

## 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
<b>December 2018</b>					
1	Ludhiana	220 KV G1- Rajpura Ckt.-1	570A (102%) at 15°C ambient temperature	Due to inadequate generation from GGSSTP end.	1. Replacement of existing conductor with HTLS conductor has been planned. 2. Additional 220kv link (DC on DC tower) between 400kv Rajpura- 220kv Bassi Pathana
2		220 KV G1- Rajpura Ckt.-2	-do-		
3		220 kv RTP Ghulal	665A (102%) at 17°C ambient temperature	--do-	This overloading was temporary. No overloading observed in subsequent quarters. No remedial action required

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
<b>A) Loading status of PSTCL Transmission lines</b>					
<b>ending September - 2019</b>					
1.	Bathinda	220KV Muktsar- Katorewala	611.03A at 31°C ambient temp. (109%)	Higher side loading during paddy season may be reduced with the commissioning of 220KV Malout-Abohar link	No remedial action required

2.	Jalandhar	220KV PGCIL Kartarpur-Kartarpur	575A at ambient temp. 32°C (102%)	Higher side loading corresponding to ambient temperature is within permissible limits	However, Replacement of conductor with HTLS conductor has already been planned
		132KV Mahilpur-Banga	398A at ambient temp. 32°C (105%)	Higher side loading due to high load intake by 132KV Banga	U/G of 132KV Banga to 220KV level has been planned as remedial measure
3	Ludhiana	220 KV PGCIL-Lalton Ckt.-1	578A at ambient temp. 40°C (103%)	Temporary higher side loading due to lesser generation available at GGSSTP i.e. only 2 units were ON. However loading shall be reduced as 220KV Ladowal is loaded properly.	No remedial action required
		220 KV PGCIL-Lalton Ckt.-2	585A at ambient temp. 40°C (140%)		Replacement of conductor with HTLS conductor has also been planned to give long time relief to line loading.
		220 KV PGCIL-Lalton Ckt.-3	755A at ambient temp. 38°C (119.6%)	Temporary higher side loading caused due to associated line tripping by tripping of 220kv Bus bar PT fuse failure.	No remedial action required.
		220 KV Lalton-Jagraon	578A at ambient temp. 40°C (103%)	As per telephonic discussion with concerned SSE & e-mail received, it was a typographical error, Actual M.D. may be read as 242A	No remedial action required
		220 KV Lalton - Humbran	694A at ambient temp. 38°C (124%)	Temporary higher side loading has been reduced with energization of Nakodar-Ladowal link. (energized on 08/19)	No remedial action required
		220 KV Lalton-Ferozpur Road	580A at ambient temp. 37°C (103%)	Temporary higher side loading has been reduced with energization of Nakodar -Ladhowal link. (energized on 08/19)	No remedial action required

		220 KV Doraha - PGCIL	651A at 32°C ambient temperature (116.25%)	Higher side loading due to high load intake by Sahnewal caused due to tripping at GGSSTP end	No remedial action required
		220 KV Moga-Kotkaror ckt-1	589A at ambient temp. 34°C (105%)	Temporary higher side loading due to shut down at Makhu (ICT problem)	No remedial action required
		220 KV Moga-Kotkaror ckt-2	589A at ambient temp. 34°C (105%)		
		220 KV Makhu-Botianwala	588 at ambient temp. 36°C (105%)	As per telephonic discussion with concerned SSE & e-mail received, it was a typographical error, Actual M.D. may be read as 336A	No remedial action required
4	Amritsar	220 KV Wadalagrathian-Fatehgarh Churian.	724A at ambient temp. 32°C (129%)	Temporary higher side loading due to shut down at Verpal	No remedial action required
		220 KV Wadalagrathian-Kotli Surat Mali.	585A at ambient temp. 32°C (104%)		No remedial action required
		132 KV Sarna-Gurdaspur	324A at ambient temp. 39°C (101%)	Overloading is due to increased demand of the area	New grid 220KV Gurdaspur has been identified for 2020-23 for controlling the overloading of this section
5	Patiala	220 KV Faggan Majra-Bahadurgarh	600A at ambient temp. 36°C (107%)	Higher side loading due to high load intake by 220KV Rajpura caused due to lesser generation available at GGSSTP end	No remedial action required
		220 KV Nalagarh-Mohali-ckt-1	597A at ambient temp. 36°C (107%)	Higher side loading due to shut down at Rajpura and fault in 220kv Mohali - Majra line	No remedial action required
		220 KV Nalagarh-Mohali-ckt-2	597A at ambient temp. 36°C (107%)		
		220 KV Sunam-Mansa-ckt	561A at ambient temp. 28°C (100%)	As per telephonic discussion with concerned SSE & e-mail received, it was a typographical error, Actual M.D. may be	No remedial action required

				read as 531A.	
		220KV Sunam-Bhalwan-Ckt.1	580A at ambient temp. 37°C (104%)	Slight higher side loading seems to be of temporary nature due to high load intake at 220K Jhunir end. However, it is within permissible limits corresponding to ambient temperature	No remedial action required
		220KV Sunam-Bhalwan-Ckt.2	580A at ambient temp. 37°C (104%)		
B)	<b>Loading status of PSTCL Substations</b>	All the 220KV as well as 132KV Substations of PSTCL remain loaded below 100%			
	<b>Note</b>	<ol style="list-style-type: none"> <li>1) The standard current rating of Panther conductor at 45°C ambient temperature &amp; 75°C conductor temperature is 381 A.</li> <li>2) The standard current rating of Zebra conductor at 45°C ambient temperature &amp; 75°C conductor temperature is 560 A.</li> <li>3) The standard current rating of Moose conductor at 45°C ambient temperature &amp; 75° C conductor temperature is 631 A.</li> </ol>			