

**National Load Despatch Centre
Total Transfer Capability for August 2021**

Issue Date: 17th July, 2021

Issue Time: 17:30 hrs

Revision No. 4

| Corridor | Date | Time Period (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 | |
|--------------------|-------------------------------------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|---|------|
| NR-WR* | 1st August 2021 to 31st August 2021 | 00-06 | 2500 | 500 | 2000 | 253 | 1747 | | | |
| | | 06-18 | | | | 1339 | 661 | | | |
| | | 18-24 | | | | 253 | 1747 | | | |
| WR-NR* | 1st August 2021 to 31st August 2021 | 00-06 | 18450 17500** | 1000 | 17450 16500** | 11010 10060** | 6440 | | Revised Reliability Margin (TRM) from 500MW to 1000 MW considering 2% of the total anticipated peak demand met in MW in NR Import | |
| | | 06-18 | 18450 17500** | 1000 | 17450 16500** | 11399 10449** | 6051 | | | |
| | | 18-24 | 18450 17500** | 1000 | 17450 16500** | 11010 10060** | 6440 | | | |
| NR-ER* | 1st August 2021 to 31st August 2021 | 00-06 | 2000 | 200 | 1800 | 193 | 1607 | | | |
| | | 06-18 | | | | 1800 | 603 | 1197 | | |
| | | 18-24 | | | | 1800 | 193 | 1607 | | |
| ER-NR* | 1st August 2021 to 31st August 2021 | 00-24 | 6850 | 400 | 6450 | 4280 | 2170 | | Revised Reliability Margin (TRM) from 300 MW to 400 MW considering 2% of the total anticipated peak demand met in MW in NR Import | |
| W3-ER | 1st August 2021 to 31st August 2021 | 00-24 | No limit is being specified. | | | | | | | |
| ER-W3 | 1st August 2021 to 31st August 2021 | 00-24 | No limit is being specified. | | | | | | | |
| WR-SR [^] | 1st August 2021 to 31st August 2021 | 00-05 | 9350 | 650 | 8700 | 3896 | 4804 | | | |
| | | 05-22 | | | | | 8700 | 4804 | | |
| | | 22-24 | | | | | 8700 | 4804 | | |
| SR-WR * | 1st August 2021 to 31st August 2021 | 00-24 | 4600 | 400 | 4200 | 769 | 3431 | | | |
| ER-SR [^] | 1st August 2021 to 31st August 2021 | 00-06 | 5750 | 350 | 5400 | 2672 | 2728 | | | |
| | | 06-18 | | | | 2757 | 2643 | | | |
| | | 18-24 | | | | 2672 | 2728 | | | |
| SR-ER * | 1st August 2021 to 31st August 2021 | 00-24 | No limit is being Specified. | | | | | | | |
| ER-NER* | 1st August 2021 to 31st August 2021 | 00-02 | 825 | 45 | 780 | 474 | 306 | | | |
| | | 02-07 | | | | | 780 | 474 | | 306 |
| | | 07-12 | | | | | 785 | 474 | | 311 |
| | | 12-18 | | | | | 800 | 474 | | 326 |
| | | 18-22 | | | | | 555 | 474 | | 81 |
| | | 22-24 | | | | | 780 | 474 | | 306 |
| NER-ER* | 1st August 2021 to 31st August 2021 | 00-02 | 3260 | 45 | 3215 | 83 | 3132 | | | |
| | | 02-07 | | | | | 3215 | 83 | | 3132 |
| | | 07-12 | | | | | 3155 | 83 | | 3072 |
| | | 12-18 | | | | | 3205 | 83 | | 3122 |
| | | 18-22 | | | | | 3145 | 83 | | 3062 |
| | | 22-24 | | | | | 3215 | 83 | | 3132 |

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| Corridor | Date | Time Period (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 |
|--------------------------|-------------------------------------|-------------------|---|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
| W3 zone Injection | 1st August 2021 to 31st August 2021 | 00-24 | No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly) | | | | | | |

Note: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

**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.

1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala

2) 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) Korba, j) Sipat, k) KSK Mahanadi, L)DB Power, m) KWPC, n)Vandana Vidyut o)RKM, p)GMR Raikheda, q)Ind Barath and any other regional entity generator in Chhattisgarh

The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned the LTA/MTOA utilized 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 POSOCO/NLDC "News Update" (Flasher) Section

^Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of WR-SR and ER-SR corridor has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.

^In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka SLDC by taking appropriate measures.

SR-WR TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.

| Simultaneous Import Capability | | | | | | | | | |
|--|-------------------------------------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|--|
| Corridor | Date | Time Period (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 |
| NR | 1st August 2021 to 31st August 2021 | 00-06 | 25300 24350** | 1400 | 23900 22950** | 15289 14339** | 8611 | | Revised Reliability Margin (TRM) from 800 MW to 1400 MW considering 2% of the total anticipated peak demand met in MW in NR Import |
| | | 06-09 | 25300 24350** | | 23900 22950** | 15678 14728** | 8222 | | |
| | | 09-17 | 25300 24350** | | 23900 22950** | 15678 14728** | 8222 | | |
| | | 17-18 | 25300 24350** | | 23900 22950** | 15678 14728** | 8222 | | |
| | | 18-24 | 25300 24350** | | 23900 22950** | 15289 14339** | 8611 | | |
| | | | | | | | | | |
| NER* | 1st August 2021 to 31st August 2021 | 00-02 | 825 | 45 | 780 | 474 | 306 | | |
| | | 02-07 | 825 | | 780 | 474 | 306 | | |
| | | 07-12 | 830 | | 785 | 474 | 311 | | |
| | | 12-18 | 845 | | 800 | 474 | 326 | | |
| | | 18-22 | 600 | | 555 | 474 | 81 | | |
| | | 22-24 | 825 | | 780 | 474 | 306 | | |
| WR* | | | | | | | | | |
| SR [#] | 1st August 2021 to 31st August 2021 | 00-06 | 15100 | 1000 | 14100 | 6570 | 7530 | | |
| | | 06-18 | 15100 | | 14100 | 6655 | 7445 | | |
| | | 18-24 | 15100 | | 14100 | 6570 | 7530 | | |
| * Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve). | | | | | | | | | |
| **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. | | | | | | | | | |
| * For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio: Margin in Simultaneous import of NR = A WR-NR ATC =B ER-NR ATC = C Margin for WR-NR applicants = A * B/(B+C) Margin for ER-NR Applicants = A * C/(B+C) | | | | | | | | | |
| Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section | | | | | | | | | |
| #Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of SR Import has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation. | | | | | | | | | |
| In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka by taking appropriate measures. | | | | | | | | | |

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.

| Simultaneous Export Capability | | | | | | | | | |
|--------------------------------|-------------------------------------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|--|
| Corridor | Date | Time Period (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 |
| NR* | 1st August 2021 to 31st August 2021 | 00-06 | 4500 | 700 | 3800 | 446 | 3354 | | |
| | | 06-18 | | | 3800 | 1942 | 1858 | | |
| | | 18-24 | 4500 | | 3800 | 446 | 3354 | | |
| NER* | 1st August 2021 to 31st August 2021 | 00-02 | 3260 | 45 | 3215 | 83 | 3132 | | |
| | | 02-07 | 3260 | | 3215 | 83 | 3132 | | |
| | | 07-12 | 3200 | | 3155 | 83 | 3072 | | |
| | | 12-18 | 3250 | | 3205 | 83 | 3122 | | |
| | | 18-22 | 3190 | | 3145 | 83 | 3062 | | |
| | | 22-24 | 3260 | | 3215 | 83 | 3132 | | |
| WR* | | | | | | | | | |
| SR*^ | 1st August 2021 to 31st August 2021 | 00-24 | 3700 | 400 | 3300 | 1489 | 1811 | | Revised STOA margin due to increase in LTA allocation from BETAM to UP (NR) & Odisha each by 4 MW (62 MW to 8MW) |

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

^SR Export TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

| Limiting Constraints (Corridor wise) | | Applicable Revisions | |
|---|--|--|-------------|
| Corridor | Constraint | | |
| WR-NR | N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT | Rev- 0 to 1 | |
| | N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT | Rev- 2 to 4 | |
| NR-ER | (n-1) contingency of 400 kV Saranath-Pusauli | Rev- 0 to 4 | |
| ER-NR | 1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. Inter-regional flow pattern towards NR | Rev- 0 to 1 | |
| | Inter-regional flow pattern towards NR | Rev- 2 to 4 | |
| WR-SR and ER-SR | N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT | Rev- 0 to 4 | |
| | N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit | | |
| | Low Voltage at Gazuwaka (East) Bus. | | |
| SR-WR | a) N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt b) N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs | Rev- 0 to 4 | |
| ER-NER | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C | Rev- 0 to 4 | |
| NER-ER | a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I | Rev- 0 to 4 | |
| W3 zone Injection | --- | Rev- 0 to 4 | |
| Limiting Constraints (Simultaneous) | | Applicable Revisions | |
| NR | Import | 1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. Inter-regional flow pattern towards NR | Rev- 0 to 1 |
| | | Inter-regional flow pattern towards NR | Rev- 2 to 4 |
| | | N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT | Rev- 0 to 1 |
| | Export | N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT | Rev- 2 to 4 |
| | | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. | Rev- 0 to 4 |
| | | (n-1) contingency of 400 kV Saranath-Pusauli | |
| NER | Import | a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C | Rev- 0 to 4 |
| | Export | a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I | Rev- 0 to 4 |
| SR | Import | N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT | Rev- 0 to 4 |
| | | N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit | |
| | | Low Voltage at Gazuwaka (East) Bus | |
| | Export | N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs | Rev- 0 to 4 |

National Load Despatch Centre
Total Transfer Capability for August 2021

| Revision No | Date of Revision | Period of Revision | Reason for Revision/Comment | Corridor Affected |
|--------------------|-------------------------|---------------------------|--|--------------------------|
| 1 | 28th May 2021 | Whole month | 1) Revised STOA margin due to increase in LTA allocations by 13 MW (77 MW to 90 MW) from AWEK1L to UPPCL. | WR-NR/NR Import |
| | | | 2) Revised STOA margin due to LTA allocations of 13 MW from AWEK1L to Chandigarh. | |
| | | | 4) Revised STOA margin due to decrease in LTA allocation by 38 MW (100 MW to 62 MW) from BETAM to UP (NR). | SR-WR/SR Export |
| 2 | 4th June 2021 | Whole month | a) Reversal in HVDC APD-Agra flow | WR-NR, ER-NR & NR Import |
| | | | b) Commissioning of 765kV Ajmer-Phagi D/C and 765kV G.Noida-Fatehabad S/C | |
| 3 | 28th June 2021 | Whole month | a) Revised STOA margin due to decrease in LTA allocations by 5 MW (90 MW to 85 MW) from AWEK1L to UPPCL | WR-NR/NR Import |
| | | | b) Revised STOA margin due to increase in LTA allocations by 21 MW (19 MW to 40 MW) from AWEK1L to Chandigarh | |
| | | | Revised STOA margin due to increase in LTA allocations by 10 MW (65 MW to 75 MW) from AWEKTL-WR to KSEB | WR-SR/ SR Import |
| | | | Revised STOA margin due to increase in LTA allocation by 4 MW (62 MW to 68 MW) from BETAM to UP (NR) | SR-WR |
| | | | Revised STOA margin due to increase in LTA allocation from BETAM to UP (NR) & Odisha each by 4 MW (62 MW to 8MW) | SR Export |
| 4 | 17th July 2021 | Whole month | Revised Reliability Margin (TRM) considering 2% of the total anticipated peak demand met in MW in NR Import | WR-NR, ER-NR & NR Import |

| ASSUMPTIONS IN BASECASE | | | | | |
|-------------------------|----------------------------|----------------|--------------------|---------------------|---------------|
| | | | | Month : August 2021 | |
| S.No. | Name of State/Area | Load | | Generation | |
| | | Peak Load (MW) | Off Peak Load (MW) | Peak (MW) | Off Peak (MW) |
| I | NORTHERN REGION | | | | |
| 1 | Punjab | 10744 | 10867 | 3971 | 3971 |
| 2 | Haryana | 9492 | 9088 | 2701 | 2701 |
| 3 | Rajasthan | 10485 | 9635 | 8259 | 8259 |
| 4 | Delhi | 5321 | 5152 | 796 | 795 |
| 5 | Uttar Pradesh | 20631 | 20099 | 10623 | 10689 |
| 6 | Uttarakhand | 2124 | 1886 | 928 | 939 |
| 7 | Himachal Pradesh | 1354 | 1114 | 783 | 769 |
| 8 | Jammu & Kashmir | 2363 | 1962 | 884 | 883 |
| 9 | Chandigarh | 313 | 249 | 0 | 0 |
| 10 | ISGS/PPs | 48 | 48 | 21958 | 20013 |
| | Total NR | 62875 | 60100 | 50903 | 49019 |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 6537 | 5617 | 356 | 349 |
| 2 | Jharkhand | 1958 | 1503 | 511 | 501 |
| 3 | Damodar Valley Corporation | 2985 | 2723 | 5856 | 4190 |
| 4 | Orissa | 4513 | 4310 | 3998 | 3798 |
| 5 | West Bengal | 9704 | 8401 | 7033 | 6210 |
| 6 | Sikkim | 119 | 116 | 0 | 0 |
| 7 | Bhutan | 181 | 181 | 2325 | 2325 |
| 8 | ISGS/PPs | 810 | 810 | 15771 | 11533 |
| | Total ER | 26808 | 23662 | 35850 | 28906 |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 17405 | 16509 | 11624 | 10789 |
| 2 | Gujarat | 13918 | 11320 | 8601 | 7246 |
| 3 | Madhya Pradesh | 9254 | 8534 | 3596 | 3845 |
| 4 | Chattisgarh | 4309 | 3965 | 2531 | 2835 |
| 5 | Daman and Diu | 276 | 236 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 744 | 870 | 0 | 0 |
| 7 | Goa-WR | 534 | 420 | 0 | 0 |
| 8 | ISGS/PPs | 1784 | 3263 | 36712 | 32338 |
| | Total WR | 48224 | 45117 | 63064 | 57053 |

| | | | | | |
|----|----------------------|--------|--------|--------|--------|
| | | | | | |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 8024 | 7220 | 6268 | 5204 |
| 2 | Telangana | 9100 | 8117 | 5196 | 5078 |
| 3 | Karnataka | 8396 | 6654 | 6023 | 4850 |
| 4 | Tamil Nadu | 15210 | 13068 | 7256 | 6376 |
| 5 | Kerala | 3778 | 2349 | 1614 | 961 |
| 6 | Pondy | 264 | 264 | 0 | 0 |
| 7 | Goa-SR | 82 | 82 | 0 | 0 |
| 8 | ISGS/IPPs | 37 | 37 | 14805 | 14794 |
| | Total SR | 44891 | 37791 | 41162 | 37263 |
| | | | | | |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 140 | 95 | 118 | 118 |
| 2 | Assam | 1849 | 1588 | 615 | 574 |
| 3 | Manipur | 207 | 86 | 105 | 103 |
| 4 | Meghalaya | 315 | 255 | 302 | 229 |
| 5 | Mizoram | 150 | 55 | 60 | 60 |
| 6 | Nagaland | 173 | 155 | 96 | 93 |
| 7 | Tripura | 435 | 260 | 300 | 300 |
| 8 | ISGS/IPPs | 0 | 0 | 2371 | 2370 |
| | Total NER | 3269 | 2494 | 3967 | 3847 |
| | | | | | |
| | Total All India | 186067 | 169164 | 194946 | 176088 |