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

Issue Date: 26th Febuary 2018 Issue Time: 1800 hrs Revision No. 1

| 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 | 5700 | 500 | 5200 | 4415 | 785 | | 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 |
| | | 05-22 | 5700 | | 5200 | | 785 | | |
| | | 22-24 | 5700 | | 5200 | | 785 | | |
| **SR-WR *** | 1st May 2018 to 31st May 2018 | 00-24 | No limit is being Specified. | | | | | | |
| | | | | | | | | | |
| **ER-SR** | 1st May 2018 to 31st May 2018 | 00-06 | 3800 | 250 | 3550 | 3262 | 288 | | Revised STOA margins due to change in Talcher Stg-II DC |
| | | 06-18 | | | | 3347 | 203 | | |
| | | 18-24 | | | | 3262 | 288 | | |
| **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 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.**

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

* 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) 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 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 | | Revised STOA margin (i) due to (a) 50 MW allocation to Karnataka from NTPC WR plants (b) 5 MW allocation to Telangana from NTPC WR plants (ii) due to change in Talcher Stg-II DC |
| | | 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)

| Corridor | Constraint | Applicable Revisions |
|---|---|---|
| **NR-WR** | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak | All |
| **WR-NR** | (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. | All |
| **NR-ER** | (n-1) contingency of 400 kV Saranath-Pusauli | All |
| **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 | All |
| **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)<br>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) | All |
| | Low Voltage at Gazuwaka (East) Bus. | All |
| **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) | All |
| **NER-ER** | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa | All |
| **W3 zone Injection** | --- | All |

## 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 | All |
| | | (n-1) Contingnecy 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. | All |
| | | (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) | All |
| | **Export** | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa | All |
| **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)<br>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) | All |
| | | Low Voltage at Gazuwaka (East) Bus. | All |

# 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 |

| 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 |