## National Load Despatch Centre
### Total Transfer Capability for September 2016

Issue Date: 12/9/2016 Issue Time: 1100 hrs Revision No. 4

| 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 Sep 2016 to 30th Sep 2016 | 00-24 | 2500 | 500 | 2000 | 55 | 1945 | | |
| **WR-NR*** | 1st Sep 2016 to 30th Sep 2016 | 00-24 | 6800 | 500 | 6300 | 6170 | 130 | | |
| **NR-ER*** | 1st Sep 2016 to 30th Sep 2016 | 00-06 | 2000 | 200 | 1800 | 93 | 1707 | | |
| | | 06-18' | 2000 | | 1800 | 158 | 1642 | | |
| | | 18-24 | 2000 | | 1800 | 93 | 1707 | | |
| **ER-NR*** | 1st Sep 2016 to 30th Sep 2016 | 00-24 | 4400 | 300 | 4100 | 2531 | 1569 | | |
| **W3-ER**[$] | 1st Sep 2016 to 30th Sep 2016 | 00-24 | No limit is being specified. | | | | | | |
| **ER-W3** | 1st Sep 2016 to 30th Sep 2016 | 00-24 | No limit is being specified. | | | | | | |
| **WR-SR** | 1st Sep 2016 to 30th Sep 2016 | 00-24 | 4000 | 750 | 3250 | 3250 | 0 | | |
| **SR-WR *** | 1st Sep 2016 to 30th Sep 2016 | 00-24 | No limit is being Specified. | | | | | | |
| **ER-SR** | 1st Sep 2016 to 13th Sep 2016 | 00-06 | 2650 | 0 | 2650 | 2142 | 508 | | |
| | | 06-18' | | | | 2207 | 443 | | |
| | | 18-24 | | | | 2142 | 508 | | |
| | 14th Sep 2016 to 23rd Sep 2016 | 00-06 | 2650 | 0 | 2650 | 2142 | 508 | | STOA margin revised due to extended outage of Talcher Stage-2 Unit -6. |
| | | 06-18' | | | | 2207 | 443 | | |
| | | 18-24 | | | | 2142 | 508 | | |
| | 24th Sep 2016 to 30th Sep 2016 | 00-06 | 2650 | 0 | 2650 | 2585 | 65 | | |
| | | 06-18' | | | | 2650 | 0 | | |
| | | 18-24 | | | | 2585 | 65 | | |
| **SR-ER *** | 1st Sep 2016 to 30th Sep 2016 | 00-24 | No limit is being Specified. | | | | | | |
| **ER-NER** | 1st Sep 2016 to 30th Sep 2016 | 00-17 | 1030 | 45 | 985 | 210 | 775 | | |
| | | 17-23 | 940 | | 895 | | 685 | | |
| | | 23-24 | 1030 | | 985 | | 775 | | |
| **NER-ER** | 1st Sep 2016 to 30th Sep 2016 | 00-17 | 1530 | 45 | 1485 | 0 | 1485 | | |
| | | 17-23 | 1500 | | 1455 | | 1455 | | |
| | | 23-24 | 1530 | | 1485 | | 1485 | | |
| **W3 zone Injection** | 1st Sep 2016 to 30th Sep 2016 | 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 corridor, 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).

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

1) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry
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.

### Limiting Constraints

| Corridor | Constraint |
|---|---|
| NR-WR | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak |
| WR-NR | 1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.<br>2.High Loading of 400kV Singrauli-Anpara S/C. |
| NR-ER | (n-1) contingency of 400 kV Saranath-Pusauli |
| ER-NR | n-1 contingency of one cicuit of 400 kV Biharsharift- Lakhisarai leads to high loading on the other cicuit |
| WR-SR & ER-SR | (n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit |
| | Low Voltage at Gazuwaka (East) Bus. |
| ER-NER | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar |
| NER-ER | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa |
| W3 zone Injection | --- |

**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 Sep 2016 to 30th Sep 2016 | 00-18 | 10800 | 800 | 10000 | 8701 | 1299 | | |
| | | 18-23' | 10000 | | 9200 | | 499 | | |
| | | 23-24 | 10800 | | 10000 | | 1299 | | |
| **NER** | 1st Sep 2016 to 30th Sep 2016 | 00-17<br>23-24 | 1030 | 45 | 985 | 210 | 775 | | |
| | | 17-23 | 940 | | 895 | | 685 | | |
| **WR** | | | | | | | | | |
| | | | | | | | | | |
| **SR** | 1st Sep 2016 to 13th Sep 2016 | 00-06 | 6650 | 750 | 5900 | 5392 | 508 | | |
| | | 06-18' | 6650 | | 5900 | 5457 | 443 | | |
| | | 18-24 | 6650 | | 5900 | 5392 | 508 | | |
| | 14th Sep 2016 to 23rd Sep 2016 | 00-06 | 6650 | 750 | 5900 | 5392 | 508 | | STOA margin revised due to extended outage of Talcher Stage-2 Unit -6. |
| | | 06-18' | 6650 | | 5900 | 5457 | 443 | | |
| | | 18-24 | 6650 | | 5900 | 5392 | 508 | | |
| | 24th Sep 2016 to 30th Sep 2016 | 00-06 | 6650 | 750 | 5900 | 5835 | 65 | | |
| | | 06-18' | 6650 | | 5900 | 5900 | 0 | | |
| | | 18-24 | 6650 | | 5900 | 5835 | 65 | | |

* 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 Sep 2016 to 30th Sep 2016 | 00-06 | 4500 | 700 | 3800 | 148 | 3652 | | |
| | | 06-18' | | | 3800 | 213 | 3587 | | |
| | | 18-24 | 4500 | | 3800 | 148 | 3652 | | |
| **NER** | 1st Sep 2016 to 30th Sep 2016 | 00-17 23-24 | 1530 | 45 | 1485 | 0 | 1485 | | |
| | | 17-23 | 1500 | | 1455 | | 1455 | | |
| **WR** | | | | | | | | | |
| | | | | | | | | | |
| **SR *** | 1st Sep 2016 to 30th Sep 2016 | 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

| | | |
|---|---|---|
| **NR** | **Import** | (n-1) contingency of one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit |
| | | 1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.<br>2.High Loading of 400kV Singrauli-Anpara S/C. |
| | **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** | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa. n-1 cntingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar |
| | **Export** | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa. |
| **SR** | **Import** | (n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit |
| | | Low Voltage at Gazuwaka (East) Bus. |

# National Load Despatch Centre
# Total Transfer Capability for September 2016

| Revision No | Date of Revision | Period of Revision | Reason for Revision | Corridor Affected |
|---|---|---|---|---|
| 1 | 8/1/2016 | Whole month | STOA margin revised due to change in LTA/MTOA allocation | NR-ER/ NR-WR/ Simulaneous Export of NR |
| | | | Revised due to commissioning of 400 kV Ranchi-Chandawa-Gaya D/C, 765kV Varanasi-Kanpur D/C, 765kV Kanpur-Jhatikara S/C , 400kV Kanpur (GIS)-Kanpur D/C and conisdering total gen at Kawai, Chhabra, Kalisindh as 2500 MW and considering the present inter regional flow pattern | WR-NR/ Simultaneous import of NR |
| 2 | 26/8/2016 | 01-08-16 to 13-08-16 | STOA margin revised due to outage of Talcher Stage-2 Unit -6 approved in 121st OCC of SRPC. | ER-SR/ Import of SR |
| 3 | 29/8/2016 | Whole month | Revised considering the present Inter-Regional flow pattern. | WR-NR/ Import of NR |
| 4 | 12/9/2016 | 14/9/2016 to 23/9/2016 | STOA margin revised due to extended outage of Talcher Stage-2 Unit -6. | ER-SR/ Import of SR |

| ASSUMPTIONS IN BASECASE | | | | | |
|---|---|---|---|---|---|
| | | | | Month : September '16 | |
| 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 | 9400 | 8059 | 5466 | 5258 |
| 2 | Haryana | 7798 | 7260 | 2610 | 2610 |
| 3 | Rajasthan | 10027 | 10099 | 6333 | 6382 |
| 4 | Delhi | 4844 | 4498 | 962 | 962 |
| 5 | Uttar Pradesh | 13618 | 12577 | 7131 | 7179 |
| 6 | Uttarakhand | 1688 | 1250 | 804 | 722 |
| 7 | Himachal Pradesh | 1184 | 901 | 815 | 850 |
| 8 | Jammu & Kashmir | 2246 | 1356 | 841 | 807 |
| 9 | Chandigarh | 286 | 191 | 0 | 0 |
| 10 | ISGS/IPPs | 0 | 0 | 20482 | 15017 |
| | Total NR | 51091 | 46191 | 45444 | 39787 |
| | | | | | |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 3260 | 2746 | 200 | 110 |
| 2 | Jharkhand | 1023 | 883 | 400 | 350 |
| 3 | Damodar Valley Corporation | 2582 | 2207 | 3400 | 2871 |
| 4 | Orissa | 3708 | 2852 | 2929 | 2000 |
| 5 | West Bengal | 7601 | 6081 | 4768 | 3830 |
| 6 | Sikkim | 93 | 49 | 0 | 0 |
| 7 | Bhutan | 215 | 215 | 1504 | 1472 |
| 8 | ISGS/IPPs | 415 | 419 | 9645 | 9015 |
| | Total ER | 18897 | 15452 | 22846 | 19647 |
| | | | | | |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 20103 | 13051 | 13552 | 9451 |
| 2 | Gujarat | 14488 | 8693 | 11414 | 5676 |
| 3 | Madhya Pradesh | 8537 | 5486 | 4790 | 2285 |
| 4 | Chattisgarh | 4088 | 2975 | 3236 | 1989 |
| 5 | Daman and Diu | 314 | 229 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 680 | 626 | 0 | 0 |
| 7 | Goa-WR | 487 | 221 | 0 | 0 |
| 8 | ISGS/IPPs | 902 | 904 | 28078 | 22617 |
| | Total WR | 49599 | 32185 | 61071 | 42019 |

| | | | | | |
|---|---|---|---|---|---|
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 7073 | 5389 | 6385 | 5627 |
| 2 | Telangana | 9564 | 7551 | 4263 | 2964 |
| 3 | Karnataka | 9054 | 7496 | 6966 | 5130 |
| 4 | Tamil Nadu | 14003 | 12691 | 7036 | 5417 |
| 5 | Kerala | 3973 | 2663 | 1643 | 638 |
| 6 | Pondy | 391 | 327 | 0 | 0 |
| 7 | Goa-SR | 89 | 89 | 0 | 0 |
| 8 | ISGS/IPPs | 28 | 28 | 14187 | 11953 |
| | Total SR | 44175 | 36234 | 40480 | 31729 |
| | | | | | |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 130 | 102 | 0 | 0 |
| 2 | Assam | 1228 | 1007 | 275 | 225 |
| 3 | Manipur | 164 | 76 | 0 | 0 |
| 4 | Meghalaya | 279 | 206 | 300 | 243 |
| 5 | Mizoram | 93 | 63 | 8 | 0 |
| 6 | Nagaland | 120 | 84 | 24 | 16 |
| 7 | Tripura | 234 | 148 | 91 | 91 |
| 8 | ISGS/IPPs | 100 | 60 | 1869 | 1763 |
| | Total NER | 2348 | 1746 | 2567 | 2338 |
| | | | | | |
| | Total All India | 166356 | 132052 | 173941 | 136992 |