

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

Issue Date: 05/11/2013

Issue Time: 1400 hrs

Revision No. 9

| 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) | Changes in TTC w.r.t. Last Revision | Comments |
|--------------------|---|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|--|
| NR-WR* | 1st November 2013 to 30th November 2013 | 00-24 | 2500 | 500 | 2000 | 286 | 1714 | | |
| WR-NR ¹ | 1st November 2013 to 30th November 2013 | 00-17 | 3700 | 500 | 3200 | 3181 | 19 | | |
| | | 23-24 | | | | | | | |
| | | 17-23 | 3700 | 3200 | 3181 | 19 | | | |
| NR-ER* | 1st November 2013 to 30th November 2013 | 00-17 | 1000 | 200 | 800 | 0 | 800 | | |
| | | 23-24 | | | | | | | |
| | | 17-23 | 1100 | | 900 | | 900 | | |
| ER-NR | 1st November 2013 | 00-19 | 3000 | 300 | 2700 | 2370 | 330 | | |
| | | 19-24 | 3600 | 300 | 3300 | 2370 | 930 | | |
| | 2nd November 2013 to 30th November 2013 | 00-17 | 3600 | 300 | 3300 | 2370 | 930 | | |
| | | 23-24 | 3600 | 300 | 3300 | 2370 | 930 | | |
| | | 17-23 | | | | | | | |
| W3-ER | 1st November 2013 to 30th November 2013 | 00-24 | 1800 | 300 | 1500 | 0 | 1500 | | |
| ER-W3 | 1st November 2013 to 30th November 2013 | 00-24 | 1000 | 300 | 700 | 700 | 0 | | |
| WR-SR | 1st November 2013 to 30th November 2013 | 00-24 | 1000 | 0 | 1000 | 1000 | 0 | | |
| SR-WR* | 1st November 2013 to 30th November 2013 | 00-24 | 1000 | 0 | 1000 | 0 | 1000 | | |
| ER-SR | 1st November 2013 to 5th November 2013 | 00-05 | 750 | 0 | 750 | 612 | 138 | | |
| | | 10-19 | | | | | | | |
| | | 05-10 | 1250 | | 200 | | 1050 | | |
| | 6th November 2013 | 00-05' | 750 | 0 | 750 | 612 | 138 | | Revised due to shutdown of 400 kV Angul-Bolangir |
| | | 05-06' | 1250 | 200 | 1050 | 438 | | | |
| | | 06-10 | 950 | 0 | 950 | 338 | -300 | | |
| | | 19-21 | 1050 | 0 | 1050 | 438 | -300 | | |
| | | 10-19' | | | | | | 450 | |
| | | 21-24 | 1050 | 0 | 1050 | 438 | -200 | | |
| | 7th November 2013 to 30th November 2013 | 00-05 | 750 | 0 | 750 | 612 | 138 | | |
| | | 10-19 | 1250 | 200 | 1050 | 438 | | | |
| 05-10 | | | | | | | | | |
| 19-24 | | | | | | | | | |
| SR-ER* | 1st November 2013 to 30th November 2013 | 00-17 | 800 | 0 | 800 | 197 | 603 | | |
| | | 23-24 | | | | | | | |
| | | 17-23 | 900 | | 900 | | 703 | | |
| ER-NER | 1st November 2013 | 00-17 | 450 | 35 | 415 | 230 | 185 | | |
| | | 23-24 | | | | | | | |
| | 17-23 | 550 | 515 | | 285 | | | | |
| | 2nd November 2013 to 4th November 2013 | 00-17 | 500 | 35 | 465 | 230 | 235 | | |
| | | 23-24 | | | | | | | |
| 17-23 | 600 | 565 | 335 | | | | | | |

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| 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) | Changes in TTC w.r.t. Last Revision | Comments | |
|---|--|--|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|-----|
| ER-NER | 5th November 2013 to 10th November 2013 | 00-08 23-24 16-17 | 500 | 35 | 465 | 230 | 235 | | | |
| | | 08-16' | 280 | | 245 | | 15 | | | |
| | | 17-23 | 600 | | 565 | | 335 | | | |
| | 11th November 2013 to 30th November 2013 | 00-17 23-24 | 450 | 35 | 415 | 230 | 185 | | | |
| | | 17-23 | 450 | | 415 | | 185 | | | |
| | NER-ER | 1st November 2013 to 4th November 2013 | 00-17 23-24 | 550 | 100 | 450 | 0 | 450 | | |
| 17-23 | | | 520 | 420 | | 420 | | | | |
| 5th November 2013 to 10th November 2013 | | 00-08 16-17 23-24 | 550 | 100 | 450 | 0 | 450 | | | |
| | | 08-16' | 110 | | 10 | | 10 | | | |
| | | 17-23 | 520 | | 420 | | 420 | | | |
| | | 10th November 2013 to 30th November 2013 | 00-17 23-24 | | 550 | | 100 | 450 | 0 | 450 |
| 17-23 | | 520 | 420 | 420 | | | | | | |
| S1-S2 | | 1st November 2013 to 30th November 2013 | 00-24 | 5600 | 400 | 5200 | 4800 | 400 | | |
| Import of Punjab | | 1st November 2013 to 30th November 2013 | 00-24 | 5600 | 300 | 5300 | 3800 | 1500 | | |
| Import TTC for DD & DNH | | 1st November 2013 to 30th November 2013 | 00-24 | 980 | 0 | 980 | LTA and MTOA as per ex-pp schedule | | | |
| W3 zone Injection | | 1st November 2013 to 10th November 2013 | 00-17, 23-24 | 8500 | 200 | 8300 | 7074 | 1226 | | |
| | | | 17-23 | 9000 | | 8800 | | 1726 | | |
| | 11th November 2013 to 30th November 2013 | 00-17, 23-24 | 9000 | 200 | 8800 | 7074 | 1726 | | | |
| | | 17-23 | 9500 | | 9300 | | 2226 | | | |

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

- 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 :
 - 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, k) KSK Mahanadi, L)DB Power, m) KWPCCL

1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

Limiting Constraints

| Corridor | Constraint |
|----------|--|
| NR-WR | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. |
| WR-NR | High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra) |
| NR-ER | (n-1) contingency of 400 kV Allahabad-Pusauli |
| ER-NR | (n-1) contingency of 400 kV Farakka-Malda |

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|--------------------------|--|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
| W3-ER | (n-1) contingency of 400kV Sterilte-Rourkela S/C | | | | | | | | |
| ER-W3 | High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Raigarh-Sterlite | | | | | | | | |
| WR-SR | Bhadrawati HVDC B/B link capacity | | | | | | | | |
| SR-WR | Bhadrawati HVDC B/B link capacity | | | | | | | | |
| ER-SR | Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka | | | | | | | | |
| SR-ER | | | | | | | | | |
| ER-NER | (n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400/220 kV,315 MVA ICT at Misa | | | | | | | | |
| NER-ER | (n-1) contingency of 400 kV Binaguri-Bongaigaon* (n-1) contingency of 400 kV Balipara-Bongaigaon | | | | | | | | |
| S1-S2 | (n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line. | | | | | | | | |
| Import of Punjab | (n-1) contingency of ICT at Patiala/Moga | | | | | | | | |
| W3 zone Injection | (n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section | | | | | | | | |

*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) | Changes in TTC w.r.t. Last Revision | Comments |
|-----------------|--|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|--|
| ER | | | | | | | | | |
| NR ¹ | 1st November 2013 | 00-19 | 6700 | 800 | 5900 | 5551 | 349 | | |
| | | 19-24 | 7300 | | 6500 | | 949 | | |
| | 2nd November 2013 to 30th November 2013 | 00-17 23-24 | 7300 | 800 | 6500 | 5551 | 949 | | |
| | | 17-23 | 7300 | | 6500 | | 949 | | |
| NER | 1st November 2013 | 00-17 23-24 | 450 | 50 | 400 | 230 | 170 | | |
| | | 17-23 | 550 | | 500 | | 270 | | |
| | 2nd November 2013 to 4th November 2013 | 00-17 23-24 | 500 | 50 | 450 | 230 | 220 | | |
| | | 17-23 | 600 | | 550 | | 320 | | |
| | 5th November 2013 to 10th November 2013 | 00-08 23-24 | 500 | 35 | 465 | 230 | 235 | | |
| | | 16-17 | | | | | 15 | | |
| | | 08-16' | | | 280 | | 245 | 335 | |
| | 11th November 2013 to 30th November 2013 | 00-17 23-24 | 450 | 50 | 400 | 230 | 170 | | |
| | | 17-23 | | | 450 | | 400 | 170 | |
| | WR | | | | | | | | |
| SR | 1st November 2013 to 5th November 2013 | 00-05 10-19 | 1750 | 0 | 1750 | 1612 | 138 | | |
| | | 05-10 19-24 | 2250 | 200 | 2050 | | 438 | | |
| | 6th November 2013 | 00-05' | 1750 | 0 | 1750 | 612 | 1138 | | Revised due to shutdown of 400 kV Angul-Bolangir |
| | | 05-06' | 2250 | 200 | 2050 | | 1438 | | |
| | | 06-10 19-21 | 1950 | 0 | 1950 | | 1338 | -300 | |
| | | 10-19' | 1450 | 0 | 1450 | | 0 | -300 | |
| | | 21-24 | 2050 | 0 | 2050 | | 1438 | -200 | |
| | 7th November 2013 to 30th November 2013 | 00-05 10-19 | 1750 | 0 | 1750 | 1612 | 138 | | |
| | | 05-10 19-24 | 2250 | 200 | 2050 | | 438 | | |

I. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

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) | Changes in TTC w.r.t. Last Revision | Comments |
|----------|--|-------------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
| NR* | 1st November 2013 to 30th November 2013 | 00-17 23-24 | 3500 | 700 | 2800 | 286 | 2514 | | |
| | | 17-23 | 3600 | | 2900 | | 2614 | | |
| NER | 1st November 2013 to 30th November 2013 | 00-17 23-24 | 550 | 100 | 450 | 0 | 450 | | |
| | | 17-23 | 520 | | 420 | | 420 | | |
| | 5th November 2013 to 10th November 2013 | 00-08 16-17 23-24 | 550 | 100 | 450 | 0 | 450 | | |
| | | 08-16' | 110 | | 10 | | 10 | | |
| | | 17-23 | 520 | | 420 | | 420 | | |
| | 10th November 2013 to 30th November 2013 | 00-17 23-24 | 550 | 100 | 450 | 0 | 450 | | |
| | | 17-23 | 520 | | 420 | | 420 | | |
| | WR | | | | | | | | |
| SR* | 1st November 2013 to 30th November 2013 | 00-17 23-24 | 1800 | 0 | 1800 | 197 | 1603 | | |
| | | 17-23 | 1900 | | 1900 | | 1703 | | |

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

Limiting Constraints

| | | |
|-----|---------------|---|
| NR | Import | (n-1) contingency of 400 kV Faarakka-Malda* High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra) |
| | Export | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli |
| NER | Import | (n-1) contingency of 400 kV Farakka-Malda* |
| | Export | (n-1) contingency of 400 kV Binaguri-Bongaigaon* |
| SR | Import | Bhadrawati HVDC B/B link capacity (n-1) contingency of 400 kV Rourkela-Talcher |
| | Export | |

*Primary constraints

ASSUMPTIONS IN BASECASE

Month : November '13

| 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 | 7000 | 4924 | 2546 | 2351 |
| 2 | Haryana | 5559 | 4660 | 2770 | 2770 |
| 3 | Rajasthan | 7051 | 6539 | 4002 | 4002 |
| 4 | Delhi | 3974 | 3720 | 1514 | 1514 |
| 5 | Uttar Pradesh | 11000 | 10322 | 6008 | 5756 |
| 6 | Jammu & Kashmir | 1876 | 1185 | 584 | 429 |
| 7 | Uttarakhand | 1543 | 902 | 713 | 340 |
| 8 | Himachal Pradesh | 1327 | 730 | 444 | 523 |
| 9 | Chandigarh | 224 | 118 | 0 | 0 |
| 10 | ISGS/IPPs | | | 16740 | 11303 |
| | Total NR | 39554 | 33100 | 35321 | 28988 |
| II | EASTERN REGION | | | | |
| 1 | West Bengal | 4900 | 4500 | 4837 | 3944 |
| 2 | Jharkhand | 1110 | 770 | 561 | 561 |
| 3 | Orissa | 3500 | 2200 | 2430 | 1699 |
| 4 | Bihar | 1820 | 1320 | 0 | 0 |
| 5 | Damodar Valley Corporation | 2600 | 2035 | 3439 | 3039 |
| 6 | Sikkim | 40 | 40 | | |
| 7 | Bhutan | 110 | 110 | 648 | 648 |
| 8 | ISGS/IPPs | 131 | 241 | 6494 | 6762 |
| | Total ER | 14211 | 11216 | 18409 | 16653 |
| III | WESTERN REGION | | | | |
| 1 | Chattisgarh | 3181 | 2462 | 1804 | 1065 |
| 2 | Madhya Pradesh | 7637 | 5600 | 9905 | 7817 |
| 3 | Maharashtra | 15506 | 12500 | 4366 | 2928 |
| 4 | Gujarat | 11119 | 10121 | 11221 | 8374 |
| 5 | Goa | 432 | 281 | 0 | 0 |
| 6 | Daman and Diu | 245 | 208 | 0 | 0 |
| 7 | Dadra and Nagar Haveli | 604 | 471 | 0 | 0 |
| 8 | ISGS/IPPs | 590 | 590 | 16763 | 15466 |
| | Total WR | 39314 | 32233 | 44059 | 35650 |

| | | | | | |
|-----------|-----------------------------|---------------|---------------|---------------|---------------|
| IV | SOUTHERN REGION | | | | |
| 1 | Andhra Pradesh | 10900 | 9350 | 7204 | 6066 |
| 2 | Tamil Nadu | 11300 | 8617 | 6433 | 4962 |
| 3 | Karnataka | 7800 | 6499 | 5213 | 3549 |
| 4 | Kerala | 3225 | 2234 | 1917 | 760 |
| 5 | Pondy | 320 | 244 | 0 | 0 |
| 6 | Goa | 80 | 80 | 0 | 0 |
| 7 | ISGS/IPPs | | | 11130 | 10168 |
| | Total SR | 33625 | 27024 | 31897 | 25505 |
| V | NORTH-EASTERN REGION | | | | |
| 1 | Manipur | 130 | 91 | 0 | 0 |
| 2 | Meghalaya | 280 | 196 | 110 | 95 |
| 3 | Mizoram | 85 | 60 | 8 | 4 |
| 4 | Nagaland | 120 | 84 | 20 | 10 |
| 5 | Assam | 1350 | 970 | 220 | 180 |
| 6 | Tripura | 260 | 130 | 100 | 100 |
| 7 | Arunachal Pradesh | 130 | 91 | 0 | 0 |
| 8 | ISGS/IPPs | | | 1020 | 735 |
| | Total NER | 2355 | 1622 | 1478 | 1124 |
| | Total All India | 129059 | 105195 | 131164 | 107920 |