

National Load Despatch Centre
Total Transfer Capability for September 2012

Issue Date: 09/08/2012

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) | Comments |
|-----------------------|---|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|---|
| NR-WR | 1st September 2012 to 30th September 2012 | 00-24 | 1900 | 200 | 1700 | 286 | 1414 | |
| WR-NR | 1st September 2012 to 30th September 2012 | 00-24 | 2200 | 200 | 2000 | 260 | 1740 | |
| NR-ER | 1st September 2012 to 30th September 2012 | 00-17 | 800 | 200 | 600 | 0 | 600 | |
| | | 23-24 | 900 | | 700 | | 700 | |
| ER-NR | 1st September 2012 to 30th September 2012 | 00-24 | 5000 | 300 | 4700 | 1158 | 3542 | |
| WR-ER | 1st September 2012 to 30th September 2012 | 00-24 | 1000 | 300 | 700 | 0 | 700 | |
| ER-WR | 1st September 2012 to 30th September 2012 | 00-24 | 1000 | 300 | 700 | 650 | 50 | |
| WR-SR | 1st September 2012 to 30th September 2012 | 00-24 | 800 | 0 | 800 | 800 | 0 | |
| SR-WR | 1st September 2012 to 30th September 2012 | 00-24 | 1000 | 0 | 1000 | 0 | 1000 | |
| ER-SR# | 1st September 2012 to 6th September 2012 | 00-24' | 750 | 0 | 750 | 352 | 398 | Reshcedhuling in maintenance schedule of U # 5 of Talcher STPS Stage II |
| | 7th September 2012 to 30th September 2012 | 00-05 10-19 | 530 | | 530 | | 178 | |
| | | 05-10 19-24 | 750 | | 750 | | 398 | |
| SR-ER# | 1st September 2012 to 6th September 2012 | 00-17 | 800 | 0 | 800 | 148 | 652 | |
| | | 17-23 | 900 | | 900 | | 752 | |
| | 1st September 2012 to 30th September 2012 | 00-17 | 800 | 0 | 800 | 197 | 603 | |
| | | 17-23 | 900 | | 900 | | 703 | |
| ER-NER | 1st September 2012 to 30th September 2012 | 00-17 | 560 | 35 | 525 | 161 | 364 | |
| | | 23-24 | 490 | | 455 | | 289 | |
| NER-ER | 1st September 2012 to 30th September 2012 | 00-17 | 550 | 100 | 450 | 0 | 450 | |
| | | 17-23 | 550 | | 450 | | 450 | |
| S1-S2 | 1st September 2012 to 30th September 2012 | 00-10 | 5800 | 100 | 5700 | 3800 | 1900 | |
| | | 10-24' | 5500 | | 5400 | | 1600 | |
| JPL Complex | 1st September 2012 to 30th September 2012 | 00-24 | 1030 | 0 | 1030 | 0 | 1030 | |
| Import of Punjab | 1st September 2012 to 30th September 2012 | 00-24 | 5400 | 300 | 5100 | 3243 | 1857 | |
| Import TTC for DD&DNH | 1st September 2012 to 30th September 2012 | 00-24 | 980 | 0 | 980 | LTA and MTOA as per ex-pp schedule | | |

1) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam

2) ^ S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry

Limiting Constraints

| Corridor | Constraint |
|---------------|--|
| NR-WR | (n-1) contingency of 400kV Bina(PG)-Bina(MP) |
| WR-NR | Low voltage at Gwalior on (n-1) contingency of 400kV Bina-Gwalior |
| NR-ER | (n-1) contingency of 400 kV Pusauli-Biharsharif |
| ER-NR | (n-1) contingency of 400 kV Purnea-Muzaffarpur |
| WR-ER | (n-1) contingency of 400 kV Maithon-Kahalgaon Highloading of 220kV Korba(E)-Raigarh |
| ER-WR | High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni (n-1) contingency of 400kV Rourkela-Jamshedpur |
| WR-SR | High loading of 400 kV Raipur-Bhadrawati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore* |
| SR-WR | (n-1) contingency of Chandrapur-Parli |
| ER-SR | (n-1) contingency of 400 kV Vijaywada-Nellore* (n-1) contingency of Rourkela-Talcher * Low Voltage in Chennai Area* |
| SR-ER | (n-1) contingency of 400 kV Maithon-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur |
| ER-NER | (n-1) contingency of 400 kV Binaguri-Bongaigaon High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa, Balipara* |
| NER-ER | (n-1) contingency of 400 kV Purnea-Muzaffarpur High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa* |
| S1-S2 | (n-1) contingency of 400 kV Hosur-Salem |

*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) | Comments |
|----------|---|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|--|
| ER | | | | | | | | |
| NR | 1st September 2012 to 30th September 2012 | 00-24 | 6200 | 500 | 5700 | 1418 | 4282 | |
| NER | 1st September 2012 to 30th September 2012 | 00-17 | 560 | 35 | 525 | 161 | 364 | |
| | | 23-24 | | | | | | |
| | | 17-23 | 490 | | 455 | 166 | 289 | |
| WR | | | | | | | | |
| SR# | 1st September 2012 to 6th September 2012 | 00-24' | 1550 | 0 | 1550 | | 398 | Reshceduling in maintenance schedule of U # 5 of Talcher STPS Stage II |
| | 7th September 2012 to 30th September 2012 | 00-05 | 1330 | | 1330 | 1152 | 178 | |
| | | 10-19 | | | | | | |
| | | 05-10 | 1550 | | 1550 | | 398 | |

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) | Comments | |
|----------|---|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|----------|--|
| ER | | | | | | | | | |
| NR | 1st September 2012 to 30th September 2012 | 00-24 | 2300 | 500 | 1800 | 286 | 1514 | | |
| NER | 1st September 2012 to 30th September 2012 | 00-17 | 550 | 100 | 450 | 0 | 450 | | |
| | | 23-24 | | | | | | | |
| | | 17-23 | 530 | | 430 | | 430 | | |
| WR | | | | | | | | | |
| SR# | 1st September 2012 to 6th September 2012 | 00-17 | 1800 | 0 | 1800 | 148 | 1652 | | |
| | | 23-24 | | | | | | | |
| | | | 17-23 | 1900 | | 1900 | | 1752 | |
| | 1st September 2012 to 30th September 2012 | 00-17 | 1800 | 0 | 1800 | 197 | 1603 | | |
| 23-24 | | | | | | | | | |
| | | 17-23 | 1900 | | 1900 | | 1703 | | |

Limiting Constraints

| | | |
|------------|---------------|--|
| NR | Import | (n-1) contingency of 400 kV Purnea Muzaffarpur* Low voltage at Gwalior on (n-1) contingency of 400kV Bina-Gwalior |
| | Export | (n-1) contingency of 400 kV Kahalgaon-Maithon |
| NER | Import | High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon |
| | Export | High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Purnea-Muzaffarpur* |
| SR | Import | Link Capacity of HVDC Bhadrawati B/B* (n-1) contingency of Rourkela-Talcher* Low Voltage in Chennai Area (n-1) contingency of 400 kV Vijaywada-Nellore |
| | Export | (n-1) contingency of Chandrapur-Parli (n-1) contingency of 400 kV Maithon Kahalgaon (n-1) contingency of 400 kV Kadappa-Kolar and neyvelli- Sriperumbudur |

ASSUMPTIONS IN BASECASE

| 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 | 7551 | 7100 | 3016 | 2877 |
| 2 | Haryana | 5901 | 5400 | 3293 | 3293 |
| 3 | Rajasthan | 6100 | 5900 | 3552 | 3480 |
| 4 | Delhi | 4565 | 4200 | 1396 | 1396 |
| 5 | Uttar Pradesh | 10050 | 10300 | 5166 | 4832 |
| 6 | Jammu & Kashmir | 1900 | 1802 | 560 | 609 |
| 7 | Uttarakhand | 1600 | 1230 | 899 | 906 |
| 8 | Himachal Pradesh | 1030 | 970 | 745 | 745 |
| 9 | Chandigarh | 282 | 231 | 0 | 0 |
| 10 | ISGS | | | 18226 | 16779 |
| | Total NR | 38979 | 37133 | 36853 | 34918 |
| II | EASTERN REGION | | | | |
| 1 | West Bengal | 6250 | 4930 | 4617 | 3942 |
| 2 | Jharkhand | 900 | 700 | 390 | 390 |
| 3 | Orissa | 3300 | 2400 | 2707 | 2092 |
| 4 | Bihar | 1650 | 1300 | 130 | 130 |
| 5 | Damodar Valley Corporation | 2200 | 1900 | 1551 | 1551 |
| 6 | Sikkim | 60 | 60 | 0 | 0 |
| 7 | Bhutan | 110 | 110 | 1400 | 1400 |
| 8 | ISGS | | | 6236 | 6236 |
| | Total ER | 14470 | 11400 | 17031 | 15741 |
| III | WESTERN REGION | | | | |
| 1 | Chattisgarh | 2608 | 1983 | 2147 | 1716 |
| 2 | Madhya Pradesh | 5223 | 4166 | 3238 | 2739 |
| 3 | Maharashtra | 15700 | 12000 | 12016 | 8352 |
| 4 | Gujarat | 9618 | 6440 | 11085 | 6815 |
| 5 | Goa | 300 | 197 | | |
| 6 | Daman and Diu | 225 | 177 | | |
| 7 | Dadra and Nagar Haveli | 439 | 477 | | |
| 8 | ISGS | | | 11971 | 10595 |
| | Total WR | 34112 | 25439 | 40457 | 30217 |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 10715 | 9050 | 7729 | 5978 |
| 2 | Tamil Nadu | 10100 | 8700 | 4423 | 3439 |
| 3 | Karnataka | 7200 | 5700 | 4701 | 3300 |
| 4 | Kerala | 2950 | 2300 | 1343 | 896 |
| 5 | Pondy | 325 | 250 | 0 | 0 |
| 6 | Goa | 80 | 80 | 0 | 0 |
| 7 | ISGS | | | 9700 | 8800 |
| | Total SR | 31370 | 26080 | 27896 | 22413 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Manipur | 115 | 92 | 0 | 0 |
| 2 | Meghalaya | 258 | 180 | 120 | 70 |
| 3 | Mizoram | 70 | 40 | 0 | 0 |
| 4 | Nagaland | 70 | 60 | 15 | 15 |
| 5 | Assam | 950 | 824 | 240 | 220 |
| 6 | Tripura | 180 | 100 | 105 | 100 |
| 7 | Arunachal Pradesh | 124 | 83 | 0 | 0 |
| 8 | ISGS | | | 1292 | 682 |
| | Total NER | 1767 | 1379 | 1772 | 1087 |
| | Total All India | 120698 | 101431 | 124009 | 104376 |