

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

Issue Date: 9th April 2023

Issue Time: 1800 Hrs

Revision No. 1

| 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 April 2023 to 10th April 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 | |
| 11th April 2023 | 00-08 | 9300 | 500 | 8800 | 4860 | 3940 | 300 | Due to tripping of Talwandi Sabo unit 2 |
| | 08-18 | 9400 | 500 | 8900 | 4860 | 4040 | 400 | |
| | 18-24 | 9300 | 500 | 8800 | 4860 | 3940 | 300 | |
| 12th April 2023 to 30th April 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 | | 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 | 9th April 2023 | 11th April 2023 | Due to tripping of Talwandi Sabo unit 2 |

| 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 |
| 023 to 31st | Amritsar | 2*315+2*500 | 1220 |
| #VALUE! | Patiala | 2*315+1*500 | 855 |
| #VALUE! | 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 | |
| 023 to 31st | 220kV Dhuri-Sunam ckt-1 | 150 | If 220kV Bangan-Sunam is closed. Line loading must be kept within N-1 loading limit. |
| #VALUE! | 220kV Dhuri-Sunam ckt-2 | 150 | |
| #VALUE! | 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. |