

| National Load Despatch Centre Total Transfer Capability for Jul 2024 | | | | | | | | | |
|---|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---|
| Issue Date:Jan 26 2024 | | | | Issue Time:18:36:28 | | | | Revision No :2 | |
| Corridor | Date | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment |
| ER-NER | 01 Jul to 31 Jul | 00:00 to 17:00 | 1850 | 60 | 1790 | NA | | 0 | |
| | | 17:00 to 21:00 | 1570 | 60 | 1510 | NA | | 0 | |
| | | 21:00 to 24:00 | 1850 | 60 | 1790 | NA | | 0 | |
| ER-NR | 01 Jul to 31 Jul | 00:00 to 24:00 | 6700 | 400 | 6300 | NA | | -1300 | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR |
| ER-SR | 01 Jul to 31 Jul | 00:00 to 06:00 | 6200 | 350 | 5850 | NA | | 200 | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB |
| | | 06:00 to 18:00 | 6200 | 350 | 5850 | NA | | 200 | |
| | | 18:00 to 24:00 | 6200 | 350 | 5850 | NA | | 200 | |
| ER-W3 | 01 Jul to 31 Jul | 00:00 to 24:00 | No limit is being specified. | | | | | | |
| ER-WR | 01 Jul to 31 Jul | 00:00 to 24:00 | NA | NA | | NA | | 0 | |
| NER-ER | 01 Jul to 31 Jul | 00:00 to 17:00 | 2900 | 60 | 2840 | NA | | 0 | |
| | | 17:00 to 21:00 | 2900 | 60 | 2840 | NA | | 0 | |
| | | 21:00 to 24:00 | 2900 | 60 | 2840 | NA | | 0 | |
| NR-ER | 01 Jul to 31 Jul | 00:00 to 06:00 | 4000 | 300 | 3700 | NA | | 0 | |
| | | 06:00 to 18:00 | 4000 | 300 | 3700 | NA | | 0 | |
| | | 18:00 to 24:00 | 4000 | 300 | 3700 | NA | | 0 | |
| NR-WR | 01 Jul to 31 Jul | 00:00 to 06:00 | 4000 | 500 | 3500 | NA | | 0 | |
| | | 06:00 to 18:00 | 4000 | 500 | 3500 | NA | | 0 | |
| | | 18:00 to 24:00 | 4000 | 500 | 3500 | NA | | 0 | |
| SR-ER | 01 Jul to 31 Jul | 00:00 to 24:00 | No limit is being specified. | | | | | | |
| SR-WR | 01 Jul to 31 Jul | 00:00 to 06:00 | 6000 | 650 | 5350 | NA | | 0 | |
| | | 06:00 to 18:00 | 7650 | 650 | 7000 | NA | | 0 | |
| | | 18:00 to 24:00 | 6000 | 650 | 5350 | NA | | 0 | |
| W3 Injection | 01 Jul to 31 Jul | 00:00 to 24:00 | NA | NA | | NA | | 0 | |
| W3-ER | 01 Jul to 31 Jul | 00:00 to 24:00 | No limit is being specified. | | | | | | |

| Corridor | Date | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment |
|---|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---|
| WR-ER | 01 Jul to 31 Jul | 00:00 to 06:00 | 5500 | 300 | 5200 | NA | | 0 | |
| | | 06:00 to 18:00 | 5500 | 300 | 5200 | NA | | 0 | |
| | | 18:00 to 24:00 | 5500 | 300 | 5200 | NA | | 0 | |
| WR-NR | 01 Jul to 31 Jul | 00:00 to 06:00 | 19200 | 1000 | 18200 | NA | | 1400 | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR |
| | | 06:00 to 18:00 | 19200 | 1000 | 18200 | NA | | 1400 | |
| | | 18:00 to 24:00 | 19200 | 1000 | 18200 | NA | | 1400 | |
| WR-SR | 01 Jul to 31 Jul | 00:00 to 06:00 | 16100 | 650 | 15450 | NA | | 1400 | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB |
| | | 06:00 to 18:00 | 16100 | 650 | 15450 | NA | | 1400 | |
| | | 18:00 to 24:00 | 16100 | 650 | 15450 | NA | | 1400 | |
| <ul style="list-style-type: none"> Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable. Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity. S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala W3 comprises of the following regional entities : a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l)DB Power, m) REGL (Previously KWPC), n)RKM, o)REL, p) Bharat Aluminium, q)MCCPL, r)SKS, s) TRN, t)NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC. In case of TTC Revision due to any shutdown : 1) The TTC value will be revised to normal values after restoration of shutdown. 2) The TTC value will be revised to normal values if the shutdown is not being availed in real time. Real Time TTC/ATC revisions are uploaded on Grid-India/NLDC "News Update" (Flasher) Section | | | | | | | | | |

Simultaneous Import Capability

| Corridor | Date | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---|
| ER | 01 Jul to 31 Jul | 00:00 to 24:00 | NA | NA | | 3088 | NA | 0 | |
| NER | 01 Jul to 31 Jul | 00:00 to 17:00 | 1350 | 60 | 1290 | 446 | 844 | 0 | |
| | | 17:00 to 21:00 | 1070 | 60 | 1010 | 446 | 564 | 0 | |
| | | 21:00 to 24:00 | 1350 | 60 | 1290 | 446 | 844 | 0 | |
| NR | 01 Jul to 31 Jul | 00:00 to 06:00 | 25900 | 1400 | 24500 | 17344 | 7156 | 100 | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR |
| | | 06:00 to 18:00 | 25900 | 1400 | 24500 | 17344 | 7156 | 100 | |
| | | 18:00 to 24:00 | 25900 | 1400 | 24500 | 17344 | 7156 | 100 | |

| Corridor | Date | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---|
| SR | 01 Jul to 31 Jul | 00:00 to 06:00 | 22300 | 1000 | 21300 | 6601 | 14699 | 1600 | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB |
| | | 06:00 to 18:00 | 22300 | 1000 | 21300 | 6601 | 14699 | 1600 | |
| | | 18:00 to 24:00 | 22300 | 1000 | 21300 | 6601 | 14699 | 1600 | |
| WR | 01 Jul to 31 Jul | 00:00 to 24:00 | NA | NA | | 7708 | NA | 0 | |

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.
- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- W3 comprises of the following regional entities : a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l) DB Power, m) REGL (Previously KWPC), n) RKM, o) REL, p) Bharat Aluminium, q) MCCPL, r) SKS, s) TRN, t) NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
- The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.
- In case of TTC Revision due to any shutdown : 1) The TTC value will be revised to normal values after restoration of shutdown. 2) The TTC value will be revised to normal values if the shutdown is not being availed in real time.
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Simultaneous Export Capability

| Corridor | Date | Time Period(hrs) | Total Transfer Capability(TTC) | Reliability Margin(RM) | Available Transfer Capability(ATC) | Approved GNA(MW) | Margin for T-GNA (MW) | Changes w.r.t. Previous Revision | Comment |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
| ER | 01 Jul to 31 Jul | 00:00 to 24:00 | NA | NA | | NA | | 0 | |
| NER | 01 Jul to 31 Jul | 00:00 to 17:00 | 3400 | 60 | 3340 | NA | | 0 | |
| | | 17:00 to 21:00 | 3400 | 60 | 3340 | NA | | 0 | |
| | | 21:00 to 24:00 | 3400 | 60 | 3340 | NA | | 0 | |
| NR | 01 Jul to 31 Jul | 00:00 to 06:00 | 4000 | 500 | 3500 | NA | | 0 | |
| | | 06:00 to 18:00 | 4000 | 500 | 3500 | NA | | 0 | |
| | | 18:00 to 24:00 | 4000 | 500 | 3500 | NA | | 0 | |
| SR | 01 Jul to 31 Jul | 00:00 to 06:00 | 5150 | 650 | 4500 | NA | | 0 | |
| | | 06:00 to 18:00 | 6600 | 650 | 5950 | NA | | 0 | |
| | | 18:00 to 24:00 | 5150 | 650 | 4500 | NA | | 0 | |
| WR | 01 Jul to 31 Jul | 00:00 to 24:00 | NA | NA | | NA | | 0 | |

- Based on the actual distribution of corridor flows, Counter flow benefit on account of transactions in the reverse direction would be considered for short-term transactions wherever applicable.
- Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.
- S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala
- W3 comprises of the following regional entities : a) Chattisgarh Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) NTPC Korba I, II & III, j) NTPC Sipat I & II, k) KSK Mahanadi, l) DB Power, m) REGL (Previously KWPC), n) RKM, o) REL, p) Bharat Aluminium, q) MCCPL, r) SKS, s) TRN, t) NTPC Lara, u) Adani Power Limited Raipur and any other regional entity generator in Chhattisgarh
- The figure is based on GNA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned, the dispatches of units would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.
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Limiting Constraints

| Corridor | Constraints | Revisions |
|------------|---|-----------|
| WR-NR | N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit | 0-2 |
| NR-ER | 1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka – Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2 | 0-2 |
| WR-ER | 1. Overloading of one circuit of 400 kV New Ranchi – New PPSP D/C on the tripping of the other circuit 2. Overloading of one circuit of 400 kV Kahalgaon – Farakka D/C on the tripping of the other circuit 3. Overloading of 400 kV Farakka – Sagardighi – 1 on the tripping of 400 kV Farakka – Sagardighi - 2 | 0-2 |
| ER-NR | Inter-regional flow pattern towards NR | 0-2 |
| WR-SR | Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT | 0-2 |
| ER-SR | 1. Low Voltage at Gazuwaka (East) Bus. | 0-2 |
| SR-WR | a) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– A at Raigarh - PS(Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direction (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa | 0-2 |
| ER-NER | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C | 0-2 |
| NER-ER | a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon-Alipurduar II or I | 0-2 |
| NR_IMPORT | N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit | 0-2 |
| NR_EXPORT | (N-1) Contingency of 400 kV Kankroli-Zerda-S/C will overload 400 KV Bhinmal-Zerda-S/C | 0-2 |
| NER_IMPORT | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C | 0-2 |
| NER_EXPORT | a) N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II b) High Loading of 400 kV Bongaigaon-Alipurduar II or I | 0-2 |
| SR_IMPORT | 1. Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT 2. Low Voltage at Gazuwaka (East) Bus | 0-2 |
| SR_EXPORT | a) Angular separation between Kudgi & Kolhapur (PG) under N-1 of 400 kV Kudgi - Kolhapur (PG) D/C touches 30 deg b) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– A at Raigarh - PS(Kotra) with increase in HVDC Raigarh – Pugalur Bipole – II power order beyond 950 MW in SR to WR Direction (Solar Hours) c) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh -PS (Kotra) with increase in HVDC Raigarh – Pugalur Bipole – I power order beyond 450 MW in SR to WR Direction (Solar Hours) d) N-1 Contingency of 400 kV Pune – Kalwa will overload 400 kV Pune -Khargar and vice-versa | 0-2 |

Revision Summary

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment | Corridor Affected |
|----------|------------------|--------------------|--|-------------------|
| 1 | 28 Dec | 01 Jul to 31 Jul | Change in T-GNA Margin due to grant of additional 174 MW GNA to Uttar Pradesh from outside Northern Region | NR_IMPORT |
| | | 01 Jul to 31 Jul | Change in T-GNA Margin due to grant of additional 55 MW GNA to Mizoram from outside North Eastern Region | NER_IMPORT |
| 2 | 26 Jan | 01 Jul to 31 Jul | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR | WR-NR |
| | | 01 Jul to 31 Jul | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR | ER-NR |
| | | 01 Jul to 31 Jul | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB | WR-SR |
| | | 01 Jul to 31 Jul | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB | ER-SR |
| | | 01 Jul to 31 Jul | TTC/ATC revised in view of change in load generation balance and inter-regional flow pattern towards NR | NR_IMPORT |
| | | 01 Jul to 31 Jul | TTC/ATC increased with the Commissioning of 765/400 kV, 1500 MVA ICT - 3 at Nizamabad and Change in LGB | SR_IMPORT |

ASSUMPTIONS IN BASECASE

Month : July'24

| S.No. | Name of State/Area | Demand | Generation |
|-------|--------------------|--------|------------|
|-------|--------------------|--------|------------|

| | | Non-Solar Peak(MW) | Solar Peak (MW) | Non-Solar Peak(MW) | Solar Peak (MW) |
|-----|-----------------------------|--------------------|-----------------|--------------------|-----------------|
| I | NORTHERN REGION | | | | |
| 1 | Punjab | 7031 | 7510 | 4881 | 4940 |
| 2 | Haryana | 7418 | 7386 | 3037 | 3499 |
| 3 | Rajasthan | 13248 | 16311 | 8225 | 10042 |
| 4 | Delhi | 4405 | 5136 | 564 | 545 |
| 5 | Uttar Pradesh | 22062 | 18685 | 10734 | 11973 |
| 6 | Uttarakhand | 2375 | 2108 | 694 | 463 |
| 7 | Himachal Pradesh | 1985 | 1936 | 474 | 302 |
| 8 | Jammu & Kashmir | 3311 | 2984 | 264 | 206 |
| 9 | Chandigarh | 266 | 258 | 0 | 0 |
| 10 | ISGS/IPPs | 105 | 105 | 18638 | 22308 |
| | Total NR | 62206 | 62419 | 47511 | 54278 |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 5063 | 4065 | 464 | 458 |
| 2 | Jharkhand | 1407 | 1559 | 410 | 365 |
| 3 | Damodar Valley Corporation | 3416 | 3284 | 5273 | 5244 |
| 4 | Orissa | 5269 | 4919 | 3608 | 3496 |
| 5 | West Bengal | 7175 | 6925 | 6049 | 5781 |
| 6 | Sikkim | 116 | 109 | 0 | 0 |
| 7 | Bhutan | 32 | 50 | 107 | 228 |
| 8 | ISGS/IPPs | 928 | 917 | 18890 | 15263 |
| | Total ER | 23406 | 21828 | 34802 | 30835 |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 24878 | 25141 | 15943 | 16380 |
| 2 | Gujarat | 18292 | 17984 | 6324 | 6349 |
| 3 | Madhya Pradesh | 15567 | 16371 | 6053 | 6073 |
| 4 | Chattisgarh | 4447 | 4465 | 1823 | 1592 |
| 5 | DD & DNH | 984 | 867 | 0 | 0 |
| 6 | Goa-WR | 660 | 554 | 0 | 0 |
| 7 | ISGS/IPPs | 2463 | 1937 | 53004 | 49159 |
| | Total WR | 67290 | 67320 | 83147 | 79553 |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 8005 | 10681 | 6952 | 8203 |
| 2 | Telangana | 10834 | 14680 | 5212 | 6980 |
| 3 | Karnataka | 12118 | 15214 | 6579 | 9390 |
| 4 | Tamil Nadu | 16381 | 16743 | 6524 | 9609 |
| 5 | Kerala | 4221 | 3432 | 1510 | 340 |
| 6 | Pondy | 493 | 494 | 0 | 0 |
| 7 | Goa-SR | 109 | 109 | 0 | 0 |
| 8 | ISGS/IPPs | 0 | 0 | 19847 | 21748 |
| | Total SR | 52162 | 61353 | 46623 | 56270 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 166 | 101 | 0 | 0 |
| 2 | Assam | 1441 | 1146 | 275 | 428 |
| 3 | Manipur | 262 | 139 | 0 | 0 |
| 4 | Meghalaya | 471 | 350 | 144 | 12 |
| 5 | Mizoram | 171 | 141 | 33 | 8 |
| 6 | Nagaland | 158 | 120 | 15 | 7 |
| 7 | Tripura | 369 | 318 | 190 | 187 |
| 8 | ISGS/IPPs | 0 | 0 | 3308 | 2557 |
| | Total NER | 3038 | 2314 | 3964 | 3200 |
| | Total All India | 208065 | 215177 | 215925 | 223878 |