

| National Load Despatch Centre Total Transfer Capability for Apr 2025 | | | | | | | | | |
|---|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
| Issue Date:Apr 02 2025 | | | | Issue Time:11:13:24 | | | Revision No :4 | | |
| 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 Apr to 30 Apr | 00:00 to 17:00 | 2600 | 60 | 2540 | NA | | 0 | |
| | | 17:00 to 21:00 | 1900 | 60 | 1840 | NA | | 0 | |
| | | 21:00 to 24:00 | 2600 | 60 | 2540 | NA | | 0 | |
| ER-NR | 01 Apr to 30 Apr | 00:00 to 24:00 | 6700 | 400 | 6300 | NA | | 0 | |
| ER-SR | 01 Apr to 30 Apr | 00:00 to 06:00 | 6200 | 350 | 5850 | NA | | 0 | |
| | | 06:00 to 18:00 | 6200 | 350 | 5850 | NA | | 0 | |
| | | 18:00 to 24:00 | 6200 | 350 | 5850 | NA | | 0 | |
| ER-W3 | 01 Apr to 30 Apr | 00:00 to 24:00 | No limit is being specified. | | | | | | |
| ER-WR | 01 Apr to 30 Apr | 00:00 to 24:00 | NA | NA | | NA | | 0 | |
| NER-ER | 01 Apr to 30 Apr | 00:00 to 17:00 | 3250 | 60 | 3190 | NA | | 0 | |
| | | 17:00 to 21:00 | 3250 | 60 | 3190 | NA | | 0 | |
| | | 21:00 to 24:00 | 3250 | 60 | 3190 | NA | | 0 | |
| NR-ER | 01 Apr to 01 Apr | 00:00 to 24:00 | 4000 | 300 | 3700 | NA | | 0 | |
| | 02 Apr to 30 Apr | 00:00 to 24:00 | 5200 | 300 | 4900 | NA | | 0 | |

| 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 |
|--------------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
| NR-WR | 01 Apr to 30 Apr | 00:00 to 06:00 | 6000 | 500 | 5500 | NA | | 0 | |
| | | 06:00 to 18:00 | 6000 | 500 | 5500 | NA | | 0 | |
| | | 18:00 to 24:00 | 6000 | 500 | 5500 | NA | | 0 | |
| SR-ER | 01 Apr to 30 Apr | 00:00 to 24:00 | No limit is being specified. | | | | | | |
| SR-WR | 01 Apr to 30 Apr | 00:00 to 06:00 | 7200 | 650 | 6550 | NA | | 0 | |
| | | 06:00 to 18:00 | 7100 | 650 | 6450 | NA | | 0 | |
| | | 18:00 to 24:00 | 7200 | 650 | 6550 | NA | | 0 | |
| W3 Injection | 01 Apr to 30 Apr | 00:00 to 24:00 | NA | NA | | NA | | 0 | |
| W3-ER | 01 Apr to 30 Apr | 00:00 to 24:00 | No limit is being specified. | | | | | | |
| WR-ER | 01 Apr to 30 Apr | 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 Apr to 30 Apr | 00:00 to 09:00 | 22350 | 1000 | 21350 | NA | | 0 | |
| | | 09:00 to 15:00 | 19050 | 1000 | 18050 | NA | | 0 | |
| | | 15:00 to 16:00 | 20550 | 1000 | 19550 | NA | | 0 | |
| | | 16:00 to 24:00 | 22350 | 1000 | 21350 | NA | | 0 | |
| WR-SR | 01 Apr to 30 Apr | 00:00 to 06:00 | 16100 | 650 | 15450 | NA | | 0 | |
| | | 06:00 to 18:00 | 16100 | 650 | 15450 | NA | | 0 | |

| 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 |
|---|------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|---------|
| | | 18:00 to 24:00 | 16100 | 650 | 15450 | NA | | 0 | |
| <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 Apr to 30 Apr | 00:00 to 24:00 | NA | NA | | NA | | 0 | |
| NER | 01 Apr to 30 Apr | 00:00 to 17:00 | 2100 | 60 | 2040 | 824 | 1216 | 0 | |
| | | 17:00 to 21:00 | 1400 | 60 | 1340 | 824 | 516 | 0 | |
| | | 21:00 to 24:00 | 2100 | 60 | 2040 | 824 | 1216 | 0 | |
| NR | 01 Apr to 30 Apr | 00:00 to 09:00 | 25700 | 1400 | 24300 | 17344 | 6956 | 0 | |
| | | 09:00 to 15:00 | 20250 | 1400 | 18850 | 17344 | 1506 | 0 | |
| | | 15:00 to 16:00 | 21750 | 1400 | 20350 | 17344 | 3006 | 0 | |
| | | 16:00 to 24:00 | 25700 | 1400 | 24300 | 17344 | 6956 | 0 | |

| 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 Apr to 30 Apr | 00:00 to 06:00 | 22300 | 1000 | 21300 | 7601 | 13699 | 0 | |
| | | 06:00 to 18:00 | 22300 | 1000 | 21300 | 7601 | 13699 | 0 | |
| | | 18:00 to 24:00 | 22300 | 1000 | 21300 | 7601 | 13699 | 0 | |
| WR | 01 Apr to 30 Apr | 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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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 Apr to 30 Apr | 00:00 to 24:00 | NA | NA | | NA | | 0 | |
| NER | 01 Apr to 30 Apr | 00:00 to 17:00 | 3750 | 60 | 3690 | NA | | 0 | |
| | | 17:00 to 21:00 | 3750 | 60 | 3690 | NA | | 0 | |

| 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 |
|----------|------------------|------------------|--------------------------------|------------------------|------------------------------------|------------------|-----------------------|----------------------------------|----------------------|
| | | 21:00 to 24:00 | 3750 | 60 | 3690 | NA | | 0 | |
| NR | 01 Apr to 02 Apr | 00:00 to 24:00 | 8000 | 500 | 7500 | NA | | 0 | |
| | 03 Apr to 30 Apr | 00:00 to 24:00 | 8000 | 500 | 7500 | NA | | 2000 | Due to change in LGB |
| SR | 01 Apr to 30 Apr | 00:00 to 06:00 | 6400 | 650 | 5750 | NA | | 0 | |
| | | 06:00 to 18:00 | 6400 | 650 | 5750 | NA | | 0 | |
| | | 18:00 to 24:00 | 6400 | 650 | 5750 | NA | | 0 | |
| WR | 01 Apr to 30 Apr | 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.
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- 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 KWPCCL), m)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
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Limiting Constraints

| Corridor | Constraints | Revisions |
|------------|---|-----------|
| WR-NR | 1. N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit 2. Low Voltages in major load Centres in the northern region during solar hours. 3. High loading of 765 KV Aligarh-Gr. Noida under N-1 contingency of 765 KV Bara-Mainpuri ckt | 0-4 |
| 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 | 0-4 |
| 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 | 0-4 |
| ER-NR | - | 0-4 |
| WR-SR | Outage of any one of the 2x1500 MVA, 765/400 kV ICTs at Maheswaram overloads the other ICT | 0-4 |
| ER-SR | 1. Low Voltage at Gazuwaka (East) Bus. | 0-4 |
| SR-WR | a) Angular separation between Kudgi & Kolhapur (PG) under N-1 touches 30 deg. b) N-1 Contingency of 765/400 kV, 1500 MVA ICTs at Raichur - PG will overload the other circuit. c) N-1 Contingency of 400 kV Kolhapur – Karad D/C will overload the other circuit. d) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh – PS (Kotra) with operation of HVDC Raigarh – Pugalur Bipole – 1 in SR-WR direction | 0-4 |
| ER-NER | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C | 0-4 |
| NER-ER | N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II leads to high Loading of 400 kV Bongaigaon-Alipurduar I or II | 0-4 |
| NR_IMPORT | 1. N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit 2. Low Voltages in major load Centres in the northern region during solar hours. 3. High loading of 765 KV Aligarh-Gr. Noida under N-1 contingency of 765 KV Bara-Mainpuri ckt 4. Inter-regional flow pattern towards NR | 0-4 |
| NR_EXPORT | 1. N-1 of 400 kV Banaskantha – Veloda D/C will overload the other circuit 2. High loading in lines such as 400 kV Zerda – Banaskantha and 400 kV Banaskantha – Ranchodpara 3. High loading in lines carrying power from North and Central Gujarat to South Gujarat 4. Low Voltages in South Gujarat complex | 0-4 |
| NER_IMPORT | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Balipara-Sonabil D/C | 0-4 |
| NER_EXPORT | N-1 contingency of 400 kV Bongaigaon-Alipurduar I or II leads to high Loading of 400 kV Bongaigaon-Alipurduar I or II | 0-4 |
| 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 | 0-4 |
| SR_EXPORT | a) Angular separation between Kudgi & Kolhapur (PG) under N-1 touches 30 deg. b) N-1 Contingency of 765/400 kV, 1500 MVA ICTs at Raichur - PG will overload the other circuit. c) N-1 Contingency of 400 kV Kolhapur – Karad D/C will overload the other circuit. d) N-1 non-compliance of 2*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh – PS (Kotra) with operation of HVDC Raigarh – Pugalur Bipole – 1 in SR-WR direction | 0-4 |

Revision Summary

| Revision | Date Of Revision | Period Of Revision | Reason for Revision/Comment | Corridor Affected |
|----------|------------------|--------------------|--|-------------------|
| 1 | 28 Aug | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | WR-NR |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | SR-WR |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | NR_IMPORT |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | SR_EXPORT |
| 2 | 30 Mar | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | WR-NR |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | ER-NER |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | NER-ER |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | NR_IMPORT |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | NER_IMPORT |
| | | 01 Apr to 02 Apr | TTC/ATC revised due to change in Load generation balance | NR_EXPORT |
| | | 01 Apr to 30 Apr | TTC/ATC revised due to change in LGB | NER_EXPORT |
| 3 | 01 Apr | 02 Apr to 30 Apr | Due to change in LGB | NR-ER |
| 4 | 02 Apr | 03 Apr to 30 Apr | Due to change in LGB | NR_EXPORT |

| ASSUMPTIONS IN BASECASE | | | | | |
|-------------------------|----------------------------|--------------------|-----------------|--------------------|-----------------|
| Month : April'25 | | | | | |
| 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 | 6786 | 6770 | 3900 | 3660 |
| 2 | Haryana | 6932 | 7300 | 1426 | 3659 |
| 3 | Rajasthan | 13840 | 17619 | 6944 | 8474 |
| 4 | Delhi | 4003 | 4328 | 365 | 314 |
| 5 | Uttar Pradesh | 18915 | 17337 | 10369 | 10075 |
| 6 | Uttarakhand | 1977 | 1728 | 821 | 366 |
| 7 | Himachal Pradesh | 1660 | 1709 | 595 | 306 |
| 8 | Jammu & Kashmir | 2278 | 2673 | 226 | 230 |
| 9 | Chandigarh | 203 | 176 | 0 | 0 |
| 10 | ISGS/IPPs | 114 | 115 | 19978 | 22204 |
| | Total NR | 56708 | 59755 | 44624 | 49288 |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 5084 | 4030 | 445 | 436 |
| 2 | Jharkhand | 1645 | 1700 | 406 | 427 |
| 3 | Damodar Valley Corporation | 3510 | 3400 | 5600 | 5332 |
| 4 | Orissa | 6186 | 6000 | 3818 | 3764 |
| 5 | West Bengal | 7660 | 8000 | 6462 | 6115 |
| 6 | Sikkim | 106 | 98 | 0 | 0 |
| 7 | Bhutan | 33 | 49 | 307 | 372 |
| 8 | ISGS/IPPs | 920 | 728 | 16923 | 17242 |

| | | | | | |
|-----|----------------------|--------|--------|--------|--------|
| | Total ER | 25143 | 24005 | 33962 | 33688 |
| | | | | | |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 25755 | 29506 | 16723 | 19565 |
| 2 | Gujarat | 18687 | 20689 | 8270 | 8865 |
| 3 | Madhya Pradesh | 14705 | 17125 | 7923 | 9952 |
| 4 | Chattisgarh | 4208 | 3970 | 1768 | 1801 |
| 5 | DD & DNH | 971 | 974 | 0 | 0 |
| 6 | Goa-WR | 674 | 676 | 0 | 0 |
| 7 | ISGS/IPPs | 2490 | 2493 | 47245 | 48284 |
| | Total WR | 67491 | 75433 | 81929 | 88468 |
| | | | | | |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 9057 | 12431 | 5376 | 7080 |
| 2 | Telangana | 7435 | 9730 | 4578 | 7247 |
| 3 | Karnataka | 10750 | 13304 | 5081 | 7257 |
| 4 | Tamil Nadu | 16629 | 16830 | 5755 | 9952 |
| 5 | Kerala | 4253 | 3484 | 1637 | 646 |
| 6 | Pondy | 578 | 575 | 25 | 40 |
| 7 | Goa-SR | 87 | 87 | 0 | 0 |
| 8 | ISGS/IPPs | 12 | 12 | 21969 | 20081 |
| | Total SR | 48800 | 56452 | 44422 | 52305 |
| | | | | | |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 164 | 100 | 0 | 0 |
| 2 | Assam | 1430 | 1140 | 271 | 444 |
| 3 | Manipur | 260 | 138 | 0 | 0 |
| 4 | Meghalaya | 468 | 348 | 139 | 13 |
| 5 | Mizoram | 169 | 140 | 31 | 8 |
| 6 | Nagaland | 157 | 119 | 14 | 7 |
| 7 | Tripura | 366 | 316 | 190 | 193 |
| 8 | ISGS/IPPs | 0 | 0 | 3215 | 2609 |
| | Total NER | 3014 | 2301 | 3860 | 3274 |
| | | | | | |
| | Total All India | 201120 | 217890 | 208385 | 226545 |