	As per telephonic conversation with grid office, it was a temporary overloading due to fault at 220KV S/s Lalton end	No remedial action required.
		220 KV Ferozepur Rd.-Humbran	588A at 37°C ambient temperature (105%)	As per telephonic conversation, temporary overloading due to fault at 220KV S/s Humbran end	-do-
		220 KV Ajitwal-PGCIL Moga	566A at 41°C ambient temperature (101.07%)	Temporary overloading due to excessive power drawl by at 220KV S/s Jagraon end	-do-
4	Amritsar	132 KV Verpal-Mall Mandi ASR	95A at 44°C ambient temperature (103.95%)	As per telephonic discussion with concerned SSE, it was a temporary overloading due to ceremony /function at Golden temple	Augmentation of 0.2 sq inch conductor with HTLS conductor has already been planned to give relief to line loading.
		220 KV Patti-Chohla Sahib	663A at 31°C ambient temperature (105.07%)	As per telephonic discussion with concerned SSE, it was a typographical error, M.D. may be read as 363A	No remedial action required.
5	Patiala	220 KV bus Faggan Majra-Bahadurgarh	660A at 37°C ambient temperature (117.8%)	Temporary overloading due to excessive power drawl at 220KV S/s Rajpura end	Loading of this line is expected to come down after Completion/ Commissioning of 400 KV Rajpura- 220 KV Devigarh D/C link.
		220 KV Rajpura-Faggan Majra	737A at 35°C ambient temperature (131.6%)	Temporary overloading because 220 KV Bahadurgarh - Rajpura ckt. was off & power	-do-

				drawl by S/s Banur, Mohali was from 220KV S/s Rajpura end	
		220 KV Sunam-Bhalwan-Ckt.-1	570A at 46°C ambient temperature (101.78%)	Slight higher side loading seems to be of temporary nature & might be due to some breaker opening at 220K Mansa/Jhunir end	No remedial action -do-required.
		220 KV Sunam-Bhalwan-Ckt.-2	570A at 46°C ambient temperature (101.78%)		-do-
		132 KV Nakkian PS to Nakkian S/stn.	326A at 37°C ambient temperature (112.4%)	Temporary overloading because 132KV Nakkian -Nawashehar ckt. was off	-do-
B)	Loading status of PSTCL S/stns.	All the 220KV as well as 132KV Substations of PSTCL remain loaded below 100%			
	Note	<ol style="list-style-type: none"> 1) The standard current rating of Panther conductor at 45°C ambient temperature & 75°C conductor temperature is 381 A. 2) The standard current rating of Zebra conductor at 45°C ambient temperature & 75°C conductor temperature is 560 A. 3) The standard current rating of Moose conductor at 45°C ambient temperature & 75° C conductor temperature is 631 A. 			