

**National Load Despatch Centre
Total Transfer Capability for May 2011**

Issue Date: 19/05/2011

Issue Time: 1000 hrs

Revision No. 6

| 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 May 2011 to 31st May 2011 | 00-24 | 1500 | 200 | 1300 | 55 | 1245 | |
| WR-NR | 1st May 2011 to 31st May 2011 | 00-24 | 1900 | 200 | 1700 | 0 | 1700 | |
| NR-ER | 1st May 2011 to 31st May 2011 | 00-24 | 850 | 200 | 650 | 0 | 650 | |
| ER-NR# | 1st May 2011 to 25th May 2011 | 00-17 23-24 | 2800 | 300 | 2500 | 1164 | 1336 | Revised due to defferment of shutdown of 400 kV Malda-Purnea D/C |
| | | 17-23 | 3000 | | 2700 | 1199 | 1501 | |
| | 26th May 2011 to 31st May 2011 | 00-17 23-24 | 2000 | 300 | 1700 | 1164 | 536 | |
| | | 17-23 | 2400 | | 2100 | 1199 | 901 | |
| WR-ER | 1st May 2011 to 14th May 2011 | 00-17 23-24 | 900 | 300 | 600 | 0 | 600 | |
| | | 17-23 | 1000 | | 700 | | 700 | |
| | 15th May 2011 to 25th May 2011 | 00-17 23-24 | 700 | 300 | 400 | 0 | 400 | |
| | | 17-23 | 700 | | 400 | | 400 | |
| | 26th May 2011 to 31st May 2011 | 00-17 23-24 | 700 | 300 | 400 | 0 | 400 | |
| | | 17-23 | 700 | | 400 | | 400 | |
| ER-WR | 1st May 2011 to 31st May 2011 | 00-24 | 1100 | 300 | 800 | 528 | 272 | |
| WR-SR | 1st May 2011 to 31st May 2011 | 00-24 | 1000 | 0 | 1000 | 0 | 1000 | |
| SR-WR | 1st May 2011 to 31st May 2011 | 00-24 | 850 | 0 | 850 | 0 | 850 | |
| ER-SR# | 1st May 2011 to 31st May 2011 | 00-10 19-24 | 530 | 100 | 430 | 115 | 315 | |
| | | 10-19' | 330 | | 230 | | 115 | |
| SR-ER | 1st May 2011 to 31st May 2011 | 00-17 23-24 | 900 | 100 | 800 | 197 | 603 | |
| | | 17-23 | 1100 | | 1000 | | 803 | |
| ER-NER | 1st May 2011 to 31st May 2011 | 00-17 23-24 | 470 | 50 | 420 | 242 | 178 | |
| | | 17-23 | 470 | | 420 | | 178 | |
| NER-ER | 1st May 2011 to 31st May 2011 | 00-24 | 600 | 100 | 500 | 0 | 500 | |
| S1-S2^ | 1st May 2011 to 31st May 2011 | 00-24 | 4900 | 100 | 4800 | 3100 | 1700 | |
| Korba (NTPC) - Lanco | 1st May 2011 to 9th May 2011 | 00-24 | 2750 | 0 | 2750 | 1950 | 800 | |
| | 10th May 2011 to 31st May 2011 | 00-24 | 2750 | 0 | 2750 | 1520 | 1230 | |

#Revised

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 | Over loading of 400kV Bina-Nagda D/C and 400kV Khandwa-Dhule D/C (n-1) contingency of 400kV Bina-Gwalior one circuit leading to over loading of the other circuit of 400 kV |
| WR-NR | Bina-Gwalior and 400kV Soja-Zerda S/C |
| NR-ER | (n-1) contingency of 400 kV Kahalgaon-Maithon |
| ER-NR | (n-1) contingency of 400 kV Farakka-Kahalgaon |
| WR-ER | (n-1) contingency of 400 kV Farakka-Kahalgaon (n-1) contingency of 220 kV Budhipadar-Tarkera High loading of 220 kV 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-Raigarh |
| WR-SR | High loading of 400 kV Raipur-Bhadravati 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* Low Voltage in Chennai Area* |
| SR-ER | (n-1) contingency of 400 kV Farakka-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur |
| ER-NER | 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 Farakka-Malda |
| NER-ER | (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* |
| SI-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 May 2011 to 25th May 2011 | 00-17 | 4600 | 500 | 4100 | 1164 | 2936 | Revised due to defferment of shutdown of 400 kV Malda-Purnea D/C |
| | | 23-24 | | | 4100 | 1199 | 2901 | |
| | 26th May 2011 to 31st May 2011 | 00-17 | 3800 | 500 | 3300 | 1164 | 2136 | |
| | | 23-24 | 4200 | | 3700 | 1199 | 2501 | |
| NER | 1st May 2011 to 31st May 2011 | 00-17 | 470 | 50 | 420 | 242 | 178 | |
| | | 23-24 | 470 | | 420 | | 178 | |
| WR | | | | | | | | |
| SR | 1st May 2011 to 31st May 2011 | 00-10 | 1530 | 100 | 1430 | 115 | 1315 | |
| | | 19-24 | | | 1230 | | 1115 | |
| | | 10-19' | | | 1330 | | | |

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 May 2011 to 31st May 2011 | 00-24 | 2300 | 500 | 1800 | 55 | 1745 | |
| NER | 1st May 2011 to 31st May 2011 | 00-24 | 600 | 100 | 500 | 0 | 500 | |
| WR | | | | | | | | |
| SR | 1st May 2011 to 31st May 2011 | 00-17 | 1750 | 100 | 1650 | 197 | 1453 | |
| | | 23-24 | | | 1850 | | 1653 | |
| | | 17-23 | | | 1950 | | | |

Revised

Limiting Constraints

| | | |
|------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NR | Import | (n-1) contingency of 400 kV Farakka-Kahalgaon |
| | 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 Farakka-Kahalgaon |
| | Export | (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* |
| SR | Import | High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C 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 Farakka-Kahalgaon for peak-period (n-1) contingency of 400 kV Kadappa-Kolar and neyvelli- Sriperumbudur |

ASSUMPTIONS IN BASECASE

| Sl.No. | Name of State/Area | Load | | Generation | |
|------------|-----------------------------|----------------|--------------------|---------------|---------------|
| | | Peak Load (MW) | Off Peak Load (MW) | Peak (MW) | Off Peak (MW) |
| I | NORTHERN REGION | | | | |
| 1 | Punjab | 5020 | 4050 | 2245 | 2060 |
| 2 | Haryana | 4535 | 3650 | 2990 | 2990 |
| 3 | Rajasthan | 5580 | 5500 | 3780 | 3700 |
| 4 | Delhi | 3340 | 1600 | 1115 | 1115 |
| 5 | Uttar Pradesh | 7725 | 7800 | 3245 | 3115 |
| 6 | Jammu & Kashmir | 1425 | 1300 | 410 | 380 |
| 7 | Uttarakhand | 1020 | 870 | 415 | 320 |
| 8 | Himachal Pradesh | 880 | 530 | 130 | 60 |
| 9 | ISGS | | | 12460 | 8080 |
| | Total NR | 29525 | 25300 | 26790 | 21820 |
| II | EASTERN REGION | | | | |
| 1 | West Bengal | 4970 | 4000 | 4670 | 4005 |
| 2 | Jharkhand | 795 | 600 | 630 | 370 |
| 3 | Orissa | 2980 | 2000 | 2415 | 1600 |
| 4 | Bihar | 1290 | 1000 | 150 | 150 |
| 5 | Damodar Valley Corporation | 1890 | 1600 | 2070 | 1600 |
| 6 | Sikkim | 45 | 45 | 0 | 0 |
| 7 | Bhutan | 125 | 125 | 340 | 340 |
| 8 | ISGS | | | 4450 | 4375 |
| | Total ER | 12095 | 9370 | 14725 | 12440 |
| III | WESTERN REGION | | | | |
| 1 | Chattisgarh | 2510 | 2030 | 3150 | 2920 |
| 2 | Madhya Pradesh | 6345 | 5690 | 4560 | 2660 |
| 3 | Maharashtra* | 13965 | 11035 | 11150 | 9700 |
| 4 | Gujrat | 8810 | 7240 | 8960 | 7700 |
| | Goa | 420 | 300 | 0 | 0 |
| | Daman and Diu | 265 | 240 | 0 | 0 |
| | Dadra and Nagar Haveli | 500 | 460 | 0 | 0 |
| 5 | ISGS | | | 8545 | 8230 |
| | Total WR | 32815 | 26995 | 36365 | 31210 |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 9625 | 7350 | 8740 | 7190 |
| 2 | Tamil Nadu | 8990 | 7085 | 6050 | 4070 |
| 3 | Karnataka | 6310 | 4705 | 4930 | 2470 |
| 4 | Kerala | 2925 | 1800 | 2340 | 1080 |
| 5 | ISGS | | | 6030 | 5800 |
| | Total SR | 27850 | 20940 | 28090 | 20610 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Manipur | 100 | 65 | 0 | 0 |
| 2 | Meghalaya | 300 | 240 | 90 | 70 |
| 3 | Mizoram | 55 | 40 | 0 | 0 |
| 4 | Nagaland | 80 | 65 | 0 | 0 |
| 5 | Assam | 765 | 560 | 390 | 180 |
| 6 | Tripura | 130 | 80 | 85 | 80 |
| 7 | Arunachal Pradesh | 70 | 55 | 0 | 0 |
| 8 | ISGS | | | 880 | 370 |
| | Total NER | 1500 | 1105 | 1445 | 700 |
| | Total All India | 103785 | 83710 | 107415 | 86780 |

* Assumptions are corresponding to the basecase and not the limiting case