

National Load Despatch Centre
Total Transfer Capability for February 2014

Issue Date: 11/02/2014

Issue Time: 1230 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) | Changes in TTC w.r.t. Last Revision | Comments | | | |
|--|--|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|--|---|------|------|----|
| NR-WR * | 1st February 2014 to 28th February 2014 | 00-24 | 2500 | 500 | 2000 | 286 | 1714 | | | | | |
| WR-NR ¹ | 1st February 2014 to 11th February 2014 | 00-17 | 3900 | 500 | 3400 | 3181 | 219 | 300 | Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2 | | | |
| | | 23-24 | 3900 | | 3400 | 3181 | 219 | | | | | |
| | 12th February 2014 to 28th February 2014 | 00-17 | 4200 | 500 | 3700 | 3569 | 131 | | | | | |
| | | 23-24 | 4200 | | 3700 | 3569 | 131 | | | | | |
| ER-ER * | 1st February 2014 to 28th February 2014 | 00-17 | 1000 | 200 | 800 | 200 | 600 | | | | | |
| | | 23-24 | 1100 | | 900 | | 700 | | | | | |
| ER-NR | 1st February 2014 | 00-07 | 2600 | 300 | 2300 | 2118 | 182 | | | | | |
| | | 16-17 | | | | | 1900 | 1600 | 0 | | | |
| | | 23-24 | | | | | | | | 1900 | 1600 | 0 |
| | | 07-16' | | | | | | | | | | |
| | 2nd February 2014 to 5th February 2014 | 00-17 | 2600 | 300 | 2300 | 2118 | 182 | | | | | |
| | | 23-24 | | | | | 1900 | 1600 | 0 | | | |
| | 6th February 2014 | 00-17 | 3600 | 300 | 3300 | 2118 | 1182 | | | | | |
| | | 23-24 | | | | | 3100 | 2800 | 682 | | | |
| | 7th February 2014 | 00-17 | 3600 | 300 | 3300 | 2118 | 1182 | | | | | |
| | | 23-24 | | | | | 3100 | 2800 | 682 | | | |
| | 8th February 2014 to 9th February 2014 | 00-07 | 3600 | 300 | 3300 | 2118 | 1182 | | | | | |
| | | 23-24 | | | | | 3000 | 2700 | 582 | | | |
| 07-17' | | | | | | | | | | | | |
| 10th February 2014 to 28th February 2014 | 00-17 | 3600 | 300 | 3300 | 2118 | 1182 | | | | | | |
| | 23-24 | | | | | 3100 | 2800 | 682 | | | | |
| W3-ER | 1st February 2014 to 08th February 2014 | 00-24 | 1800 | 300 | 1500 | 0 | 1500 | | | | | |
| | 09th February 2014 | 00-07 | 1800 | 300 | 1500 | 0 | 1500 | | | | | |
| | | 18-24 | | | | | | | | | | |
| | 10th February 2014 | 00-07 | 1800 | 300 | 1500 | 0 | 1500 | | | | | |
| | | 18-24 | | | | | | | | | | |
| | 11th February 2014 | 00-09 | 1800 | 300 | 1500 | 0 | 1500 | | | | | |
| 18-24 | | | | | | | | | | | | |
| 12th February 2014 to 28th February 2014 | 00-24 | 1800 | 300 | 1500 | 60 | 1440 | | Margin revised due to allocation of Power to Bangladesh. | | | | |
| ER-W3 | 1st February 2014 to 28th February 2014 | 00-24 | 1000 | 300 | 700 | 700 | 0 | | | | | |
| WR-SR | 1st February 2014 to 28th February 2014 | 00-24 | 850 | 0 | 850 | 850 | 0 | | | | | |
| SR-WR * | 1st February 2014 to 28th February 2014 | 00-24 | 1000 | 0 | 1000 | 0 | 1000 | | | | | |
| ER-SR | 1st February 2014 to 28th February 2014 | 00-05 | 700 | 0 | 700 | 700 | 0 | | | | | |
| | | 10-19 | 700 | | 700 | | 0 | | | | | |
| SR-ER * | 1st February 2014 to 28th February 2014 | 00-17 | | 1100 | | 0 | | 1100 | 197 | 903 | | |
| | | 23-24 | 1100 | | 903 | | | | | | | |
| ER-NER ² | 1st February 2014 | 00-07 | 350 | 50 | 300 | 230 | 70 | | | | | |
| | | 16-17 | | | | | 320 | 270 | 40 | | | |
| | | 23-24 | | | | | | | | 330 | 280 | 50 |
| | | 07-16' | | | | | | | | | | |
| | | 17-23 | 330 | 280 | 50 | | | | | | | |

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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 ² | 2nd February 2014 to 5th February 2014 | 00-17 | 350 | 50 | 300 | 230 | 70 | | |
| | | 23-24 | 330 | | 280 | | 50 | | |
| | 6th February 2014 | 00-17 | 720 | 50 | 670 | 230 | 440 | | |
| | | 23-24 | 640 | | 590 | | 360 | | |
| | 7th February 2014 | 00-17 | 720 | 50 | 670 | 230 | 440 | | |
| | | 23-24 | 640 | | 590 | | 360 | | |
| | 8th February 2014 to 9th February 2014 | 00-07 | 720 | 50 | 670 | 230 | 440 | | |
| | | 23-24 | 500 | | 450 | | 220 | | |
| | | 07-17' | 640 | | 590 | | 360 | | |
| | 10th February 2014 to 28th February 2014 | 00-17 | 720 | 50 | 670 | 230 | 440 | | |
| 23-24 | | 640 | 590 | | 360 | | | | |
| NER-ER | 1st February 2014 to 28th February 2014 | 00-17 | 570 | 100 | 470 | 0 | 470 | | |
| | | 23-24 | 570 | | 470 | | 470 | | |
| S1-S2 | 1st February 2014 to 28th February 2014 | 00-24 | 5650 | 400 | 5250 | 4900 | 350 | | |
| Import of Punjab | 1st February 2014 to 28th February 2014 | 00-24 | 5600 | 300 | 5300 | 3800 | 1500 | | |
| Import TTC for DD & DNH | 1st February 2014 to 28th February 2014 | 00-24 | 980 | 0 | 980 | LTA and MTOA as per ex-pp schedule | | | |
| W3 zone Injection | 1st February 2014 | 00-08 | 8500 | 200 | 8300 | 7630 | 670 | | |
| | | 23-24 | 7600 | | 7400 | | -230 | | |
| | | 08-16' | 8600 | | 8400 | | 770 | | |
| | | 16-17 | 9100 | | 8900 | | 1270 | | |
| | | 17-18 | 9500 | | 9300 | | 1670 | | |
| | 2nd February 2014 to 28th February 2014 | 00-08 | 8500 | 200 | 8300 | 7630 | 670 | | |
| | | 23-24 | 8000 | | 7800 | | 170 | | |
| | | 08-16' | 9000 | | 8800 | | 1170 | | |
| | | 16-17 | 9500 | | 9300 | | 1670 | | |
| | | 17-23 | 9500 | | 9300 | | 1670 | | |

* 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

The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be less. RLDC/ NLDC would factor this situation while issuing STOA approvals

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

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

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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 |
|----------|------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
|----------|------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|

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 Kahalgaon-Biharshariff |
| 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-Sterilte 1. Commissioning of 765kV Raichur-Sholapur S/C |
| WR-SR & ER-SR | 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO) 3. Considering transfer capability assessment by CTU on NEW-SR corridor. |
| SR-WR | Bhadrawati HVDC B/B link capacity |
| SR-ER | |
| ER-NER | (n-1) contingency of 400 kV Kahalgaon-Biharshariff |
| NER-ER | (n-1) contingency of 400 kV Farakka-Malda |
| 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) contingency of 400 kV 400 kV Raipur-Wardha |

*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 | | | | | | | | | |
| NR¹ | 1st February 2014 | 00-07 16-17 23-24 | 6500 | 800 | 5700 | 5299 | 401 | | |
| | | 07-16' | 5800 | | 5000 | | 0 | | |
| | | 17-23 | 5800 | | 5000 | | 0 | | |
| | 2nd February 2014 to 5th February 2014 | 00-17 23-24 | 6500 | 800 | 5700 | 5299 | 401 | | |
| | | 17-23 | 5800 | | 5000 | | 0 | | |
| | 6th February 2014 | 00-17 23-24 | 7500 | 800 | 6700 | 5299 | 1401 | | |
| | | 17-23 | 7000 | | 6200 | | 901 | | |
| | 7th February 2014 | 00-17 23-24 | 7500 | 800 | 6700 | 5299 | 1401 | | |
| | | 17-23 | 7000 | | 6200 | | 901 | | |
| | 8th February 2014 to 9th February 2014 | 00-07 23-24 | 7500 | 800 | 6700 | 5299 | 1401 | | |
| | | 07-17' | 6900 | | 6100 | | 801 | | |
| | | 17-23 | 7000 | | 6200 | | 901 | | |
| | 10th February 2014 to 11th February 2014 | 00-17 23-24 | 7500 | 800 | 6700 | 5299 | 1401 | | |
| | | 17-23 | 7000 | | 6200 | | 901 | | |
| 12th February 2014 to 28th February 2014 | 00-17 23-24 | 7800 | 800 | 7000 | 5687 | 1313 | 300 | | |
| | 17-23 | 7300 | | 6500 | | 813 | | | |
| NER² | 1st February 2014 | 00-07 16-17 23-24 | 350 | 50 | 300 | 230 | 70 | | |
| | | 07-16' | 320 | | 270 | | 40 | | |
| | | 17-23 | 330 | | 280 | | 50 | | |
| | | 00-17 23-24 | 350 | | 50 | | 300 | 230 | 70 |
| | 17-23 | 330 | 280 | 50 | | | | | |
| | 6th February 2014 | 00-17 23-24 | 720 | 50 | 670 | 230 | 440 | | |
| | | 17-23 | 640 | | 590 | | 360 | | |
| | 7th February 2014 | 00-17 23-24 | 720 | 50 | 670 | 230 | 440 | | |
| | | 17-23 | 640 | | 590 | | 360 | | |
| | 8th February 2014 to 9th February 2014 | 00-07 23-24 | 720 | 50 | 670 | 230 | 440 | | |
| | | 07-17' | 500 | | 450 | | 220 | | |
| | | 17-23 | 640 | | 590 | | 360 | | |
| | 10th February 2014 to 28th February 2014 | 00-17 23-24 | 720 | 50 | 670 | 230 | 440 | | |
| | | 17-23 | 640 | | 590 | | 360 | | |
| WR | | | | | | | | | |
| SR | 1st February 2014 to 28th February 2014 | 00-05 10-19 | 1550 | 0 | 1550 | 1550 | 0 | | |
| | | 05-10 | 1550 | | 1550 | | 0 | | |
| | | 19-24 | 1550 | | 1550 | | 0 | | |

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

2. ER-NR Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff 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 February 2014 to 28th February 2014 | 00-17 23-24 | 3500 | 700 | 2800 | 286 | 2514 | | |
| | | 17-23 | 3600 | | 2900 | | 2614 | | |
| NER | 1st February 2014 to 28th February 2014 | 00-17 23-24 | 570 | 100 | 470 | 0 | 470 | | |
| | | 17-23 | 570 | | 470 | | 470 | | |
| WR | | | | | | | | | |
| SR* | 1st February 2014 to 28th February 2014 | 00-17 23-24 | 2100 | 0 | 2100 | 197 | 1903 | | |
| | | 17-23 | 2100 | | 2100 | | 1903 | | |

* 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 Kahalgaon-Biharshariff 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 Kahalgaon-Biharshariff |
| | Export | (n-1) contingency of 400 kV Farakka-Malda |
| SR | Import | 1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO) 3. Considering transfer capability assessment by CTU on NEW-SR corridor. |
| | Export | |

*Primary constraints

National Load Despatch Centre
Total Transfer Capability for February 2014

| Revision No | Date of Revision | Period of Revision | Reason for Revision | Corridor Affected |
|-------------|------------------|---------------------|--|-------------------|
| 1 | 06-11-2013 | Whole Month | Revised considering the LTA/MTOA on NR-ER Path | NR-ER |
| 2 | 27-11-2013 | Whole Month | Revised due to change in Load Generation in WR/NR | WR-NR |
| | | | Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea. | ER-NR/ER-NER |
| | | | Revised due to change in Inter-Regional flow pattern and Load generation change in ER/WR. | W3 Zone Injection |
| 3 | 22-01-2014 | Whole Month | Revised due to commissioning of 765kV Raichur-Sholapur S/C | WR-SR/ER-SR |
| 4 | 29-01-2014 | 01.02.14 - 06.02.14 | Revised due to shutdown of 400kV Kahalgaon-Biharshariff D/C | ER-NR/ER-NER |
| | | 07.02.14 - 28.02.14 | Revised due to shutdown of TEESTA Power Station | ER-NR |
| | | Whole Month | Revised due to Non-Commissioning of Kudankulam U-1, Vallur U-3 & NLC Exp U-1 | S1-S2 |
| 5 | 30-01-2014 | 01.02.14 - 06.02.14 | Revised due to change in ER and Inter-regional flow pattern. | ER-NER/ER-NR |
| 6 | 31-01-2014 | 01.02.14 | Revised due to shutdown of 400kV Seoni-Bhilai | W3 Zone Injection |
| 7 | 31-01-2014 | 01.02.14 | Revised due to shutdown of Purnea-Malda ckt-1 | ER-NER/ER-NR |
| 8 | 05-02-2014 | 06.02.14 - 28.02.14 | Revised due to restoration of 400 kV Kahalgaon-Biharshariff D/C | ER-NER/ER-NR |
| 9 | 07-02-2014 | 08.02.14 - 09.02.14 | Revised due to shutdown of 400 kV Purnea-Muzaffarpur D/C | ER-NR / ER-NER |
| | | 09.02.14 | Revised due to shutdown of 400 kV Jharsuguda-Rourkela 2 and 400 kV SEL-Rourkela 2 | W3-ER |
| 10 | 10-02-2014 | 11.02.14 | Revised due to shutdown of 400 kV Sterlite-Raigarh Ckt 1 | W3-ER |
| 11 | 11-02-2014 | 11.02.14 | Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2 | WR-NR |
| | | | Margin revised due to allocation of Power to Bangladesh. | W3-ER |
| | | | | |
| | | | | |