

**National Load Despatch Centre
Total Transfer Capability for December 2018**

Issue Date: 14th December 2018

Issue Time: 1700 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 December 2018 to 31st December 2018 | 00-06 | 2500 | 500 | 2000 | 195 | 1805 | | |
| | | 06-18 | | | | 250 | 1750 | | |
| | | 18-24 | | | | 195 | 1805 | | |
| WR-NR* | 1st December 2018 to 15th December 2018 | 00-24 | 12250 | 500 | 11750 | 9255 | 2495 | | |
| | | | 11300** | | 10800** | 8305** | 2495** | | |
| | 16th December 2018 to 19th December 2018 | 00-06' | 12250 | 500 | 11750 | 9255 | 2495 | | |
| | | 11300** | 10800** | | 8305** | 2495** | | | |
| | 06-24' | 11250 | 500 | 10750 | 9255 | 1495 | | -1000 | Revised due to shutdown of HVDC Mundra-Mohindergarh Pole-1 |
| 10300** | | 9800** | | 8305** | 1495** | | | | |
| 20th December 2018 to 31st December 2018 | 00-24 | 12250 | 500 | 11750 | 9255 | 2495 | | | |
| | | 11300** | | 10800** | 8305** | 2495** | | | |
| NR-ER* | 1st December 2018 to 31st December 2018 | 00-06 | 2000 | 200 | 1800 | 193 | 1607 | | |
| | | 06-18 | 2000 | | 1800 | 303 | 1497 | | |
| | | 18-24 | 2000 | | 1800 | 193 | 1607 | | |
| ER-NR* | 1st December 2018 to 31st December 2018 | 00-24 | 5250 | 300 | 4950 | 3867 | 1083 | | |
| W3-ER | 1st December 2018 to 31st December 2018 | 00-24 | No limit is being specified. | | | | | | |
| ER-W3 | 1st December 2018 to 31st December 2018 | 00-24 | No limit is being specified. | | | | | | |
| WR-SR | 1st December 2018 to 31st December 2018 | 00-05 | 5200 | 500 | 4700 | 4535 | 165 | | |
| | | 05-22 | 5200 | | 4700 | | 165 | | |
| | | 22-24 | 5200 | | 4700 | | 165 | | |
| SR-WR * | 1st December 2018 to 31st December 2018 | 00-24 | No limit is being Specified. | | | | | | |

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|--|--|---|---------------------------------|---|-------------------------------------|--|--|-------------------------------------|----------|--|
| ER-SR | 1st December 2018 to 31st December 2018 | 00-06 | 4800 | 250 | 4550 | 2762 | 1788 | | | |
| | | 06-18 | | | | 2847 | 1703 | | | |
| | | 18-24 | | | | 2762 | 1788 | | | |
| SR-ER * | 1st December 2018 to 31st December 2018 | 00-24 | No limit is being Specified. | | | | | | | |
| ER-NER | 1st December 2018 to 10th December 2018 | 00-17 | 1350 | 45 | 1305 | 225 | 1080 | | | |
| | | 17-23 | 1060 | | 1015 | | 790 | | | |
| | | 23-24 | 1350 | | 1305 | | 1080 | | | |
| | 11th December 2018 | 00-07 | 1350 | 45 | 1305 | 225 | 1080 | | | |
| | | 07-17 | 900 | | 855 | | 630 | | | |
| | | 17-23 | 670 | | 625 | | 400 | | | |
| | | 23-24 | 900 | | 855 | | 630 | | | |
| | 12th December 2018 to 31st December 2018 | 00-17 | 1350 | 45 | 1305 | 225 | 1080 | | | |
| | | 17-23 | 1060 | | 1015 | | 790 | | | |
| | | 23-24 | 1350 | | 1305 | | 1080 | | | |
| | NER-ER | 1st December 2018 to 10th December 2018 | 00-17 | 1880 | 45 | 1835 | 0 | 1835 | | |
| | | | 17-23 | 2070 | | 2025 | | 2025 | | |
| 23-24 | | | 1880 | 1835 | | 1835 | | | | |
| 11th December 2018 | | 00-07 | 1880 | 45 | 1835 | 0 | 1835 | | | |
| | | 07-17 | 1530 | | 1485 | | 1485 | | | |
| | | 17-23 | 1730 | | 1685 | | 1685 | | | |
| | | 23-24 | 1530 | | 1485 | | 1485 | | | |
| 12th December 2018 to 31st December 2018 | | 00-17 | 1880 | 45 | 1835 | 0 | 1835 | | | |
| | | 17-23 | 2070 | | 2025 | | 2025 | | | |
| | | 23-24 | 1880 | | 1835 | | 1835 | | | |
| W3 zone Injection | | 1st December 2018 to 31st December 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.

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 December 2018 to 15th December 2018 | 00-05 | 16350 | 800 | 15550 | 13147 | 2403 | | | |
| | | | 15400** | | 14600** | | 2403** | | | |
| | | 05-18 | 17500 | | 16700 | | 3553 | | | |
| | | | 16550** | | 15750** | | 12197** | | | 3553** |
| | 18-24 | 16350 | 15550 | | 2403 | | | | | |
| | | 15400** | 14600** | | 2403** | | | | | |
| | 16th December 2018 to 19th December 2018 | 00-05 | 16350 | | 800 | 15550 | 13147 | 2403 | | |
| | | | 15400** | | | 14600** | | 2403** | | |
| | | 05-06 | 17500 | 16700 | | 3553 | | | | |
| | | | 16550** | 15750** | | 12197** | | 3553** | | |
| | 06-18 | 16050 | 15250 | 2103 | | | | | | |
| | | 15100** | 14300** | 2103** | | -1450 | | | | |
| 18-24 | 15000 | 14200 | 1053 | | | | | | | |
| | 14050** | 13250** | 1053** | -1350 | | | | | | |
| 20th December 2018 to 31st December 2018 | 00-05 | 16350 | 800 | 15550 | 13147 | 2403 | | | | |
| | | 15400** | | 14600** | | 2403** | | | | |
| | 05-18 | 17500 | | 16700 | | 3553 | | | | |
| | | 16550** | | 15750** | | 12197** | | 3553** | | |
| 18-24 | 16350 | 15550 | | 2403 | | | | | | |
| | 15400** | 14600** | | 2403** | | | | | | |
| NER | 1st December 2018 to 10th December 2018 | 00-17 | | 1350 | 45 | 1305 | 225 | 1080 | | |
| | | 17-23 | | 1060 | | 1015 | | 790 | | |
| | | 23-24 | 1350 | 1305 | | 1080 | | | | |
| | 11th December 2018 | 00-07 | 1350 | 45 | 1305 | 225 | 1080 | | | |
| | | 07-17 | 900 | | 855 | | 630 | | | |
| | | 17-23 | 670 | | 625 | | 400 | | | |
| | | 23-24 | 900 | | 855 | | 630 | | | |
| | 12th December 2018 to 31st December 2018 | 00-17 | 1350 | 45 | 1305 | 225 | 1080 | | | |
| | | 17-23 | 1060 | | 1015 | | 790 | | | |
| 23-24 | | 1350 | 1305 | | 1080 | | | | | |
| WR | | | | | | | | | | |
| SR | 1st December 2018 to 31st December 2018 | 06-18 | 10000 | 750 | 9250 | 7297 | 1953 | | | |
| | | 18-22 | 10000 | | 9250 | 7382 | 1868 | | | |
| | | 22-24 | 10000 | | 9250 | 7297 | 1953 | | | |

* 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 December 2018 to 31st December 2018 | 00-06 | 4500 | 700 | 3800 | 388 | 3412 | | | |
| | | 06-18 | | | 3800 | 553 | 3247 | | | |
| | | 18-24 | | | 3800 | 388 | 3412 | | | |
| NER | 1st December 2018 to 10th December 2018 | 00-17 | 1880 | 45 | 1835 | 0 | 1835 | | | |
| | | 17-23 | 2070 | | 2025 | | 2025 | | | |
| | | 23-24 | 1880 | | 1835 | | 1835 | | | |
| | 11th December 2018 | 00-07 | 1880 | 45 | 1835 | 0 | 1835 | | | |
| | | 07-17 | 1530 | | 1485 | | 1485 | | | |
| | | 17-23 | 1730 | | 1685 | | 1685 | | | |
| | | 23-24 | 1530 | | 1485 | | 1485 | | | |
| | 12th December 2018 to 31st December 2018 | 00-17 | 1880 | 45 | 1835 | 0 | 1835 | | | |
| | | 17-23 | 2070 | | 2025 | | 2025 | | | |
| | | 23-24 | 1880 | | 1835 | | 1835 | | | |
| | WR | | | | | | | | | |
| | | | | | | | | | | |
| SR * | 1st December 2018 to 31st December 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 2 |
| | (n-1) Contingency of 765/400kV ICT-1 at Agra leads to 1500 MW loading on other 765kV ICT at Agra. | Rev-3 |
| | Frequent tripping of HVDC Champa - Kurukshetra poles | Rev-0 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 |
| | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT | Rev-1 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 2 |
| | | (n-1) Contingency of 765/400kV ICT-1 at Agra leads to 1500 MW loading on other 765kV ICT at Agra. | Rev-3 |
| | | Frequent tripping of HVDC Champa - Kurukshetra poles | Rev-0 to 3 |
| | Export | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli | Rev-0 to 3 |
| 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 |
| | | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT | Rev-1 to 3 |
| | | Low Voltage at Gazuwaka (East) Bus. | Rev-0 to 3 |

**National Load Despatch Centre
Total Transfer Capability for December 2018**

| Revision No | Date of Revision | Period of Revision | Reason for Revision/Comment | Corridor Affected |
|--------------------|-------------------------|--------------------------------|--|--|
| 1 | 26th Nov 2018 | Whole month | (i) Revised TTC due to change in: (a) load generation balance and network conditions and (b) change in pattern of inter-regional flow towards NR (ii) Revised STOA margins due to operationalization of : (a) 50 MW LTA from Green Infra Energy Limited to Delhi, (b) 99.9 MW LTA from Green Infra Energy Limited to UP (c) 20 MW LTA from OKWPL to UP discom | WR-NR/ Import of NR |
| | | | Revised considering (a) recent commissioning of 765 kV Jharsuguda - Dharamjaygarh 3&4, 765 kV Gadarwara - Warora PS D/C, 765 kV Warora PS - Parli D/C, LILO of Kurnool - Thirvualam D/C at Cuddapah, 400 kV Cuddapah-Hindupur D/C, Salem PS - Madhugiri PS S/C, 765 kV Dharamjaigarh - Champa S/C, 765 kV Champa-Raigarh S/C and 765 kV Sipat-Bilaspur ckt-3 and some other 400 kV lines | WR-SR/ER-SR/ Import of SR |
| 2 | 10th Dec 2018 | 11th Dec 2018 | Revised TTC due to day time shutdown of 400/220kV 315MVA ICT-2 at Misa(PG) for annual maintenance | ER-NER/NER-ER/ Import/Export of NER |
| 3 | 14th Dec 2018 | 16th Dec 2018 to 19th Dec 2018 | Revised due to shutdown of HVDC Mundra-Mohindergarh Pole-1 | WR-NR/ Import of NR |

| ASSUMPTIONS IN BASECASE | | | | | |
|-------------------------|----------------------------|----------------|--------------------|---------------------|---------------|
| | | | | Month : December'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 | 7121 | 4573 | 4602 | 4217 |
| 2 | Haryana | 7810 | 5484 | 2002 | 2002 |
| 3 | Rajasthan | 11766 | 12065 | 7031 | 6910 |
| 4 | Delhi | 4670 | 2505 | 1266 | 1266 |
| 5 | Uttar Pradesh | 14350 | 14457 | 7408 | 7224 |
| 6 | Uttarakhand | 2083 | 1622 | 946 | 685 |
| 7 | Himachal Pradesh | 1554 | 739 | 224 | 157 |
| 8 | Jammu & Kashmir | 2098 | 1610 | 374 | 306 |
| 9 | Chandigarh | 258 | 130 | 0 | 0 |
| 10 | ISGS/IPPs | 54 | 53 | 18132 | 10730 |
| | Total NR | 51764 | 43237 | 41985 | 33497 |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 3453 | 2410 | 247 | 177 |
| 2 | Jharkhand | 975 | 812 | 360 | 223 |
| 3 | Damodar Valley Corporation | 2946 | 2756 | 5213 | 4002 |
| 4 | Orissa | 3715 | 2991 | 2344 | 2044 |
| 5 | West Bengal | 7102 | 5253 | 5189 | 4516 |
| 6 | Sikkim | 76 | 82 | 0 | 0 |
| 7 | Bhutan | 202 | 208 | 643 | 534 |
| 8 | ISGS/IPPs | 692 | 643 | 12290 | 9301 |
| | Total ER | 19160 | 15155 | 26285 | 20796 |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 18572 | 12992 | 13651 | 8562 |
| 2 | Gujarat | 13543 | 11084 | 8764 | 8072 |
| 3 | Madhya Pradesh | 12461 | 8848 | 4689 | 4821 |
| 4 | Chattisgarh | 3918 | 2719 | 2751 | 2152 |
| 5 | Daman and Diu | 329 | 263 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 815 | 686 | 0 | 0 |
| 7 | Goa-WR | 527 | 325 | 0 | 0 |
| 8 | ISGS/IPPs | 4485 | 3475 | 38213 | 30169 |
| | Total WR | 54650 | 40392 | 68068 | 53776 |

| 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 | 8873 | 6394 | 6225 | 4712 |
| 2 | Telangana | 10073 | 8339 | 4311 | 3808 |
| 3 | Karnataka | 9928 | 6077 | 6500 | 4842 |
| 4 | Tamil Nadu | 13905 | 11359 | 6899 | 5799 |
| 5 | Kerala | 3745 | 2119 | 1524 | 153 |
| 6 | Pondy | 340 | 368 | 0 | 0 |
| 7 | Goa-SR | 77 | 83 | 0 | 0 |
| 8 | ISGS/IPPs | 0 | 0 | 16984 | 10353 |
| | Total SR | 46942 | 34739 | 42443 | 29668 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 141 | 88 | 0 | 0 |
| 2 | Assam | 1235 | 1119 | 185 | 142 |
| 3 | Manipur | 179 | 96 | 0 | 0 |
| 4 | Meghalaya | 357 | 230 | 169 | 91 |
| 5 | Mizoram | 98 | 66 | 8 | 8 |
| 6 | Nagaland | 121 | 77 | 16 | 0 |
| 7 | Tripura | 194 | 120 | 74 | 74 |
| 8 | ISGS/IPPs | 156 | 96 | 2042 | 1566 |
| | Total NER | 2481 | 1893 | 2494 | 1881 |
| | Total All India | 174998 | 135416 | 181276 | 139618 |