## National Load Despatch Centre
### Total Transfer Capability for September 2015

Issue Date: 25/06/2015 Issue Time: 1200 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 Sep 2015 to 30th Sep 2015 | 00-24 | 2500 | 500 | 2000 | 706 | 1294 | | |
| **WR-NR*** | 1st Sep 2015 to 30th Sep 2015 | 00-24 | 5100 | 500 | 4600 | 5277 | 0 | | |
| **NR-ER*** | 1st Sep 2015 to 30th Sep 2015 | 00-06 | 2000 | 200 | 1800 | 293 | 1507 | | |
| | | 06-18' | 2000 | | 1800 | 358 | 1442 | | |
| | | 18-24 | 2000 | | 1800 | 293 | 1507 | | |
| **ER-NR*&** | 1st Sep 2015 to 30th Sep 2015 | 00-24 | 4800 | 300 | 4500 | 2431 | 2069 | | |
| **W3-ER$** | 1st Sep 2015 to 30th Sep 2015 | 00-24 | No limit is being specified. No Re-routing is allowed via W3-ER-NR. | | | | | | |
| **ER-W3** | 1st Sep 2015 to 30th Sep 2015 | 00-24 | 1000 | 300 | 700 | 874 | 0 | | |
| **WR-SR** | 1st Sep 2015 to 30th Sep 2015 | 00-24 | 2300 | 750 | 1550 | 1550 | 0 | | |
| **SR-WR *** | 1st Sep 2015 to 30th Sep 2015 | 00-24 | No limit is being Specified. | | | | | | |
| **ER-SR** | 1st Sep 2015 to 30th Sep 2015 | 00-06 18-24 | 2650 | 0 | 2650 | 2385 | 265 | | |
| | | 06-18' | | | | 2450 | 200 | | |
| **SR-ER *** | 1st Sep 2015 to 30th Sep 2015 | 00-24 | No limit is being Specified. | | | | | | |
| **S1-S2 (Rev-0)** | 1st Sep 2015 to 7th Sep 2015 | 00-24 | 3565 | 350 | 3215 | 2573 | 642 | | |
| | 8th Sep 2015 to 14th Sep 2015 | 00-24 | 3565 | 350 | 3215 | 2484 | 731 | | |
| | 15th Sep 2015 to 21st Sep 2015 | 00-24 | 3565 | 350 | 3215 | 2561 | 654 | | |
| | 22nd Sep 2015 to 25th Sep 2015 | 00-24 | 3565 | 350 | 3215 | 2612 | 603 | | |
| | 26th Sep 2015 to 27th Sep 2015 | 00-24 | 3565 | 350 | 3215 | 2691 | 524 | | |
| | 28th Sep 2015 to 30th Sep 2015 | 00-24 | 3565 | 350 | 3215 | 2602 | 613 | | |
| **ER-NER** | 1st Sep 2015 to 30th Sep 2015 | 00-17 23-24 | 1200 | 40 | 1160 | 210 | 950 | | |
| | | 17-23 | 1250 | | 1210 | | 1000 | | |
| **NER-ER** | 1st Sep 2015 to 30th Sep 2015 | 00-17 23-24 | 1220 | 30 | 1190 | 0 | 1190 | | |
| | | 17-23 | 1300 | 40 | 1260 | | 1260 | | |
| **W3 zone Injection** | 1st Sep 2015 to 30th Sep 2015 | 00-17 23-24 | 9400 | 200 | 9200 | 7236 | 1964 | | |
| | | 17-23 | 9900 | | 9700 | | 2464 | | |

* 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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|---|---|---|---|---|---|---|---|---|---|

**S1-S2 Corridor:** Any revision in S1-S2 TTC/ATC from Rev-0, would be uploaded under Intra-Regional Section on NLDC website.

**$** As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.
& ER-NR TTC is independent of WR-NR corridor flow

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

# 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** | High Loading of 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda). |
| **NR-ER** | (n-1) contingency of 400 kV Saranath-Pusauli |
| **ER-NR** | N-1 contingency of 400 kV Biharshariff- Lakhisarai S/C |
| **ER-W3** | 1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.<br>2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) |
| **WR-SR & ER-SR** | 1. (n-1) of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.<br>2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)<br>3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge. |
| **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 |
| **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** | 1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.<br>2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) |

*Primary constraints

**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 2015 to 30th Sep 2015 | 00-24 | 7300 | 800 | 6500 | 7708 | 0 | -2600 | Revised considering skewed sharing of flows on WR-NR and ER-NR corridor in the range 70:30 |
| **NER** | 1st Sep 2015 to 30th Sep 2015 | 00-17<br>23-24 | 1200 | 40 | 1160 | 210 | 950 | | |
| | | 17-23 | 1250 | | 1210 | | 1000 | | |
| **WR** | | | | | | | | | |
| | | | | | | | | | |
| **SR** | 1st Sep 2015 to 30th Sep 2015 | 00-06<br>18-24 | 4950 | 750 | 4200 | 3935 | 265 | | |
| | | 06-18' | 4950 | | 4200 | 4000 | 200 | | |

* 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).

**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 2015 to 30th Sep 2015 | 00-06 | 4500 | 700 | 3800 | 999 | 2801 | | |
| | | 06-18' | | | 3800 | 1064 | 2736 | | |
| | | 18-24 | 4500 | | 3800 | 999 | 2801 | | |
| **NER** | 1st Sep 2015 to 30th Sep 2015 | 00-17<br>23-24 | 1220 | 30 | 1190 | 0 | 1190 | | |
| | | 17-23 | 1300 | 40 | 1260 | | 1260 | | |
| **WR** | | | | | | | | | |
| | | | | | | | | | |
| **SR *** | 1st Sep 2015 to 30th Sep 2015 | 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 400 kV Biharshariff- Lakhisarai S/C |
| | | High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda). |
| | **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 |
| | **Export** | |
| **SR** | **Import** | 1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.<br>2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) |
| | | 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge. |

*Primary constraints

# National Load Despatch Centre
# Total Transfer Capability for September 2015

| Revision No | Date of Revision | Period of Revision | Reason for Revision | Corridor Affected |
|---|---|---|---|---|
| 1 | 25-06-2015 | Whole month | Revised considering skewed sharing of flows on WR-NR and ER-NR corridor in the range 70:30 | Import of NR |
| | | | | |
| | | | | |
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| ASSUMPTIONS IN BASECASE | | | | | |
|---|---|---|---|---|---|
| | | | | Month : September '15 | |
| 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 | 8327 | 7408 | 4656 | 4626 |
| 2 | Haryana | 7890 | 7084 | 3318 | 3318 |
| 3 | Rajasthan | 9096 | 8161 | 5709 | 5646 |
| 4 | Delhi | 4549 | 3953 | 1095 | 1095 |
| 5 | Uttar Pradesh | 12551 | 12022 | 6555 | 6605 |
| 6 | Uttarakhand | 1677 | 1295 | 874 | 723 |
| 7 | Himachal Pradesh | 1189 | 985 | 988 | 971 |
| 8 | Jammu & Kashmir | 2123 | 1439 | 438 | 438 |
| 9 | Chandigarh | 266 | 159 | 0 | 0 |
| 10 | ISGS/IPPs | 0 | 0 | 19172 | 14064 |
| | Total NR | 47668 | 42504 | 42804 | 37485 |
| | | | | | |
| II | EASTERN REGION | | | | |
| 1 | Bihar | 2690 | 2033 | 110 | 0 |
| 2 | Jharkhand | 915 | 749 | 507 | 330 |
| 3 | Damodar Valley Corporation | 2906 | 2140 | 3619 | 2922 |
| 4 | Orissa | 3574 | 2894 | 3176 | 2150 |
| 5 | West Bengal | 7617 | 5926 | 5553 | 3524 |
| 6 | Sikkim | 88 | 43 | 0 | 0 |
| 7 | Bhutan | 105 | 104 | 1300 | 1030 |
| 8 | ISGS/IPPs | 608 | 568 | 9360 | 8909 |
| | Total ER | 18502 | 14458 | 23625 | 18865 |
| | | | | | |
| III | WESTERN REGION | | | | |
| 1 | Maharashtra | 20211 | 11204 | 14900 | 6645 |
| 2 | Gujarat | 12909 | 7121 | 10115 | 4527 |
| 3 | Madhya Pradesh | 7861 | 4927 | 4832 | 2521 |
| 4 | Chattisgarh | 3612 | 2182 | 2491 | 1036 |
| 5 | Daman and Diu | 305 | 233 | 0 | 0 |
| 6 | Dadra and Nagar Haveli | 771 | 570 | 0 | 0 |
| 7 | Goa-WR | 513 | 293 | 0 | 0 |
| 8 | ISGS/IPPs | 1048 | 1046 | 23713 | 20410 |
| | Total WR | 47230 | 27575 | 56050 | 35139 |

| | | | | | |
|---|---|---|---|---|---|
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 5904 | 5359 | 4699 | 4399 |
| 2 | Telangana | 7336 | 6348 | 3626 | 2262 |
| 3 | Karnataka | 7925 | 6076 | 7334 | 5247 |
| 4 | Tamil Nadu | 13399 | 11925 | 8681 | 7218 |
| 5 | Kerala | 3381 | 2230 | 1779 | 694 |
| 6 | Pondy | 338 | 290 | 0 | 0 |
| 7 | Goa-SR | 81 | 81 | 0 | 0 |
| 8 | ISGS/IPPs | 0 | 0 | 9605 | 9470 |
| | Total SR | 38364 | 32309 | 35724 | 29290 |
| | | | | | |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Arunachal Pradesh | 107 | 92 | 0 | 0 |
| 2 | Assam | 1050 | 944 | 285 | 250 |
| 3 | Manipur | 125 | 105 | 0 | 0 |
| 4 | Meghalaya | 312 | 208 | 211 | 155 |
| 5 | Mizoram | 72 | 44 | 4 | 4 |
| 6 | Nagaland | 110 | 106 | 22 | 16 |
| 7 | Tripura | 266 | 166 | 110 | 110 |
| 8 | ISGS/IPPs | 7 | 7 | 1501 | 1302 |
| | Total NER | 2049 | 1672 | 2133 | 1837 |
| | | | | | |
| | Total All India | 153812 | 118517 | 160336 | 122616 |