

**National Load Despatch Centre
Total Transfer Capability for September 2012**

Issue Date:13/09/2012

Issue Time: 1300 hrs

Revision No. 11

| 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 | 1000 | 200 | 800 | 286 | 514 | |
| WR-NR# | 15th September 2012 to 30th September 2012 | 00-24 | 1600 | 200 | 1400 | 520 | 880 | Revised due to restoration of 400 kV Zerda-Kankroli |
| 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 | 3850 | 300 | 3550 | 1158 | 2392 | |
| WR-ER# | 18th September 2012 to 30th September 2012 | 00-24 | 1400 | 300 | 1100 | 0 | 1100 | Sterlite considered in WR in bid area W3 for which separate export TTC is indicated |
| ER-WR# | 18th September 2012 to 30th September 2012 | 00-24 | 900 | 250 | 650 | 650 | 0 | |
| WR-SR | 12th September 2012 to 30th September 2012 | 00-24 | 1000 | 0 | 1000 | 992 | 8 | |
| SR-WR | 1st September 2012 to 30th September 2012 | 00-24 | 1000 | 0 | 1000 | 0 | 1000 | |
| ER-SR# | 11th September 2012 to 14th September 2012 | 00-24' | 500* | 0 | 500* | 170 | 330* | Non availability of Talcher Stage I unit due to coal shortage |
| | 15th September 2012 to 30th September 2012 | 00-05 10-19 | 730 | | 730 | | 560 | |
| | | 05-10 19-24 | 750 | | 750 | | 580 | |
| SR-ER | 1st September 2012 to 6th September 2012 | 00-17 23-24 | 800 | 0 | 800 | 148 | 652 | |
| | | 17-23 | 900 | | 900 | | 752 | |
| | 7th September 2012 to 30th September 2012 | 00-17 23-24 | 800 | 0 | 800 | 197 | 603 | |
| | | 17-23 | 900 | | 900 | | 703 | |
| ER-NER | 1st September 2012 to 30th September 2012 | 00-17 23-24 | 370 | 35 | 335 | 200 | 135 | |
| | | 17-23 | 450 | | 415 | | 215 | |
| NER-ER | 1st September 2012 to 30th September 2012 | 00-17 23-24 | 520 | 100 | 420 | 0 | 420 | |
| | | 17-23 | 320 | | 220 | | 220 | |
| S1-S2 | 1st September 2012 to 30th September 2012 | 00-10 | 5800 | 100 | 5700 | 3800 | 1900 | |
| | | 10-24' | 5500 | | 5400 | | 1600 | |
| 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 | | |
| W3 zone export TTC | 18th September 2012 to 30th September 2012 | 00-24 | 7000 | 200 | 6800 | 4916 | 1884 | |

- 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 | 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 |
| 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 | Link capacity of HVDC Bhadrawati B/B* (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 400/220 kV 315 MVA ICT at Misa, Balipara* |
| NER-ER | (n-1) contingency of 400 kV Purnea-Muzaffarpur (N-1) Contingency of 400 kV Balipara-Bongaigaon -II High Loading of 220 kV Sarusajai-Agia S/C High Loading of 400/220 kV 315 MVA ICT at Misa* |
| S1-S2 | (n-1) contingency of 400 kV Hosur-Salem |
| Import of Punjab | (n-1) contingency of 400/220 kV Moga ICT |
| 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 September 2012 to 30th September 2012 | 00-24 | 5450 | 500 | 4950 | 1678 | 3272 | |
| NER | 1st September 2012 to 30th September 2012 | 00-17 | 370 | 35 | 335 | 200 | 135 | |
| | | 23-24 | 450 | | 415 | 200 | 215 | |
| WR | | | | | | | | |
| SR | 11th September 2012 to 14th September 2012 | 00-24' | 1500* | | 1500* | 1162 | 338* | Non availability of Talcher Stage I unit due to coal shortage |
| | 15th September 2012 to 30th September 2012 | 00-05 | 1730 | | 1730 | | 568 | |
| | | 10-19 | 1750 | | 1750 | | 588 | |
| | | 05-10 | | | | | | |
| | | 19-24 | | | | | | |

* 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 | 1st September 2012 to 30th September 2012 | 00-24 | 1500 | 500 | 1000 | 286 | 714 | |
| NER | 1st September 2012 to 30th September 2012 | 00-17 | 520 | 100 | 420 | 0 | 420 | |
| | | 23-24 | 320 | | 220 | | 220 | |
| WR | | | | | | | | |
| SR | 1st September 2012 to 6th September 2012 | 00-17 | 1800 | 0 | 1800 | 148 | 1652 | |
| | | 23-24 | 1900 | | 1900 | | 1752 | |
| | 1st September 2012 to 30th September 2012 | 00-17 | 1800 | 0 | 1800 | 197 | 1603 | |
| | | 23-24 | 1900 | | 1900 | | 1703 | |
| | | 17-23 | | | | | | |

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 400/220 kV 315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon |
| | Export | (N-1) Contingency of 400 kV Balipara-Bongaigaon -II High Loading of 220 kV Sarusajai-Agia S/C 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 Bhadravati 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 |