

**National Load Despatch Centre
Total Transfer Capability for February 2015**

Issue Date: 30/1/2015

Issue Time: 1630 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) | Changes in TTC w.r.t. Last Revision | Comments | |
|---|---|------------------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|--|-----|
| NR-WR * | 1st February 2015 to 28th February 2015 | 00-24 | 2500 | 500 | 2000 | 1055 | 945 | | | |
| WR-NR | 1st February 2015 | 00-09 | 4700 | 500 | 4200 | 4768 | 0 | | Revised due to shutdown of 765kV Bus-I at Gwalior Substation. | |
| | | 09-24 | 4200 | | 3700 | | 0 | | | |
| | 2nd February 2015 to 28th February 2015 | 00-17 | 4700 | 500 | 4200 | 4768 | 0 | | | |
| | | 23-24 | 4700 | | 4200 | | 0 | | | |
| NR-ER* | 1st February 2015 to 28th February 2015 | 00-06 | 2000 | 200 | 1800 | 293 | 1507 | | | |
| | | 18-24 | | | 1800 | 358 | 1442 | | | |
| | | 06-18 | 2000 | | 2800 | 2431 | 369 | | | |
| ER-NR | 1st February 2015 to 28th February 2015 | 00-17 | 3100 | 300 | 2800 | 2431 | 369 | | | |
| | | 23-24 | | | | | 369 | | | |
| | | 17-23 | | | | | 369 | | | |
| W3-ER ^s | 1st February 2015 to 28th February 2015 | 00-24 | 1800 | 300 | 1500 | 351 | 1149 | | | |
| ER-W3 | 1st February 2015 to 28th February 2015 | 00-24 | 1000 | 300 | 700 | 973 | 0 | | | |
| WR-SR## | 1st February 2015 to 7th February 2015 | 00-05 | 2500 | 750 | 1750 | 1350 | 400 | 400 | Revised considering the present demand pattern of Maharashtra during off -peak conditions. | |
| | | 22-24 | | | | | 2100 | 1350 | | 0 |
| | 05-22 | 2100 | 750 | 1350 | 1350 | 0 | | | | |
| 8th February 2015 to 28th February 2015 | 00-24 | 2100 | 750 | 1350 | 1350 | 0 | | | | |
| | 00-24 | No limit is being Specified. | | | | | | | | |
| ER-SR## | 1st February 2015 to 28th February 2015 | 00-06 | 2650 | 0 | 2650 | 2585 | 65 | | | |
| | | 18-24 | | | | | 0 | | | |
| | | 06-18 | 2650 | | | | 0 | | | |
| SR-ER * | 1st February 2015 to 28th February 2015 | 00-24 | No limit is being Specified. | | | | | | | |
| ER-NER | 1st February 2015 to 28th February 2015 | 00-17 | 650 | 50 | 600 | 210 | 390 | | | |
| | | 23-24 | | | 670 | | 460 | | | |
| | | 17-23 | 720 | | 620 | | 60 | | | |
| NER-ER | 1st February 2015 to 28th February 2015 | 00-17 | 650 | 30 | 620 | 0 | 620 | 60 | Revised due to network changes in NER Grid post commissioning of 400 kV Azara - Bongaigaon S/C | |
| | | 23-24 | | | | | | | | 670 |
| | | 17-23 | 710 | | 670 | | 120 | | | |
| S1-S2 | 1st February 2015 | 00-24 | 3200 | 315 | 2885 | 2520 | 365 | -235 | Revised due to 400kV Kalivindhapattu -Pugalur - 2 Shut Down. | |
| | 2nd February 2015 to 28th February 2015 | 00-24 | 3435 | 315 | 3120 | 2520 | 600 | | | |
| Import of Punjab | 1st February 2015 to 28th February 2015 | 00-24 | 5700 | 300 | 5400 | 3790 | 1610 | | | |
| Import TTC for DD & DNH | 1st February 2015 to 28th February 2015 | 00-24 | 1200 | 0 | 1200 | LTA and MTOA as per ex-pp schedule | | | | |
| W3 zone Injection | 1st February 2015 to 28th February 2015 | 00-17 | 9400 | 200 | 9200 | 6862 | 2338 | | | |
| | | 23-24 | | | 9700 | | 2838 | | | |
| | | 17-23 | 9900 | | 9700 | | 2838 | | | |

* 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).

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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 |
|--|------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
| ## 1) 215 MW quantum of LTA is not being scheduled as per the CERC order dated 1st Oct 2014 for petition number 92/MP/2014 ## 2) 211 MW quantum of MTOA is not being scheduled as per the communication sent by GM (commercial), Powergrid dated 30th Sep 2014. ## 3) considering (1), (2) & likelihood of commencement of above transactions, the margins would be released for short term transactions on day ahead basis. | | | | | | | | | |

\$ As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.

- 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 Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, 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)JDB Power, m) KWPCCL, n)Vandana Vidut

The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned the LTA/MTOA utilized would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.

In case of TTC Revision due to any shutdown :

- 1) The TTC value will be revised to normal values after restoration of shutdown.
- 2) The TTC value will be revised to normal values if the shutdown is not being availed in real time.

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 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda). |
| NR-ER | (n-1) contingency of 400 kV Saranath-Pusauli |
| ER-NR | High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit flows on ER-WR-NR corridor. |
| W3-ER | i. (n-1) Contingency of 400 kV MPL-Maithon S/C ii. (n-1) contingency of 400kV Sterlite-Rourkela S/C |
| ER-W3 | (n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela |
| WR-SR & ER-SR | 1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge. |
| ER-NER | n-1 contingencies of 400KV Kahalgaon-Banka S/C and 400 kV Farraka-Malda S/C. |
| NER-ER | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa |
| S1-S2 | (n-1) contingency of one circuit of 400 kV Kolar-Hosur |
| Import of DD & DNH | (n-1) contingency of 400/220KV 315MVA ICT at VAPI |
| Import of Punjab | (n-1) contingency of ICT at Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL) |
| W3 zone Injection | (n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (850 MW SPS setting on each circuit of 400kV 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 | | | | | | | | | |
| NR | 1st February 2015 | 00-09 | 7800 | 800 | 7000 | 7199 | 0 | | Revised due to shutdown of 765kV Bus-I at Gwalior Substation. |
| | | 09-24' | 7300 | | 6500 | | 0 | | |
| | 2nd February 2015 to 28th February 2015 | 00-17 23-24 | 7800 | 800 | 7000 | 7199 | 0 | | |
| | | 17-23 | 7800 | | 7000 | | 0 | | |
| NER | 1st February 2015 to 28th February 2015 | 00-17 23-24 | 650 | 50 | 600 | 210 | 390 | | |
| | | 17-23 | 720 | | 670 | | 460 | | |
| WR | | | | | | | | | |
| SR [#] | 1st February 2015 to 7th February 2015 | 00-05 | 5150 | 750 | 4400 | 3935 | 465 | 400 | Revised considering the present demand pattern of Maharashtra during off -peak conditions. |
| | | 05-06' | 4750 | | 4000 | 4000 | 0 | | |
| | | 06-18' | 4750 | | 4000 | 4000 | 0 | | |
| | | 18-22' | 4750 | | 4000 | 3935 | 65 | | |
| | | 22-24' | 5150 | | 4400 | 3935 | 465 | | |
| | 8th February 2015 to 28th February 2015 | 00-06 18-24 | 4750 | 750 | 4000 | 3935 | 65 | | |
| | | 06-18' | 4750 | | 4000 | 4000 | 0 | | |

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 2015 to 28th February 2015 | 00-06 18-24 | 4500 | 700 | 3800 | 1348 | 2452 | | |
| | | 06-18' | 4500 | | 3800 | 1413 | 2387 | | |
| NER | 1st February 2015 to 28th February 2015 | 00-17 23-24 | 650 | 30 | 620 | 0 | 620 | 60 | Revised due to network changes in NER Grid post commissioning of 400 kV Azara - Bongaigaon S/C |
| | | 17-23 | 710 | 40 | 670 | | 670 | 120 | |
| WR | | | | | | | | | |
| SR * | 1st February 2015 to 28th February 2015 | 00-24 | No limit is being Specified. | | | | | | |

* 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) 215 MW quantum of LTA is not being scheduled as per the CERC order dated 1st Oct 2014 for petition number 92/MP/2014
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3) considering (1), (2) & likelihood of commencement of above transactions, the margins would be released for short term transactions on day ahead basis.

Limiting Constraints

| | | |
|-----|--------|--|
| NR | Import | High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit flows on ER-WR-NR corridor. High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda). |
| | Export | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli |
| NER | Import | n-1 contingencies of 400kV Kahalgaon-Banka S/C and 400 kV Farraka-Malda S/C. |
| | Export | (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa |
| SR | Import | 1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge. |

*Primary constraints

**National Load Despatch Centre
Total Transfer Capability for Feburary 2015**

| Revision No | Date of Revision | Period of Revision | Reason for Revision |
|--------------------|-------------------------|---------------------------|---|
| 1 | 29-12-2014 | Whole Month | Margin revised due to change in LTA/MTOA. |
| | | | Revised considering change in LTA/MTOA and the New Transmission system commissioned. |
| | | | Margin revised due to COD of SASAN Unit-5. |
| 2 | 22-01-2014 | Whole Month | Revised due to LGBR Revision by constituents & KKNPP Unit-1, commissioning of Coastal Energen Unit-1. |
| 3 | 30-01-2014 | 01-02-2015 | Revised due to shutdown of 765kV Bus-I at Gwalior Substation. |
| | | 01-02-2015 to 07-02-2015 | Revised considering the present demand pattern of Maharashtra during off -peak conditions. |
| | | Whole Month | Revised due to network changes in NER Grid post commissioning of 400 kV Azara - Bongaigaon S/C |
| | | 01-02-2015 | Revised due to 400kV Kalivindhapattu -Pugalur - 2 Shut Down. |
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