

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

Issue Date: 29th June 2022

Issue Time: 1800 Hrs

Revision No. 5

| 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 July 2022 to 31st July 2022 | 00-08 | 9000 | 500 | 8500 | 5716 | 2784 | | Due to revision in LTA/MTOA Allocation for Punjab |
| | 08-18 | 9000 | 500 | 8500 | 5716 | 2784 | | |
| | 18-24 | 9000 | 500 | 8500 | 5716 | 2784 | | |
| 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 | 28.04.2022 | 1st July 2022 to 31st July 2022 | Bus split at 400kV Moga |
| 2 | 20.05.2022 | 1st July 2022 to 31st July 2022 | Augmentation of 315MVA ICT by 500MVA ICT at Ludhiana(PG) |
| 3 | 31.05.2022 | 1st July 2022 to 31st July 2022 | Addition of 500MVA ICT at 400/220kV Rajpura |
| 4 | 28.06.2022 | 1st July 2022 to 31st July 2022 | Due to Reconductoring of 220 kV Jalandhar - Kartarpur Ckt -1 |
| 5 | 29.06.2022 | 1st July 2022 to 31st July 2022 | Due to revision in LTA/MTOA Allocation for Punjab |

| 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 |

Loading of these ICTs should be kept within N-1 loading limit as specified above, loading of 220/66kV,

| 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. |