

National Load Despatch Centre
Import of Punjab Transfer Capability for November 2022

Issue Date: 23rd November 2022

Issue Time: 2240 Hrs

Revision No. 3

Date	Time Period in IST (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
1st Nov 2022 to 6th Nov 2022	00-08	9000	500	8500	4860	3640		
	08-18	9000	500	8500	4860	3640		
	18-24	9000	500	8500	4860	3640		
7th Nov 2022	00-08	9400	500	8900	4860	4040		
	08-18	9400	500	8900	4860	4040		
	18-24	9400	500	8900	4860	4040		
8th Nov 2022 to 9th Nov 2022	00-08	9000	500	8500	4860	3640		
	08-18	9000	500	8500	4860	3640		
	18-24	9000	500	8500	4860	3640		
10th Nov 2022 to 11th Nov 2022	00-08	9400	500	8900	4860	4040		
	08-18	9400	500	8900	4860	4040		
	18-24	9400	500	8900	4860	4040		
12th Nov 2022 to 24th Nov 2022	00-08	9000	500	8500	4860	3640		
	08-18	9000	500	8500	4860	3640		
	18-24	9000	500	8500	4860	3640		
25th Nov 2022	00-08	9400	500	8900	4860	4040	400	Due to forced outage of Talwandi Sabo Unit 1
	08-18	9400	500	8900	4860	4040	400	
	18-24	9400	500	8900	4860	4040	400	
26th Nov 2022 to 30th Nov 2022	00-08	9000	500	8500	4860	3640		
	08-18	9000	500	8500	4860	3640		
	18-24	9000	500	8500	4860	3640		
Limiting Constraints		1. N-1 contingency of 400/220KV ICTs at Nakodar, Ludhiana. 2. Loading close to N-1 contingency limits of 400/220kV Patran, Malerkotla, Moga and Patiala ICTs 3. 220 kV underlying network at Ludhiana and Amritsar 4. Punjab SLDC to ensure minimum internal generation above 5000MW for this ATC/TTC. 5. ATC/TTC limits may be reviewed if Punjab SLDC is not able to manage loading of 400/220kV ICTs below N-1 contingency limit						

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Revision No	Date of Revision	Period of Revision	Reason for Revision
1	6th Nov 2022	7th Nov 2022	Due to tripping of Talwandi abo Unit 2
2	9th Nov 2022	10th Nov 2022 to 11th Nov 2022	Due to tripping of Talwandi abo Unit 3
3	23rd Nov 2022	25th Nov 2022	Due to forced outage of Talwandi Sabo Unit 1

Punjab critical ICTs			
Sl No.	Name of Substation	ICTs Capacity (MVA)	N-1 Loading limit(MW)
1	Rajpura	3*500	1150
2	Nakodar	2*315	450
3	Moga	2*500+1*250+1*315	1185
4	Ludhiana	2*315+2*500	1265
5	Amritsar	2*315+2*500	1220
6	Patiala	2*315+1*500	855
7	Patran	2*500	615
8	Dhuri	3*500	1090
<i>Loading of these ICTs should be kept within N-1 loading limit as specified above, loading of</i>			

Punjab critical lines			
SI No.	Line	N-1 loading limit (MW)	Remarks
1	220kV Patran(PG)-Patran(PSTCL) ckt-1	115	Presently 220kV Patran(PSTCL) is being operated by opening 220kV Patran-Sunam and 220kV Patran-Bangan and entire load of 220kV Patran is being radially fed through 220kV Patran(PG)-Patran(PSTCL) D/C line, if loading stays above 115MW in each ckt then tripping of one line would lead to entire load loss at 66kV Patran
2	220kV Patran(PG)-Patran(PSTCL) ckt-2	115	
3	220kV Dhuri-Sunam ckt-1	135	If 220kV Bangan-Sunam is open. Line loading must be kept within N-1 loading limit.
4	220kV Dhuri-Sunam ckt-2	135	
5	220kV Dhuri-Sunam ckt-1	150	If 220kV Bangan-Sunam is closed. Line loading must be kept within N-1 loading limit.
6	220kV Dhuri-Sunam ckt-2	150	
7	220kV Jalandhar-Kartarpur ckt-1		220kV Jalandhar-Kartarpur ckt-2 is out and entire load of Kartarpur and Kotlajungan is being radially fed through 220kV Jalandhar-Kartarpur ckt-1 (single HTLS line, thermal loading limit 380MW), tripping of this line would lead to entire load loss of Kartarpur and Kotlajungan.