

**National Load Despatch Centre**  
**Import of Punjab Transfer Capability for February 2023**

Issue Date: 28th October 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 February 2023 to 28th February 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	
<b>Limiting Constraints</b>		<ol style="list-style-type: none"> <li>1. N-1 contingency of 400/220KV ICTs at Nakodar, Ludhiana.</li> <li>2. Loading close to N-1 contingency limits of 400/220kV Patran, Malerkotla, Moga and Patiala ICTs</li> <li>3. 220 kV underlying network at Ludhiana and Amritsar</li> <li>4. Punjab SLDC to ensure minimum internal generation above 5000MW for this ATC/TTC.</li> <li>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</li> </ol>						

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<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision</b>

<b>Punjab critical ICTs</b>			
<b>SI No.</b>	<b>Name of Substation</b>	<b>ICTs Capacity (MVA)</b>	<b>N-1 Loading limit(MW)</b>
1	Rajpura	3*500	<b>1150</b>
2	Nakodar	2*315	<b>450</b>
3	Moga	2*500+1*250+1*315	<b>1185</b>
4	Ludhiana	2*315+2*500	<b>1265</b>
5	Amritsar	2*315+2*500	<b>1220</b>
6	Patiala	2*315+1*500	<b>855</b>
7	Patran	2*500	<b>615</b>
8	Dhuri	3*500	<b>1090</b>
<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.