

**National Load Despatch Centre
Total Transfer Capability for February 2013**

Issue Date: 28/12/2012

Issue Time: 1600 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 February 2013 to 28th February 2013 | 00-24 | 1500 | 200 | 1300 | 286 | 1014 | |
| WR-NR | 1st February 2013 to 28th February 2013 | 00-24 | 1700 | 200 | 1500 | 780 | 720 | LTA revised due to commissioning of CGPL unit-3 |
| NR-ER | 1st February 2013 to 28th February 2013 | 00-17 | 800 | 200 | 600 | 0 | 600 | |
| | | 23-24 | 900 | | 700 | | 700 | |
| ER-NR | 1st February 2013 to 28th February 2013 | 00-17 | 2700 | 300 | 2400 | 1912 | 488 | |
| | | 23-24 | | | | 1912 | 488 | |
| WR-ER | 1st February 2013 to 28th February 2013 | 00-24 | 1400 | 300 | 1100 | 0 | 1100 | |
| ER-WR | 1st February 2013 to 28th February 2013 | 00-24 | 1000 | 250 | 750 | 750 | 0 | |
| WR-SR | 1st February 2013 to 28th February 2013 | 00-24 | 1000 | 0 | 1000 | 992 | 8 | |
| SR-WR | 1st February 2013 to 28th February 2013 | 00-24 | 1000 | 0 | 1000 | 0 | 1000 | |
| ER-SR# | 1st February 2013 to 28th February 2013 | 00-05 | 730 | 0 | 730 | 170 | 560 | |
| | | 10-19 | 850* | | 850* | | 680* | |
| SR-ER | 1st February 2013 to 28th February 2013 | 00-17 | 700 | 0 | 700 | 197 | 503 | |
| | | 23-24 | 700 | | 700 | | 503 | |
| ER-NER | 1st February 2013 to 28th February 2013 | 00-17 | 450 | 35 | 415 | 220 | 195 | |
| | | 23-24 | 450 | | 415 | | 195 | |
| NER-ER | 1st February 2013 to 28th February 2013 | 00-17 | 490 | 100 | 390 | 0 | 390 | |
| | | 23-24 | 270 | | 170 | | 170 | |
| S1-S2 | 1st February 2013 to 28th February 2013 | 00-24 | 5800 | 100 | 5700 | 4400 | 1300 | |
| Import of Punjab | 1st February 2013 to 28th February 2013 | 00-24 | 5400 | 300 | 5100 | 3243 | 1857 | |
| Import TTC for DD & DNH | 1st February 2013 to 28th February 2013 | 00-24 | 980 | 0 | 980 | LTA and MTOA as per ex-pp schedule | | |
| W3 zone Injection | 1st February 2013 to 28th February 2013 | 00-18, | 7000 | 200 | 6800 | 6413 | 387 | 6413 MW corresponds to maximum effective LTA from W3. Export Margin from W3 would vary as per the maintenance schedule of generators in the zone. |
| | | 22-24 | 7500 | | 7300 | | 887 | |

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

3) W3 comprises of the following regional entities and would be operational wef 0000 hrs of 18th September 2012

a) Chattisgarh, b) Jindal Power Limited (JPL), 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

* additional 250 MW can be transferred to SR if injection point is South Odisha

Limiting Constraints

| Corridor | Constraint |
|---------------------------|--|
| NR-WR | (n-1) contingency of 400kV Bina(PG)-Bina(MP) |
| WR-NR | (n-1) contingency of 400 kV Bina-Gwalior |
| NR-ER | (n-1) contingency of 400 kV Pusauli-Biharsharif |
| ER-NR | (n-1) contingency of 400 kV Farakka-Malda |
| WR-ER | (n-1) contingency of 400 kV Sterlite-Rourkela |
| 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-Bhadrawati T/C and Bhilai-Bhadrawati S/C (n-1) Contingency of 400kV Gooty-Somanhalli & 400kV Gooty-Nelamangala line |
| SR-WR | Bhadrawati HVDC B/B link capacity |
| ER-SR | (n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area (n-1) contingency of 400 kV Rourkela-Talcher* |
| SR-ER | (n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Kadappa-Kolar and Neyveli- Sriperumbudur |
| ER-NER | (n-1) contingency of 400 kV Farakka-Malda* High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I |
| NER-ER | (n-1) contingency of 400 kV Binaguri-Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I High loading of 132 kV LTPS – Mariani S/C* (n-1) contingency of 220 kV Samaguri – Saruajai I* |
| S1-S2 | (n-1) contingency of 400 kV Hosur-Salem |
| Import of Punjab | (n-1) contingency of ICT at Moga |
| W3 zone export TTC | High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni |

*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 February 2013 to 28th February 2013 | 00-17 | 4400 | 500 | 3900 | 2692 | 1208 | LTA revised due to commissioning of CGPL unit-3 |
| | | 23-24 | | | 3900 | | 1208 | |
| NER | 1st February 2013 to 28th February 2013 | 00-17 | 450 | 35 | 415 | 220 | 195 | |
| | | 23-24 | | | 415 | | 195 | |
| WR | | | | | | | | |
| SR# | 1st February 2013 to 28th February 2013 | 00-05 | 1730 | 0 | 1730 | 1162 | 568 | |
| | | 10-19 | | | 1850* | | 688* | |

* additional 250 MW can be transferred to SR if injection point is South Odisha

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 + ER-NER | 1st February 2013 to 28th February 2013 | 00-17 | 3000 | 350 | 2650 | 2132 | 518 | |
| | | 23-24 | | | 2650 | | 518 | |
| NR | 1st February 2013 to 28th February 2013 | 00-17 | 2300 | 200 | 2100 | 286 | 1814 | |
| | | 23-24 | | | 2200 | | 1914 | |
| NER | 1st February 2013 to 28th February 2013 | 00-17 | 490 | 100 | 390 | 0 | 390 | |
| | | 23-24 | | | 170 | | 170 | |
| WR | | | | | | | | |
| SR | 1st February 2013 to 28th February 2013 | 00-17 | 1700 | 0 | 1700 | 197 | 1503 | |
| | | 23-24 | | | 1700 | | 1503 | |

Limiting Constraints

| | | |
|---------------------------|---------------|--|
| NR | Import | (n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Bina-Gwalior* |
| | Export | (n-1) contingency of 400kV Bina(PG)-Bina(MP) (n-1) contingency of 400 kV Pusauli-Biharsharif |
| NER | Import | High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I (n-1) contingency of 400 kV Farakka-Malda* |
| | Export | High loading of 132 kV LTPS - Mariani* (n-1) contingency of 400 kV Binaguri-Bongaigaon & 400 kV Balipara-Bongaigaon-I |
| SR | Import | High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV 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 |
| ER-NR + ER-NER | Export | (n-1) contingency of 400 kV Farakka-Malda |

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 | 5062 | 4141 | 2242 | 2174 |
| 2 | Haryana | 5017 | 4047 | 3122 | 3122 |
| 3 | Rajasthan | 7048 | 6700 | 3855 | 3886 |
| 4 | Delhi | 4179 | 3012 | 1416 | 1416 |
| 5 | Uttar Pradesh | 10478 | 9100 | 5500 | 5335 |
| 6 | Jammu & Kashmir | 1838 | 1380 | 235 | 252 |
| 7 | Uttarakhand | 1333 | 1100 | 512 | 321 |
| 8 | Himachal Pradesh | 1055 | 940 | 230 | 44 |
| 9 | Chandigarh | 187 | 86 | 0 | 0 |
| 10 | ISGS | | | 16279 | 10791 |
| | Total NR | 36197 | 30506 | 33392 | 27341 |
| II | EASTERN REGION | | | | |
| 1 | West Bengal | 5300 | 3900 | 4600 | 3750 |
| 2 | Jharkhand | 900 | 770 | 390 | 350 |
| 3 | Orissa | 3000 | 2200 | 2800 | 1710 |
| 4 | Bihar | 1500 | 1300 | 130 | 100 |
| 5 | Damodar Valley Corporation | 2200 | 2000 | 1550 | 2650 |
| 6 | Sikkim | 60 | 50 | 0 | 0 |
| 7 | Bhutan | 110 | 110 | 1400 | 270 |
| 8 | ISGS | | | 6300 | 5180 |
| | Total ER | 13070 | 10330 | 17170 | 14010 |
| III | WESTERN REGION | | | | |
| 1 | Chattisgarh | 2977 | 2132 | 2518 | 2025 |
| 2 | Madhya Pradesh | 7112 | 4894 | 3443 | 2802 |
| 3 | Maharashtra | 15798 | 12916 | 13113 | 9454 |
| 4 | Gujarat | 10470 | 8369 | 9933 | 7564 |
| 5 | Goa | 327 | 198 | | |
| 6 | Daman and Diu | 260 | 181 | | |
| 7 | Dadra and Nagar Haveli | 612 | 479 | | |
| 8 | ISGS | | | 13063 | 11996 |
| | Total WR | 37556 | 29169 | 42070 | 33841 |
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 11120 | 9901 | 8032 | 6753 |
| 2 | Tamil Nadu | 10756 | 9471 | 5146 | 3928 |
| 3 | Karnataka | 8500 | 6242 | 5977 | 3928 |
| 4 | Kerala | 3305 | 2690 | 222 | 1153 |
| 5 | Pondy | 303 | 247 | | |
| 6 | Goa | 84 | 84 | | |
| 7 | ISGS | | | 11053 | 10815 |
| | Total SR | 34068 | 28635 | 30430 | 26577 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Manipur | 105 | 74 | 0 | 0 |
| 2 | Meghalaya | 280 | 196 | 121 | 118 |
| 3 | Mizoram | 75 | 53 | 6 | 3 |
| 4 | Nagaland | 115 | 81 | 12 | 10 |
| 5 | Assam | 1200 | 800 | 230 | 211 |
| 6 | Tripura | 200 | 140 | 100 | 100 |
| 7 | Arunachal Pradesh | 105 | 74 | 0 | 0 |
| 8 | ISGS | 0 | 0 | 966 | 533 |
| | Total NER | 2080 | 1418 | 1435 | 975 |
| | Total All India | 122971 | 100058 | 124497 | 102744 |