# National Load Despatch Centre
## Total Transfer Capability for November 2011

Issue Date: 18/11/2011 Issue Time: 1500 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) | Comments |
|---|---|---|---|---|---|---|---|---|
| **NR-WR** | 1st November 2011 to 30th November 2011 | 00-24 | 1900 | 200 | 1700 | 286 | 1414 | |
| **WR-NR** | 1st November 2011 to 30th November 2011 | 00-24 | 2000 | 200 | 1800 | 0 | 1800 | |
| | | | | | | | | |
| **NR-ER** | 1st November 2011 to 30th November 2011 | 00-17 23-24 | 800 | 200 | 600 | 0 | 600 | |
| | | 17-23 | 900 | | 700 | | 700 | |
| **ER-NR** | 1st November 2011 to 30th November 2011 | 00-24 | 3500 | 300 | 3200 | 944 | 2256 | |
| | | | | | | | | |
| **WR-ER** | 1st November 2011 to 30th November 2011 | 00-17 23-24 | 900 | 300 | 600 | 0 | 600 | |
| | | 17-23 | 1000 | | 700 | | 700 | |
| **ER-WR#** | 1st November 2011 to 18th November 2011 | 00-24 | 1100 | 300 | 800 | 450 | 350 | |
| | 19th November 2011 to 30th November 2011 | 00-24 | 750 | 300 | 450 | 450 | 0 | Revised due to skewed despatch scenario, overdrawal by MP, Maharashtra and outage of state generation in WR |
| | | | | | | | | |
| **WR-SR** | 1st November 2011 to 30th November 2011 | 00-24 | 800 | 0 | 800 | 242 | 558 | |
| **SR-WR** | 1st November 2011 to 30th November 2011 | 00-24 | 850 | 0 | 850 | 0 | 850 | |
| | | | | | | | | |
| **ER-SR** | 1st November 2011 to 30th November 2011 | 00-05 10-19 | 120 | 0 | 120 | 120 | 0 | |
| | | 05-10 19-24 | 530 | | 530 | | 410 | |
| **SR-ER** | 1st November 2011 to 30th November 2011 | 00-17 23-24 | 700 | 0 | 700 | 197 | 503 | |
| | | 17-23 | 800 | | 800 | | 603 | |
| | | | | | | | | |
| **ER-NER** | 1st November 2011 to 30th November 2011 | 00-17 23-24 | 500 | 50 | 450 | 189 | 261 | |
| | | 17-23 | | | | 212 | 238 | |
| **NER-ER** | 1st November 2011 to 30th November 2011 | 00-24 | 600 | 100 | 500 | 0 | 500 | |
| | | | | | | | | |
| **S1-S2** | 1st November 2011 to 30th November 2011 | 00-24 | 4900 | 100 | 4800 | 3100 | 1700 | |
| **Daman & Diu and Dadra & Nagar Haveli** | 1st November 2011 to 30th November 2011 | 00-24 | 980 | 0 | 980 | 980 | 0 | |
| **Jindal Tamnar** | 1st November 2011 to 30th November 2011 | 00-24 | 900 | 0 | 900 | 0 | 900 | |
| **Import of Punjab** | 1st November 2011 to 30th November 2011 | 00-24 | 5000 | 300 | 4700 | 2850 | 1850 | |

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 |
| **WR-NR** | (n-1) contingency of 400kV Bina-Gwalior one circuit leading to over loading of the other circuit of 400 kV Bina-Gwalior and 400kV Soja-Zerda S/C |
| **NR-ER** | (n-1) contingency of 400 kV Maithon-Jamshedpur |
| **ER-NR** | (n-1) contingency of 400 kV Farakka-Malda and Maithon-Kahalgaon |
| **WR-ER** | (n-1) contingency of 400 kV Farakka-Malda and Maithon-Kahalgaon<br>(n-1) contingency of 220 kV Budhipadar-Korba (E) |
| **ER-WR** | High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni<br>(n-1) contingency of 400kV Maithon-Jamshedpur |
| **WR-SR** | High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C<br>(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*<br>Low Voltage in Chennai Area* |
| **SR-ER** | (n-1) contingency of 400 kV Farakka-Malda and Maithon-Kahalgaon<br>(n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur |
| **ER-NER** | High Loading of 220 kV BTPS-Agia<br>High Loading of 220 kV Balipara-Samaguri<br>High Loading of 400/220 kV 315 MVA ICT at Misa |
| **NER-ER** | High Loading of 220 kV BTPS-Agia<br>High Loading of 220 kV Balipara-Samaguri<br>High Loading of 400/220 kV 315 MVA ICT at Misa |
| **S1-S2** | (n-1) contingency of 400 kV Hosur-Salem |
| **Daman & Diu and Dadra & Nagar Haveli** | High loading on 400/220kV 2X315MVA Vapi ICTs |

*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 November 2011 to 30th November 2011 | 00-17<br>23-24 | 5200 | 500 | 4700 | 944 | 3756 | |
| **NER** | 1st November 2011 to 30th November 2011 | 00-17<br>23-24 | 500 | 50 | 450 | 189 | 261 | |
| | | 17-23 | | | | 212 | 238 | |
| **WR** | | | | | | | | |
| | | | | | | | | |
| **SR#** | 1st November 2011 to 30th November 2011 | 00-05<br>10-19 | 920 | 0 | 920 | 362 | 558 | |
| | | 05-10<br>19-24 | 1330 | | 1330 | 362 | 968 | |

**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 November 2011 to 30th November 2011 | 00-24 | 2300 | 500 | 1800 | 286 | 1514 | |
| **NER** | 1st November 2011 to 30th November 2011 | 00-24 | 600 | 100 | 500 | 0 | 500 | |
| **WR** | | | | | | | | |
| | | | | | | | | |
| **SR** | 1st November 2011 to 30th November 2011 | 00-17<br>23-24 | 1550 | 0 | 1550 | 197 | 1353 | |
| | | 17-23 | 1650 | | 1650 | | 1453 | |

**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<br>High Loading of 220 kV Balipara-Samaguri<br>High Loading of 400/220 kV 315 MVA ICT at Misa |
| | **Export** | High Loading of 220 kV BTPS-Agia*<br>High Loading of 220 kV Balipara-Samaguri*<br>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<br>Low Voltage in Chennai Area<br>(n-1) contingency of 400 kV Vijaywada-Nellore |
| | **Export** | (n-1) contingency of Chandrapur-Parli<br>(n-1) contingency of 400 kV Farakka-Kahalgaon and Maithon Kahalgaon<br>(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 | 5550 | 4257 | 2190 | 2137 |
| 2 | Haryana | 4501 | 3696 | 2803 | 2803 |
| 3 | Rajasthan | 5802 | 4814 | 3978 | 4019 |
| 4 | Delhi | 3498 | 3109 | 1174 | 1174 |
| 5 | Uttar Pradesh | 8800 | 8926 | 3505 | 3481 |
| 6 | Jammu & Kashmir | 1502 | 1204 | 401 | 202 |
| 7 | Uttarakhand | 1252 | 973 | 590 | 386 |
| 8 | Himachal Pradesh | 1030 | 883 | 329 | 231 |
| 9 | Chandigarh | 255 | 130 | 0 | 0 |
| 10 | ISGS | | | 14570 | 9908 |
| | **Total NR** | **32190** | **27991** | **29539** | **24340** |
| | | | | | |
| II | **EASTERN REGION** | | | | |
| 1 | West Bengal | 6000 | 4850 | 4417 | 3942 |
| 2 | Jharkhand | 850 | 700 | 390 | 390 |
| 3 | Orissa | 3250 | 2250 | 2507 | 2092 |
| 4 | Bihar | 1700 | 1400 | 130 | 130 |
| 5 | Damodar Valley Corporation | 2000 | 1800 | 1551 | 1551 |
| 6 | Sikkim | 60 | 60 | 0 | 0 |
| 7 | Bhutan | 110 | 110 | 1400 | 1400 |
| 8 | ISGS | | | 5370 | 4950 |
| | **Total ER** | **13970** | **11170** | **15765** | **14455** |
| | | | | | |
| III | **WESTERN REGION** | | | | |
| 1 | Chattisgarh | 2819 | 2358 | 2987 | 2797 |
| 2 | Madhya Pradesh | 6534 | 4693 | 4088 | 2835 |
| 3 | Maharashtra | 15230 | 13100 | 12780 | 9861 |
| 4 | Gujarat | 9560 | 6157 | 9848 | 6489 |
| 5 | Goa | 395 | 254 | 0 | 0 |
| 6 | Daman and Diu | 224 | 222 | 0 | 0 |
| 7 | Dadra and Nagar Haveli | 576 | 530 | 0 | 0 |
| 8 | ISGS | | | 10848 | 9736 |
| | **Total WR** | **35338** | **27314** | **40551** | **31718** |
| | | | | | |
| IV | **SOUTHERN REGION** | | | | |
| 1 | Andhra Pradesh | 9762 | 8389 | 8051 | 6513 |
| 2 | Tamil Nadu | 9556 | 8128 | 4932 | 4222 |
| 3 | Karnataka | 6227 | 4428 | 4367 | 3382 |
| 4 | Kerala | 2403 | 2103 | 1833 | 1230 |
| 5 | Pondy | 250 | 220 | | |
| 6 | Goa | 75 | 75 | | |
| 7 | ISGS | | | 7464 | 7087 |
| | **Total SR** | **28273** | **23343** | **26647** | **22434** |
| | | | | | |
| V | **NORTH-EASTERN REGION** | | | | |
| 1 | Manipur | 90 | 65 | 0 | 0 |
| 2 | Meghalaya | 218 | 160 | 120 | 70 |
| 3 | Mizoram | 65 | 45 | 0 | 0 |
| 4 | Nagaland | 70 | 57 | 15 | 15 |
| 5 | Assam | 910 | 700 | 280 | 262 |
| 6 | Tripura | 150 | 100 | 105 | 100 |
| 7 | Arunachal Pradesh | 70 | 55 | 0 | 0 |
| 8 | ISGS | | | 1136 | 995 |
| | **Total NER** | **1573** | **1182** | **1656** | **1442** |
| | | | | | |
| | **Total All India** | **111344** | **91000** | **114158** | **94389** |