

National Load Despatch Centre
Import of Punjab Transfer Capability for January 2023

Issue Date: 28th September 2022

Issue Time: 1500 Hrs

Revision No. 0

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 January 2023 to 31st January 2023	00-08	9000	500	8500	4860	3640	0	
	08-18	9000	500	8500	4860	3640	0	
	18-24	9000	500	8500	4860	3640	0	
Limiting Constraints		<ol style="list-style-type: none"> 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

Punjab critical ICTs			
SI 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			
Sl 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.