

National Load Despatch Centre
Total Transfer Capability for August 2018

Issue Date: 31st July 2018

Issue Time: 1800 hrs

Revision No. 3

| 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 2018 | 00-06 | 2500 | 500 | 2000 | 55 | 1945 | | |
| | | 06-18 | | | | 65 | 1935 | | |
| | | 18-24 | | | | 55 | 1945 | | |
| NR-WR* | 2nd August 2018 to 31st August 2018 | 00-06 | 2500 | 500 | 2000 | 240 | 1760 | | Revised STOA margins due to: (a) 40 MW LTA from DSPPL,Rajasthan to R Infra,Maharashtra and 5 MW LTA from Rajasthan to Chattisgarh (b) 40 MW allocation to MP from NR ISGS (c) 100 MW allocation to Chattisgarh from Kishanganga NR |
| | | 06-18 | | | | 250 | 1750 | | |
| | | 18-24 | | | | 240 | 1760 | | |
| WR-NR* | 1st August 2018 | 00-24 | 12000 11050** | 500 | 11500 10550** | 9127 8177** | 2373 2373** | | |
| | 2nd August 2018 to 31st August 2018 | 00-24 | 12000 11050** | 500 | 11500 10550** | 9034 8084** | 2466 2466** | | Revised STOA margin due to change in LTA/MTOA |
| NR-ER* | 1st August 2018 to 31st August 2018 | 00-06 | 2000 | 200 | 1800 | 193 | 1607 | | |
| | | 06-18 | 2000 | | 1800 | 303 | 1497 | | |
| | | 18-24 | 2000 | | 1800 | 193 | 1607 | | |
| ER-NR* | 1st August 2018 to 31st August 2018 | 00-24 | 5250 | 300 | 4950 | 3867 | 1083 | | |
| W3-ER | 1st August 2018 to 31st August 2018 | 00-24 | No limit is being specified. | | | | | | |
| ER-W3 | 1st August 2018 to 31st August 2018 | 00-24 | No limit is being specified. | | | | | | |
| WR-SR | 1st August 2018 | 00-24 | 5150 | 500 | 4650 | 4515 | 135 | | |
| | 2nd August 2018 | 00-0930 | 5150 | 500 | 4650 | 4535 | 115 | | Revised due to (a) ICT-2 shutdown at Maheshwaram (b) Change in allocation to Telangana from WR plants |
| | | 0930-18 | 4950 | | 4450 | | 0 | -200 | |
| | | 18-24 | 5150 | | 4650 | | 115 | | |
| 3rd August 2018 to 31st Aug 2018 | 22-24 | 5150 | 500 | 4650 | 4535 | 115 | | Revised STOA margin due to change in allocation to Telangana from WR plants | |
| SR-WR * | 1st August 2018 to 31st August 2018 | 00-24 | No limit is being Specified. | | | | | | |
| ER-SR | 1st August 2018 to 31st August 2018 | 00-06 | 4350 | 250 | 4100 | 2762 | 1338 | | |
| | | 06-18 | | | | 2847 | 1253 | | |
| | | 18-24 | | | | 2762 | 1338 | | |
| SR-ER * | 1st August 2018 to 31st August 2018 | 00-24 | No limit is being Specified. | | | | | | |

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|----------|-------------------------------------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
| ER-NER | 1st August 2018 to 2nd August 2018 | 00-08 | 1310 | 45 | 1265 | 225 | 1040 | | |
| | | 08-17 | 990 | | 945 | | 720 | | |
| | | 17-23 | 910 | | 865 | | 640 | | |
| | | 23-24 | 990 | | 945 | | 720 | | |
| | 3rd August 2018 to 31st August 2018 | 00-17 | 1310 | 45 | 1265 | 225 | 1040 | | |
| | | 17-23 | 1230 | | 1185 | | 960 | | |
| 23-24 | | 1310 | 1265 | | 1040 | | | | |
| NER-ER | 1st August 2018 to 2nd August 2018 | 00-08 | 1780 | 45 | 1735 | 0 | 1735 | | |
| | | 08-17 | 1320 | | 1275 | | 1275 | | |
| | | 17-23 | 1390 | | 1345 | | 1345 | | |
| | | 23-24 | 1320 | | 1275 | | 1275 | | |
| | 3rd August 2018 to 31st August 2018 | 00-17 | 1780 | 45 | 1735 | 0 | 1735 | | |
| | | 17-23 | 1850 | | 1805 | | 1805 | | |
| 23-24 | | 1780 | 1735 | | 1735 | | | | |

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|----------|------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
|----------|------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|

| | | | | | | | | | |
|--------------------------|-------------------------------------|-------|---|--|--|--|--|--|--|
| W3 zone Injection | 1st August 2018 to 31st August 2018 | 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) KWPCCL, 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.

| | | | | | | | | | |
|-----------|-------------------------------------|--------|------|-----|------|------|------|------|--|
| SR | 1st August 2018 | 00-05 | 9500 | 750 | 8750 | 7277 | 1473 | | |
| | | 05-06 | 9500 | | 8750 | 7277 | 1473 | | |
| | | 06-18 | 9500 | | 8750 | 7362 | 1388 | | |
| | | 18-22 | 9500 | | 8750 | 7277 | 1473 | | |
| | | 22-24 | 9500 | | 8750 | 7277 | 1473 | | |
| | 2nd August 2018 to | 00-05 | 9500 | 750 | 8750 | 7297 | 1453 | | Revised due to (a)ICT-2 shutdown at Maheshwaram (b) Change in allocation to Telangana from WR plants |
| | | 05-06 | 9500 | | 8750 | 7297 | 1453 | | |
| | | 06-930 | 9300 | | 8550 | 7382 | 1168 | -200 | |
| | | 930-18 | 9500 | | 8750 | 7382 | 1368 | | |
| | | 18-22 | 9500 | | 8750 | 7297 | 1453 | | |
| | | 22-24 | 9500 | | 8750 | 7297 | 1453 | | |
| | 3rd August 2018 to 31st August 2018 | 00-05 | 9500 | 750 | 8750 | 7297 | 1453 | | Revised STOA margin due to change in allocation to Telangana from WR plants |
| | | 05-06 | 9500 | | 8750 | 7297 | 1453 | | |
| | | 06-18 | 9500 | | 8750 | 7382 | 1368 | | |
| | | 18-22 | 9500 | | 8750 | 7297 | 1453 | | |
| | | 22-24 | 9500 | | 8750 | 7297 | 1453 | | |

* 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 2018 to 31st August 2018 | 00-06 | 4500 | 700 | 3800 | 248 | 3552 | | |
| | | 06-18 | | | 3800 | 368 | 3432 | | |
| | | 18-24 | | | 3800 | 248 | 3552 | | |
| NER | 1st August 2018 to 2nd August 2018 | 00-08 | 1780 | 45 | 1735 | 0 | 1735 | | |
| | | 08-17 | 1320 | | 1275 | | 1275 | | |
| | | 17-23 | 1390 | | 1345 | | 1345 | | |
| | | 23-24 | 1320 | | 1275 | | 1275 | | |
| | 3rd August 2018 to 31st August 2018 | 00-17 | 1780 | 45 | 1735 | 0 | 1735 | | |
| | | 17-23 | 1850 | | 1805 | | 1805 | | |
| | | 23-24 | 1780 | | 1735 | | 1735 | | |
| WR | | | | | | | | | |
| | | | | | | | | | |
| SR * | 1st August 2018 to 31st August 2018 | 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)

| | | Applicable Revisions |
|-------------------|--|----------------------|
| Corridor | Constraint | |
| NR-WR | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak | Rev-0 to 3 |
| WR-NR | (n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida. | Rev- 0 to 3 |
| | Frequent outage of HVDC Champa - Kurukshetra poles | Rev-2 to 3 |
| NR-ER | (n-1) contingency of 400 kV Saranath-Pusauli | Rev-0 to 3 |
| ER-NR | 1. N-1 contingencies of 400 kv Mejia-Maithon A S/c 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/C | Rev-0 to 3 |
| WR-SR and ER-SR | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT | Rev-0 to 3 |
| | Low Voltage at Gazuwaka (East) Bus. | Rev-0 to 3 |
| ER-NER | a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW) | Rev-0 to 3 |
| 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 3 |
| W3 zone Injection | --- | Rev-0 to 3 |

Limiting Constraints (Simultaneous)

| | | Applicable Revisions | |
|--|--------|--|------------|
| NR | Import | 1. N-1 contingencies of 400 kv Mejia-Maithon A S/c 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/c | Rev-0 to 3 |
| | | (n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida. | Rev-0 to 3 |
| | | Frequent outage of HVDC Champa - Kurukshetra poles | Rev-2 to 3 |
| | Export | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. | Rev-0 to 3 |
| (n-1) contingency of 400 kV Saranath-Pusauli | | | |
| NER | Import | a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW) | Rev-0 to 3 |
| | 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 3 |
| SR | Import | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT | Rev-0 to 3 |
| | | Low Voltage at Gazuwaka (East) Bus. | Rev-0 to 3 |

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Total Transfer Capability for August 2018**

| Revision No | Date of Revision | Period of Revision | Reason for Revision/Comment | Corridor Affected |
|-------------|------------------|-----------------------------|--|-------------------------------------|
| 0 | 26th April 2018 | Whole Month | TTC declared considering restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra | WR-NR / Import of NR |
| 1 | 11th May 2018 | Whole Month | Revised STOA margins due to operationalization of 174 MW LTA from Teesta-III HEP to UP discoms w.e.f. 12th May 2018 | ER-NR/Import of NR |
| 2 | 30th July 2018 | Whole Month | Revised due to: (a) Frequent outage of Champa Kurukshetra single pole and (b) Restoration of power order on HVDC Mundra-Mahindragarh due to revival of generation at APL and CGPL plants. (c) Change in STOA margin due to change in MTOA | WR-NR/Import of NR |
| | | | Change in STOA margin due to change in LTA | ER-NR/Import of NR |
| | | | Revised STOA margins due to revocation of 500 MW LTA from Ind-bharat | ER-SR/Import of SR |
| | | 1st Aug to 2nd Aug 2018 | Revised due to day-time shutdown of 400/220 kV, 315 MVA ICT-1 at Misa and change in load - generation pattern of NER | ER-NER/NER-ER/Import /Export of NER |
| | | 3rd August to 31st Aug 2018 | Revised due to change in load - generation pattern of NER | ER-NER/NER-ER/Import /Export of NER |
| 3 | 31st July | 2nd August to 31st Aug 2018 | Revised STOA margin due to change in LTA/MTOA | WR-NR/Import of NR |
| | | 2nd August | ICT-2 shutdown at Maheshwaram | WR-SR/Import of SR |
| | | 2nd August to 31st Aug 2018 | Revised STOA margin due to change in allocation to Telangana from WR plants | WR-SR/Import of SR |
| | | 2nd August to 31st Aug 2018 | Revised STOA margins due to: (a) 40 MW LTA from DSPPL,Rajasthan to R Infra,Maharashtra and 5 MW LTA from Rajasthan to Chattisgarh (b) 40 MW allocation to MP from NR ISGS (c) 100 MW allocation to Chattisgarh from Kishanganga NR | NR-WR |

| ASSUMPTIONS IN BASECASE | | | | | |
|-------------------------|----------------------------|----------------|--------------------|-------------------|---------------|
| | | | | Month : August'18 | |
| 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 | 10474 | 10083 | 5458 | 5490 |
| 2 | Haryana | 8627 | 8371 | 2765 | 2765 |
| 3 | Rajasthan | 9370 | 9229 | 5305 | 5305 |
| 4 | Delhi | 5806 | 5811 | 1075 | 1075 |
| 5 | Uttar Pradesh | 15893 | 15467 | 9512 | 9565 |
| 6 | Uttarakhand | 2117 | 1935 | 1083 | 1157 |
| 7 | Himachal Pradesh | 1503 | 1386 | 1107 | 1128 |
| 8 | Jammu & Kashmir | 2799 | 1910 | 1514 | 1249 |
| 9 | Chandigarh | 344 | 232 | 0 | 0 |
| 10 | ISGS/IPPs | 24 | 24 | 20279 | 17370 |
| | Total NR | 56958 | 54448 | 48099 | 45105 |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 4087 | 2872 | 310 | 200 |
| 2 | Jharkhand | 1171 | 879 | 364 | 227 |
| 3 | Damodar Valley Corporation | 2925 | 2686 | 5264 | 4211 |
| 4 | Orissa | 4009 | 3198 | 2539 | 2192 |
| 5 | West Bengal | 8603 | 5753 | 5360 | 4272 |
| 6 | Sikkim | 84 | 85 | 0 | 0 |
| 7 | Bhutan | 212 | 220 | 1592 | 1526 |
| 8 | ISGS/IPPs | 265 | 258 | 11202 | 8851 |
| | Total ER | 21357 | 15950 | 26631 | 21479 |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 16834 | 14986 | 11885 | 11120 |
| 2 | Gujarat | 14542 | 11032 | 7379 | 7330 |
| 3 | Madhya Pradesh | 9729 | 6361 | 4011 | 2955 |
| 4 | Chattisgarh | 4171 | 3498 | 2999 | 2527 |
| 5 | Daman and Diu | 333 | 293 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 804 | 733 | 0 | 0 |
| 7 | Goa-WR | 516 | 357 | 0 | 0 |
| 8 | ISGS/IPPs | 4170 | 3731 | 39160 | 30544 |
| | Total WR | 51098 | 40992 | 65434 | 54475 |

| 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 | 8103 | 6215 | 5903 | 4018 |
| 2 | Telangana | 8305 | 6501 | 4447 | 3038 |
| 3 | Karnataka | 9352 | 7571 | 6477 | 4630 |
| 4 | Tamil Nadu | 14096 | 11471 | 8411 | 6721 |
| 5 | Kerala | 3673 | 2200 | 1564 | 263 |
| 6 | Pondy | 373 | 376 | 0 | 0 |
| 7 | Goa-SR | 84 | 85 | 0 | 0 |
| 8 | ISGS/IPPs | 0 | 0 | 11055 | 8993 |
| | Total SR | 43986 | 34419 | 37857 | 27664 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 123 | 74 | 0 | 0 |
| 2 | Assam | 1318 | 1168 | 307 | 196 |
| 3 | Manipur | 171 | 87 | 0 | 0 |
| 4 | Meghalaya | 267 | 195 | 313 | 228 |
| 5 | Mizoram | 99 | 68 | 8 | 8 |
| 6 | Nagaland | 129 | 80 | 22 | 16 |
| 7 | Tripura | 205 | 150 | 61 | 59 |
| 8 | ISGS/IPPs | 159 | 160 | 1963 | 1836 |
| | Total NER | 2471 | 1982 | 2674 | 2343 |
| | Total All India | 176311 | 148186 | 182392 | 152686 |