

National Load Despatch Centre
Total Transfer Capability for May 2018

Issue Date: 23rd March 2018

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 May 2018 to 31st May 2018 | 00-06 | 2500 | 500 | 2000 | 55 | 1945 | | |
| | | 06-18 | | | | 65 | 1935 | | |
| | | 18-24 | | | | 55 | 1945 | | |
| WR-NR* | 1st May 2018 to 31st May 2018 | 00-24 | 10050 | 500 | 9550 | 9280 | 270 | | |
| NR-ER* | 1st May 2018 to 31st May 2018 | 00-06 | 2000 | 200 | 1800 | 193 | 1607 | | |
| | | 06-18 | 2000 | | 1800 | 303 | 1497 | | |
| | | 18-24 | 2000 | | 1800 | 193 | 1607 | | |
| ER-NR* | 1st May 2018 to 31st May 2018 | 00-24 | 4500 | 300 | 4200 | 3039 | 1161 | | |
| W3-ER | 1st May 2018 to 31st May 2018 | 00-24 | No limit is being specified. | | | | | | |
| ER-W3 | 1st May 2018 to 31st May 2018 | 00-24 | No limit is being specified. | | | | | | |
| WR-SR | 1st May 2018 to 31st May 2018 | 00-05 | 5150 | 500 | 4650 | 4415 | 235 | -550 | 1. Revised due to commissioning/ reconfiguration of following lines: (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3 (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2 (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)- ckt 1 & 2 moved to 400 kV Vemagiri (PG) 2. With the commissioning/ reconfiguration of above lines, TTC/ATC for Import of SR remains unchanged however the relative sensitivity of ER-SR and WR-SR to net import of SR has changed. The limiting constraint which was earlier (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C and (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C has also shifted to n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG). |
| | | 05-22 | 5150 | | 4650 | | 235 | -550 | |
| | | 22-24 | 5150 | | 4650 | | 235 | -550 | |
| SR-WR * | 1st May 2018 to 31st May 2018 | 00-24 | No limit is being Specified. | | | | | | |

National Load Despatch Centre
Total Transfer Capability for May 2018

Issue Date: 23rd March 2018

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 | | |
|---|-------------------------------|-------------------|---|--------------------|-------------------------------------|--|--|-------------------------------------|---|------|-----|
| ER-SR | 1st May 2018 to 31st May 2018 | 00-06 | 4350 | 250 | 4100 | 3262 | 838 | 550 | <p>1. Revised due to commissioning/ reconfiguration of following lines: (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3 (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2 (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)- ckt 1 & 2 moved to 400 kV Vemagiri (PG) 2. With the commissioning/ reconfiguration of above lines, TTC/ATC for Import of SR remains unchanged however the relative sensitivity of ER-SR and WR-SR to net import of SR has changed. The limiting constraint which was earlier (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C and (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C has also shifted to n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG).</p> | | |
| | | 06-18 | | | | | | | | 3347 | 753 |
| | | 18-24 | | | | | | | | 3262 | 838 |
| SR-ER * | 1st May 2018 to 31st May 2018 | 00-24 | No limit is being Specified. | | | | | | | | |
| ER-NER | 1st May 2018 to 31st May 2018 | 00-17 | 1250 | 45 | 1205 | 225 | 980 | | | | |
| | | 17-23 | 1110 | | 1065 | | 840 | | | | |
| | | 23-24 | 1250 | | 1205 | | 980 | | | | |
| NER-ER | 1st May 2018 to 31st May 2018 | 00-17 | 1760 | 45 | 1715 | 0 | 1715 | | | | |
| | | 17-23 | 1780 | | 1735 | | 1735 | | | | |
| | | 23-24 | 1760 | | 1715 | | 1715 | | | | |
| W3 zone Injection | 1st May 2018 to 31st May 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. | | | | | | | | | | | |

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

Issue Date: 23rd March 2018

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

* 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).

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 May 2018 to 31st May 2018 | 00-05 | 14350 | 800 | 13550 | 12319 | 1231 | | |
| | | 05-08 | 14350 | | 13550 | | 1231 | | |
| | | 08-18 | 14350 | | 13550 | | 1231 | | |
| | | 18-23 | 13050 | | 12250 | | 0 | | |
| | | 23-24 | 14350 | | 13550 | | 1231 | | |
| NER | 1st May 2018 to 31st May 2018 | 00-17 | 1250 | 45 | 1205 | 225 | 980 | | |
| | | 17-23 | 1110 | | 1065 | | 840 | | |
| | | 23-24 | 1250 | | 1205 | | 980 | | |
| WR | | | | | | | | | |
| SR | 1st May 2018 to 31st May 2018 | 00-05 | 9500 | 750 | 8750 | 7677 | 1073 | | |
| | | 05-06 | 9500 | | 8750 | 7677 | 1073 | | |
| | | 06-18 | 9500 | | 8750 | 7762 | 988 | | |
| | | 18-22 | 9500 | | 8750 | 7677 | 1073 | | |
| | | 22-24 | 9500 | | 8750 | 7677 | 1073 | | |

* 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).

* 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 May 2018 to 31st May 2018 | 00-06 | 4500 | 700 | 3800 | 248 | 3552 | | |
| | | 06-18 | | | 3800 | 368 | 3432 | | |
| | | 18-24 | 4500 | | 3800 | 248 | 3552 | | |
| NER | 1st May 2018 to 31st May 2018 | 00-17 | 1760 | 45 | 1715 | 0 | 1715 | | |
| | | 17-23 | 1780 | | 1735 | | 1735 | | |
| | | 23-24 | 1760 | | 1715 | | 1715 | | |
| WR | | | | | | | | | |
| | | | | | | | | | |
| SR * | 1st May 2018 to 31st May 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 2 |
| WR-NR | (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. | Rev-0 to 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 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/C | Rev-0 to 2 |
| WR-SR and ER-SR | a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service) b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service) | Rev-0 to 1 |
| | Low Voltage at Gazuwaka (East) Bus. 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 Rev-2 |
| 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 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 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/c (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. |
| | Export | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (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) |
| | Export | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa |
| SR | Import | a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service) b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service) |
| | | Low Voltage at Gazuwaka (East) Bus. |
| | | n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT |

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

| Revision No | Date of Revision | Period of Revision | Reason for Revision | Corridor Affected |
|--------------------|-------------------------|---------------------------|--|--------------------------|
| 1 | 26th Feb 2018 | Whole Month | Revised STOA margin due to (a) 50 MW allocation to Karnataka from NTPC WR plants (b) 5 MW allocation to Telangana from NTPC WR plants | WR-SR/Import of SR |
| | | | Revised STOA margins due to change in Talcher Stg-II DC | ER-SR/Import of SR |
| 2 | 23rd March 2018 | Whole Month | <p>1. Revised due to commissioning/ reconfiguration of following lines:</p> <p>(a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3</p> <p>(b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2</p> <p>(c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)-ckt 1 & 2 moved to 400 kV Vemagiri (PG)</p> <p>2. With the commissioning/ reconfiguration of above lines, TTC/ATC for Import of SR remains unchanged however the relative sensitivity of ER-SR and WR-SR to net import of SR has changed. The limiting constraint which was earlier (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C and (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C has also shifted to n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG).</p> | ER-SR/WR-SR |

| ASSUMPTIONS IN BASECASE | | | | | |
|-------------------------|----------------------------|----------------|--------------------|----------------|---------------|
| | | | | Month : May'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 | 8479 | 8228 | 4059 | 4077 |
| 2 | Haryana | 7777 | 7660 | 2139 | 2139 |
| 3 | Rajasthan | 10146 | 10147 | 6390 | 6337 |
| 4 | Delhi | 5760 | 5526 | 691 | 691 |
| 5 | Uttar Pradesh | 16367 | 16149 | 9969 | 9915 |
| 6 | Uttarakhand | 1886 | 1687 | 912 | 833 |
| 7 | Himachal Pradesh | 1484 | 1329 | 589 | 530 |
| 8 | Jammu & Kashmir | 2851 | 1640 | 1079 | 1071 |
| 9 | Chandigarh | 304 | 232 | 0 | 0 |
| 10 | ISGS/IPPs | 25 | 25 | 20090 | 17008 |
| | Total NR | 55078 | 52624 | 45919 | 42602 |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 3971 | 2726 | 310 | 181 |
| 2 | Jharkhand | 1187 | 871 | 384 | 210 |
| 3 | Damodar Valley Corporation | 2952 | 2684 | 4767 | 4014 |
| 4 | Orissa | 3930 | 3132 | 3005 | 2282 |
| 5 | West Bengal | 7664 | 5659 | 5432 | 4259 |
| 6 | Sikkim | 85 | 50 | 0 | 0 |
| 7 | Bhutan | 212 | 219 | 614 | 582 |
| 8 | ISGS/IPPs | 266 | 260 | 11286 | 9307 |
| | Total ER | 20265 | 15602 | 25799 | 20836 |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 18958 | 18097 | 11630 | 10987 |
| 2 | Gujarat | 14011 | 14396 | 8909 | 8909 |
| 3 | Madhya Pradesh | 7898 | 7788 | 2992 | 2992 |
| 4 | Chattisgarh | 3443 | 3568 | 2270 | 2740 |
| 5 | Daman and Diu | 304 | 293 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 762 | 742 | 0 | 0 |
| 7 | Goa-WR | 472 | 416 | 0 | 0 |
| 8 | ISGS/IPPs | 3852 | 3656 | 39424 | 39424 |
| | Total WR | 49700 | 48955 | 65225 | 65052 |

| 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 | 8600 | 8600 | 5740 | 4856 |
| 2 | Telangana | 7546 | 6122 | 3759 | 3063 |
| 3 | Karnataka | 9394 | 8077 | 4623 | 4966 |
| 4 | Tamil Nadu | 15200 | 13500 | 8660 | 6510 |
| 5 | Kerala | 4000 | 2400 | 1474 | 120 |
| 6 | Pondy | 372 | 372 | 0 | 0 |
| 7 | Goa-SR | 84 | 89 | 0 | 0 |
| 8 | ISGS/IPPs | 0 | 0 | 15094 | 13476 |
| | Total SR | 45196 | 39161 | 39350 | 32991 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 133 | 74 | 0 | 0 |
| 2 | Assam | 1227 | 964 | 245 | 150 |
| 3 | Manipur | 168 | 87 | 0 | 0 |
| 4 | Meghalaya | 289 | 195 | 223 | 157 |
| 5 | Mizoram | 101 | 69 | 8 | 8 |
| 6 | Nagaland | 117 | 82 | 16 | 8 |
| 7 | Tripura | 240 | 158 | 78 | 78 |
| 8 | ISGS/IPPs | 140 | 140 | 1955 | 1576 |
| | Total NER | 2415 | 1769 | 2525 | 1977 |
| | Total All India | 173094 | 158505 | 179486 | 164078 |