# National Load Despatch Centre
## Total Transfer Capability for August 2019

Issue Date: 28th May 2019 Issue Time: 1800 hrs Revision No. 2

| 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 2019 to 31st August 2019 | 00-06 | 2500 | 500 | 2000 | 195 | 1805 | | |
| | | 06-18 | | | | 250 | 1750 | | |
| | | 18-24 | | | | 195 | 1805 | | |
| **WR-NR*** | 1st August 2019 to 31st August 2019 | 00-24 | 13250<br>12300** | 500 | 12750<br>11800** | 9783<br>8833** | 2967<br>2967** | | Revised STOA margin due to the following:-<br>a) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to Punjab.<br>b) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to UP.<br>c) Change in LTA quantum from Mytrah Power to UP from 75 MW to 100 MW.<br>d) Change in LTA quantum from KSK Mahanadi to UP from 950 MW to 820 MW.<br>e) Change in LTA quantum from ACME - RUMS to DMRC from 30 to 33 MW.<br>f) Change in LTA quantum from ARINSUN - Rewa UMSP to DMRC from 30 to 33 MW.<br>g) Change in LTA quantum from Mahindra - Rewa UMSP to DMRC from 15 to 7.75 MW. |
| **NR-ER*** | 1st August 2019 to 31st August 2019 | 00-06 | 2000 | 200 | 1800 | 193 | 1607 | | |
| | | 06-18 | 2000 | | 1800 | 303 | 1497 | | |
| | | 18-24 | 2000 | | 1800 | 193 | 1607 | | |
| **ER-NR*** | 1st August 2019 to 31st August 2019 | 00-24 | 5250 | 300 | 4950 | 3979 | 971 | | |
| **W3-ER** | 1st August 2019 to 31st August 2019 | 00-24 | No limit is being specified. | | | | | | |
| **ER-W3** | 1st August 2019 to 31st August 2019 | 00-24 | No limit is being specified. | | | | | | |
| **WR-SR** | 1st August 2019 to 31st August 2019 | 00-05 | 5550 | 500 | 5050 | 4143 | 907 | | Revised STOA margin due to the following:-<br>a) Change in MTOA quantum from KSK Mahanadi to AP from 150 MW to 340 MW.<br>b) Change in LTA quantum from KSK Mahanadi to TN from 500 MW to 440 MW.<br>c) Completion of 200 MW MTOA from JPL -II to TN. |
| | | 05-22 | 5550 | | 5050 | | 907 | | |
| | | 22-24 | 5550 | | 5050 | | 907 | | |
| **SR-WR *** | 1st August 2019 to 31st August 2019 | 00-24 | No limit is being Specified. | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| **ER-SR** | 1st August 2019 to 31st August 2019 | 00-06 | 4950 | 250 | 4700 | 2748 | 1952 | | |
| | | 06-18 | | | | 2833 | 1867 | | |
| | | 18-24 | | | | 2748 | 1952 | | |
| **SR-ER *** | 1st August 2019 to 31st August 2019 | 00-24 | No limit is being Specified. | | | | | | |
| **ER-NER** | 1st August 2019 to 31st August 2019 | 00-17 | 1030 | 45 | 985 | 280 | 705 | | |
| | | 17-23 | 1040 | | 995 | | 715 | | |
| | | 23-24 | 1030 | | 985 | | 705 | | |
| **NER-ER** | 1st August 2019 to 31st August 2019 | 00-17 | 2200 | 45 | 2155 | 0 | 2155 | | |
| | | 17-23 | 1960 | | 1915 | | 1915 | | |
| | | 23-24 | 2200 | | 2155 | | 2155 | | |
| **W3 zone Injection** | 1st August 2019 to 31st August 2019 | 00-24 | No limit is being specified (In case ofany 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) KWPCL, 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 commissionned 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 willl be revised to normal values if the shutdown is not being availed in real time.

**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 |
|---|---|---|---|---|---|---|---|---|---|
| **ER** | | | | | | | | | |
| | | | | | | | | | |
| **NR** | 1st August 2019 to 31st August 2019 | 00-06 | 17650<br>16700** | 800 | 16850<br>15900** | 13762<br>12812** | 3088<br>3088** | | Revised STOA margin due to the following:-<br>a) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to Punjab.<br>b) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to UP.<br>c) Change in LTA quantum from Mytrah Power to UP from 75 MW to 100 MW.<br>d) Change in LTA quantum from KSK Mahanadi to UP from 950 MW to 820 MW.<br>e) Change in LTA quantum from ACME - RUMS to DMRC from 30 to 33 MW.<br>f) Change in LTA quantum from ARINSUN - Rewa UMSP to DMRC from 30 to 33 MW.<br>g) Change in LTA quantum from Mahindra - Rewa UMSP to DMRC from 15 to 7.75 MW. |
| | | 06-17 | 18900<br>17950** | | 18100<br>17150** | | 4388<br>4388** | | |
| | | 17-24 | 17000<br>16050** | | 16200<br>15250** | | 2438<br>2438** | | |
| **NER** | 1st August 2019 to 31st August 2019 | 00-17 | 1030 | 45 | 985 | 280 | 705 | | |
| | | 17-23 | 1040 | | 995 | | 715 | | |
| | | 23-24 | 1030 | | 985 | | 705 | | |
| **WR** | | | | | | | | | |
| | | | | | | | | | |
| **SR** | 1st August 2019 to 31st August 2019 | 00-06 | 10500 | 750 | 9750 | 6891 | 2859 | | Revised STOA margin due to the following:-<br>a) Change in MTOA quantum from KSK Mahanadi to AP from 150 MW to 340 MW.<br>b) Change in LTA quantum from KSK Mahanadi to TN from 500 MW to 440 MW.<br>c) Completion of 200 MW MTOA from JPL -II to TN. |
| | | 06-18 | 10500 | | 9750 | 6976 | 2774 | | |
| | | 18-24 | 10500 | | 9750 | 6891 | 2859 | | |

* 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)

**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 2019 to 31st August 2019 | 00-06 | 4500 | 700 | 3800 | 388 | 3412 | | |
| | | 06-18 | | | 3800 | 553 | 3247 | | |
| | | 18-24 | 4500 | | 3800 | 388 | 3412 | | |
| NER | 1st August 2019 to 31st August 2019 | 00-17 | 2200 | 45 | 2155 | 0 | 2155 | | |
| | | 17-23 | 1960 | | 1915 | | 1915 | | |
| | | 23-24 | 2200 | | 2155 | | 2155 | | |
| WR | | | | | | | | | |
| | | | | | | | | | |
| SR * | 1st August 2019 to 31st August 2019 | 00-24 | No limit is being Specified. | | | | | | |

* 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).

## Limiting Constraints (Corridor wise)

| Corridor | Constraint | Applicable Revisions |
|---|---|---|
| **NR-WR** | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak | Rev-0 to 2 |
| **WR-NR** | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT | Rev-0 to 1 |
| | n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line | Rev - 2 |
| **NR-ER** | (n-1) contingency of 400 kV Saranath-Pusauli | Rev-0 to 2 |
| **ER-NR** | 1. N-1 contingencies of 400 kv Mejia-Maithon A S/C<br>2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C<br>3. N-1 contingencies of 400kV MPL- Maithon S/C | Rev-0 to 2 |
| **WR-SR and ER-SR** | n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT | Rev-0 to 2 |
| | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT | Rev-0 to 2 |
| | Low Voltage at Gazuwaka (East) Bus. | Rev-0 to 2 |
| **ER-NER** | a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa<br>b. High loading of 220 kV Balipara-Sonabil line(200 MW) | Rev-0 to 2 |
| **NER-ER** | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa | Rev-0 to 2 |
| **W3 zone Injection** | --- | Rev-0 to 2 |

## Limiting Constraints (Simultaneous)

| | | | Applicable Revisions |
|---|---|---|---|
| **NR** | **Import** | 1. N-1 contingencies of 400 kv Mejia-Maithon A S/C<br>2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C<br>3. N-1 contingencies of 400kV MPL- Maithon S/C | Rev-0 to 2 |
| | | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT | Rev-0 to 1 |
| | | n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida | Rev - 2 |
| | **Export** | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. | Rev-0 to 2 |
| | | (n-1) contingency of 400 kV Saranath-Pusauli | |
| **NER** | **Import** | a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa<br>b. High loading of 220 kV Balipara-Sonabil line(200 MW) | Rev-0 to 2 |
| | **Export** | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa | Rev-0 to 2 |
| **SR** | **Import** | n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT | Rev-0 to 2 |
| | | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT | Rev-0 to 2 |
| | | Low Voltage at Gazuwaka (East) Bus. | Rev-0 to 2 |

# National Load Despatch Centre
# Total Transfer Capability for August 2019

| Revision No | Date of Revision | Period of Revision | Reason for Revision/Comment | Corridor Affected |
|---|---|---|---|---|
| 1 | 24th May'19 | Whole Month | Change in LTA quantum from Tuticorin Mytrah Power to Assam from 37.4 MW to 50 MW | ER-NER/Import of NER |
| 2 | 28th May'19 | Whole Month | a) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to Punjab.<br>b) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to UP.<br>c) Change in LTA quantum from Mytrah Power to UP from 75 MW to 100 MW.<br>d) Change in LTA quantum from KSK Mahanadi to UP from 950 MW to 820 MW.<br>e) Change in LTA quantum from ACME - RUMS to DMRC from 30 to 33 MW.<br>f) Change in LTA quantum from ARINSUN - Rewa UMSP to DMRC from 30 to 33 MW.<br>g) Change in LTA quantum from Mahindra - Rewa UMSP to DMRC from 15 to 7.75 MW. | WR-NR/Import of NR |
| | | | a) Change in MTOA quantum from KSK Mahanadi to AP from 150 MW to 340 MW.<br>b) Change in LTA quantum from KSK Mahanadi to TN from 500 MW to 440 MW.<br>c) Completion of 200 MW MTOA from JPL -II to TN. | WR-SR/Import of SR |

| ASSUMPTIONS IN BASECASE | | | | | |
|---|---|---|---|---|---|
| | | | | Month : August'19 | |
| 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 | 11409 | 10282 | 5311 | 5317 |
| 2 | Haryana | 8551 | 7937 | 2055 | 2055 |
| 3 | Rajasthan | 12256 | 12733 | 7743 | 7779 |
| 4 | Delhi | 6144 | 6014 | 860 | 860 |
| 5 | Uttar Pradesh | 16521 | 15725 | 8770 | 8628 |
| 6 | Uttarakhand | 2128 | 1660 | 1011 | 1005 |
| 7 | Himachal Pradesh | 1587 | 1221 | 768 | 841 |
| 8 | Jammu & Kashmir | 2927 | 1813 | 1295 | 1287 |
| 9 | Chandigarh | 360 | 291 | 0 | 0 |
| 10 | ISGS/IPPs | 29 | 29 | 21398 | 19959 |
| | Total NR | 61911 | 57704 | 49858 | 47448 |
| | | | | | |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 4736 | 3196 | 218 | 168 |
| 2 | Jharkhand | 1378 | 894 | 409 | 324 |
| 3 | Damodar Valley Corporation | 2890 | 2691 | 5347 | 3710 |
| 4 | Orissa | 4573 | 3315 | 3426 | 2135 |
| 5 | West Bengal | 8876 | 6235 | 6226 | 4638 |
| 6 | Sikkim | 104 | 87 | 0 | 0 |
| 7 | Bhutan | 196 | 192 | 1502 | 1539 |
| 8 | ISGS/IPPs | 294 | 605 | 11522 | 9561 |
| | Total ER | 23383 | 17242 | 28816 | 21910 |
| | | | | | |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 16686 | 11635 | 12358 | 9454 |
| 2 | Gujarat | 14784 | 11264 | 10889 | 7970 |
| 3 | Madhya Pradesh | 8449 | 6463 | 4565 | 4738 |
| 4 | Chattisgarh | 4202 | 3260 | 2690 | 2531 |
| 5 | Daman and Diu | 312 | 303 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 788 | 739 | 0 | 0 |
| 7 | Goa-WR | 443 | 311 | 0 | 0 |
| 8 | ISGS/IPPs | 4397 | 2734 | 40908 | 20998 |
| | Total WR | 50106 | 37736 | 67270 | 52246 |

| S.No. | Name of State/Area | Load | | Generation | |
|---|---|---|---|---|---|
| | | Peak Load (MW) | Off Peak Load (MW) | Peak (MW) | Off Peak (MW) |
| | | | | | |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 7635 | 7789 | 6331 | 4357 |
| 2 | Telangana | 11672 | 10096 | 5436 | 4458 |
| 3 | Karnataka | 7975 | 4875 | 7027 | 4462 |
| 4 | Tamil Nadu | 15150 | 13043 | 8157 | 6258 |
| 5 | Kerala | 3688 | 2142 | 1549 | 423 |
| 6 | Pondy | 358 | 344 | 0 | 0 |
| 7 | Goa-SR | 70 | 67 | 0 | 0 |
| 8 | ISGS/IPPs | 0 | 0 | 13977 | 12028 |
| | Total SR | 46549 | 38357 | 41069 | 31986 |
| | | | | | |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 129 | 69 | 0 | 0 |
| 2 | Assam | 1715 | 1276 | 255 | 192 |
| 3 | Manipur | 184 | 88 | 0 | 0 |
| 4 | Meghalaya | 280 | 206 | 272 | 246 |
| 5 | Mizoram | 101 | 67 | 62 | 44 |
| 6 | Nagaland | 130 | 133 | 22 | 6 |
| 7 | Tripura | 254 | 161 | 75 | 75 |
| 8 | ISGS/IPPs | | 99 | | 2352 |
| | Total NER | 2962 | 2087 | 3067 | 2858 |
| | | | | | |
| | Total All India | 184769 | 152866 | 191199 | 157257 |