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)	**Jalandhar**				
	1	220 KV Nakodar-Rehana Jatta.	560A (100%) at 37°C ambient temperature	Higher side loading is due to almost nil generation from BBMB end	Commissioning of 2nd ckt. will give relief
	2	132 KV Mahilpur-Banga	380A (100%) at 31°C ambient temperature	As per field's telephonic information, it was a temporary overloading caused due to supply given in one group (instead of 3-4 groups) as per prevailing practice.	No remedial action required
(2)	**Ludhiana**				
	1	220 KV G-1-Rajpura ckt.- 1	650A (116%) at 35°C ambient temperature	Due to inadequate generation from GGSSTP end.	Adequate generation to be ensured by PSPCL at GGSSTP
	2	220 KV G-1-Rajpura ckt.- 2	660A (118%) at 33°C ambient temperature	-do-	-do-
	3	220 KV RTP – GaunSgarh	678A (107%) at 37°C ambient temperature	-do-	-do-
	4	220 KV RTP – Ghulal	701A (111%) at 35°C ambient temperature	-do-	-do-
	5	220 KV Sahnewal – PGCIL Ludhiana	640A (101%) at 33°C ambient temperature	Temporary over loading caused due to shifting of some 66 KV load on 220 KV Sahnewal	No remedial action required. However, 400KV PGCIL Ludhiana-Sahnewal ckt. planned
	6	220 KV PGCIL – Lalton ckt 1	641A (114%) at 28°C ambient temperature		Both these ckts are being replaced with HTLS Conductor
	7	220 KV PGCIL – Lalton ckt 2	620A (110.7%) at 28°C ambient temperature		-do-
	8	220 KV PGCIL – Lalton ckt 3	695A (110%) at 30°C ambient temperature		This ckt. will be utilized in making 400KV PGCIL Ludhiana-Sahnewal as double ckt.
	9	220 KV Dhandari-PGCIL Ludhiana	730A (130%) at 33°C ambient temperature	Due to lesser / nil generation from BBMB (Bhakra) end	2nd Ckt. for 220KV Dhandari Kalan-PGCIL line has been planned & will give

					relief to loading
	10	220 KV Lalton-Hambran line	620A (110.7%) at 30°C ambient temperature	Due to lesser / nil generation from GGSSTP & BBMB (Bhakra) end	Adequate generation to be ensured by PSPCL at GGSSTP
	11	220 KV PGCIL Ldh. -Pakhowal	572A (102%) at 30°C ambient temperature	Temporary over loading , because whole of the load of Pakhowal and Mehalkalan was catered from PGCIL Malerkotla end via 220 KV Sandhaur -Pakhowal SC lines.	No remedial action required
	12	220 KV Pakhowal – Sandhour	578A (103%) at 33°C ambient temperature	Temporary over loading , because whole of the load of Pakhowal and Mehalkalan was catered from PGCIL Malerkotla end via 220 KV Sandhaur -Pakhowal SC lines.	No remedial action required
	13	220 KV Ajitwal-PGCIL Moga	677A (120.9%) at 37°C ambient temperature	Temporary over loading caused due to lesser / nil generation from GGSSTP end	No remedial action required.
	14	220 KV Himatpura – Jagroan	566A (101%) at 32°C ambient temperature	As per telephonic conversation with SSE Jagroan, it was a typographical error, MD may be read as 558 A , which is within limits of thermal rating of conductor.	No remedial action required
(3)	**Patiala**				
	1	220 KV Phagan Majra - Bahadurgarh	670A (119.6%) at 37°C ambient temperature	Whole of the load 220 KV Devigarh is also being fed through Bahadurgarh, which lead to overloading of Phagan Majra-Bhadurgarh link	Loading of line shall come down after commissioning of 400 KV Rajpura – Devigarh link
	2	220KV Rajpura-Phaganmajra	630A (112.5%) at 35°C ambient temperature	Temporary over loading caused due to opening of Phagan Majra-Bahadurgarh link.	No remedial action required
	3	220 KV Nalagarh/Mohali 1 ckt 1	622A (111%) at 28°C ambient temperature	Due to lesser generation from GGSSTP end, excessive Power drawl of 220 KV Mohali, Kharar,& Banur was from Nalagarh – Mohali-I DC line.	Adequate generation to be ensured by PSPCL at GGSSTP
	4	220 KV Naraingarh Mohali 1 ckt- 2	622A (111%) at 28° C ambient temperature	Due to lesser generation from GGSSTP end, excessive Power drawl of 220 KV Mohali, Kharar,& Banur was from Nalagarh – Mohali-I DC line.	Adequate generation to be ensured by PSPCL at GGSSTP
	5	220 KV Sunam – Bhalwan 1	568A (101%) at 36°C ambient temperature	Marginal higher side loading might be due to excessive drawl from	No remedial action required

				Malerkotla end.	
	6	220 KV Sunam – Bhalwan 2	568A (101%) at 36°C ambient temperature	Marginal higher side loading might be due to excessive drawl from Malerkotla end.	No remedial action required
(4)	**Amritsar**				
	1	220 KV Verparl – Patti	580A (103.5%) at 30°C ambient temperature	Temporary overloading caused due to tripping of one unit of Goindwal Sahib and consequent increase in load of Patti.	No remedial action required
	2	220 KV Verpal – Rashiana	560 A (100%) at 30°C ambient temperature	- do-	No remedial action required
(5)	**Bathinda**	400KV Mukatsar – Katorewala ckt.	611 A (109%) at 30°C ambient temperature	Higher side loading of temporary nature might be due to opening of 220KV Mukatsar – Katorewala link	No remedial action required
B)	**Loading status of PSTCL Substations**	All the 220KV as well as 132KV Substations of PSTCL remain loaded below 100%			
	Note :	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.			