

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

Issue Date: 22/12/2013

Issue Time: 1400 hrs

Revision No. 20

| Corridor                                 | Date                                     | Time Period (hrs) | Total Transfer Capability (TTC) | Reliability Margin (RM) | 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 December 2013 to 31st December 2013  | 00-24             | 2500                            | 500                     | 2000                                | 361  | 1639   |                                     |          |
| WR-NR <sup>1</sup>                       | 1st December 2013 to 14th December 2013  | 00-17             | 3900                            | 500                     | 3400                                | 3181   | 219  |                                     |          |
|  |  | 23-24             |                                 |                         | 3400                                |  | 219  |                                     |          |
|  | 15th December 2013                       | 17-23             | 3900                            | 500                     | 3400                                | 3181   | 219  |                                     |          |
|  |  | 00-11             | 3900                            |                         | 3400                                |  | 219  |                                     |          |
|  |  | 11-17'            | 2200                            |                         | 1700                                |  | 0  |                                     |          |
|  | 16th December 2013                       | 17-24             | 3450                            | 500                     | 2950                                | 3181   | 0  |                                     |          |
|  |  | 00-20             | 3450                            |                         | 2950                                |  | 0  |                                     |          |
|  |  | 20-23             | 3900                            |                         | 3400                                |  | 219  |                                     |          |
|  | 17th December 2013 to 20th December 2013 | 00-17             | 3900                            | 500                     | 3400                                | 3181   | 219  |                                     |          |
|  |  | 23-24             |                                 |                         | 3400                                |  | 219  |                                     |          |
|  | 21st December 2013 to 23rd December 2013 | 17-23             | 3900                            | 500                     | 3400                                | 3181   | 219  |                                     |          |
|  |  | 00-07             | 3900                            |                         | 3400                                |  | 219  |                                     |          |
|  | 24th December 2013                       | 07-21'            | 3450                            | 500                     | 2950                                | 3181   | 0  |                                     |          |
|  |  | 00-07             | 3900                            |                         | 3400                                |  | 219  |                                     |          |
|  | 25th December 2013                       | 07-24'            | 3450                            | 500                     | 2950                                | 3181   | 0  |                                     |          |
|  |  | 00-21             | 3450                            |                         | 2950                                |  | 0  |                                     |          |
|  | 26th December 2013 to 28th December 2013 | 21-24             | 3900                            | 500                     | 3400                                | 3181   | 219  |                                     |          |
|  |  | 00-07             | 3900                            |                         | 3400                                |  | 219  |                                     |          |
| 29th December 2013 to 31st December 2013 | 07-21'                                   | 3450              | 500                             | 2950                    | 3181                                | 0  |  |                                     |          |
|  | 00-17                                    | 3900              |                                 | 3400                    |                                     | 219  |  |                                     |          |
|  |  | 17-23             | 3900                            |                         | 3400                                |  | 219  |                                     |          |
| NR-ER *                                  | 1st December 2013 to 31st December 2013  | 00-17             | 1000                            | 200                     | 800                                 | 200  | 600  |                                     |          |
|  |  | 23-24             |                                 |                         | 900                                 |  | 700  |                                     |          |
|  |  | 17-23             | 1100                            |                         |                                     |  |  |                                     |          |
| ER-NR                                    | 1st December 2013 to 31st December 2013  | 00-24             | 3800                            | 300                     | 3500                                | 2363   | 1137   |                                     |          |
| W3-ER                                    | 1st December 2013 to 2nd December 2013   | 00-24             | 1800                            | 300                     | 1500                                | 0  | 1500   |                                     |          |
|  | 3rd December 2013                        | 00-08             | 1800                            | 300                     | 1500                                | 0  | 1500   |                                     |          |
|  |  | 15-24             |                                 | 1500                    | 300                                 | 1200   | 0  | 1200                                |          |
|  | 08-15'                                   | 1500              | 300                             | 1200                    | 0                                   | 1200   |  |                                     |          |
|  | 04th December 2013 to 09th December 2013 | 00-24             | 1800                            | 300                     | 1500                                | 0  | 1500   |                                     |          |
|  | 10th December 2013                       | 00-09             | 1800                            | 300                     | 1500                                | 0  | 1500   |                                     |          |
|  |  | 19-24             |                                 | 1500                    | 300                                 | 1200   | 0  | 1200                                |          |
| 09-19'                                   | 1500                                     | 300               | 1200                            | 0                       | 1200                                |  |  |                                     |          |
| 11th December 2013                       | 00-09                                    | 1800              | 300                             | 1500                    | 0                                   | 1500   |  |                                     |          |
|  | 19-24                                    |                   | 1500                            | 300                     | 1200                                | 0  | 1200   |                                     |          |
| 09-19'                                   | 1500                                     | 300               | 1200                            | 0                       | 1200                                |  |  |                                     |          |
| 12th December 2013 to 31st December 2013 | 00-24                                    | 1800              | 300                             | 1500                    | 0                                   | 1500   |  |                                     |          |
| ER-W3                                    | 1st December 2013 to 31st December 2013  | 00-24             | 1000                            | 300                     | 700                                 | 700  | 0  |                                     |          |
| WR-SR                                    | 1st December 2013 to 16th December 2013  | 00-24             | 1000                            | 0                       | 1000                                | 1000   | 0  |                                     |          |
|  | 17th December 2013 to 18th December 2013 | 00-08             | 1000                            | 0                       | 1000                                | 1000   | 0  |                                     |          |
|  |  | 19-24             |                                 |                         | 500                                 |  | 0  |                                     |          |
| 08-19'                                   | 500                                      |                   | 500                             |                         |                                     |  |  |                                     |          |
| 19th December 2013 to 31st December 2013 | 00-24                                    | 1000              | 0                               | 1000                    | 1000                                | 0  |  |                                     |          |
| SR-WR *                                  | 1st December 2013 to 31st December 2013  | 00-24             | 1000                            | 0                       | 1000                                | 0  | 1000   |                                     |          |

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| Corridor            | Date  | Time Period (hrs)                          | Total Transfer Capability (TTC) | Reliability Margin (RM) | 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-SR               | 1st December 2013                           | 00-05<br>10-19                             | 1250                            | 200                     | 1050                                | 657  | 393  |                                     |          |
|                     |   | 05-10<br>19-24                             | 1250                            | 200                     | 1050                                |  | 393  |                                     |          |
|                     | 2nd December 2013 to<br>3rd December 2013   | 00-05<br>10-19                             | 1450                            | 200                     | 1250                                | 657  | 593  |                                     |          |
|                     |   | 05-10<br>19-24                             | 1450                            |                         | 1250                                |  | 593  |                                     |          |
| ER-SR               | 4th December 2013 to<br>5th December 2013   | 00-05<br>10-19                             | 1450                            | 200                     | 1250                                | 657  | 593  |                                     |          |
|                     |   | 05-10<br>19-24                             | 1450                            |                         | 1250                                |  | 593  |                                     |          |
|                     | 6th December 2013                           | 00-05<br>10-19                             | 750                             | 0                       | 750                                 | 657  | 93   |                                     |          |
|                     |   | 05-10<br>19-24                             | 1250                            | 200                     | 1050                                |  | 393  |                                     |          |
| ER-SR               | 7th December 2013                           | 00-05<br>10-19                             | 750                             | 0                       | 750                                 | 657  | 93   |                                     |          |
|                     |   | 05-10<br>19-24                             | 1250                            | 0                       | 1250                                |  | 593  |                                     |          |
|                     | 8th December 2013                           | 00-05                                      | 750                             | 0                       | 750                                 | 657  | 93   |                                     |          |
|                     |   | 05-07<br>19-24                             | 1250                            |                         | 1250                                |  | 593  |                                     |          |
|                     |   | 07-10'                                     | 900                             |                         | 900                                 |  | 243  |                                     |          |
|                     |   | 10-19'                                     | 400                             |                         | 400                                 |  | 0  |                                     |          |
|                     | 9th December 2013 to<br>10th December 2013  | 00-05<br>10-19                             | 750                             | 0                       | 750                                 | 657  | 93   |                                     |          |
|                     |   | 05-10<br>19-24                             | 1250                            | 0                       | 1250                                |  | 593  |                                     |          |
|                     | 11th December 2013 to<br>12th December 2013 | 00-05                                      | 750                             | 0                       | 750                                 | 657  | 93   |                                     |          |
|                     |   | 10-19'                                     | 450                             |                         | 450                                 |  | 0  |                                     |          |
|                     |   | 05-10<br>19-24                             | 1250                            |                         | 1250                                |  | 593  |                                     |          |
|                     | 13th December 2013 to<br>31st December 2013 | 00-05<br>10-19                             | 750                             | 0                       | 750                                 | 657  | 93   |                                     |          |
|                     |   | 05-10<br>19-24                             | 1250                            | 0                       | 1250                                |  | 593  |                                     |          |
|                     | SR-ER *                                     | 1st December 2013 to<br>31st December 2013 | 00-17<br>23-24                  | 800                     | 0                                   | 800  | 197  | 603                                 |          |
| 17-23               |   |  | 900                             | 900                     |                                     | 703  |  |                                     |          |
|                     |   |  |                                 |                         |                                     |  |  |                                     |          |
| ER-NER <sup>2</sup> | 1st December 2013 to<br>17th December 2013  | 00-17<br>23-24                             | 720                             | 50                      | 670                                 | 230  | 440  |                                     |          |
|                     |   | 17-23                                      | 640                             |                         | 590                                 |  | 360  |                                     |          |
|                     |   |  |                                 |                         |                                     |  |  |                                     |          |
|                     | 18th December 2013 to<br>20th December 2013 | 00-07<br>16-17<br>23-24                    | 720                             | 50                      | 670                                 | 230  | 440  |                                     |          |
|                     |   | 07-16'                                     | 700                             |                         | 650                                 |  | 420  |                                     |          |
|                     |   | 17-23                                      | 640                             |                         | 590                                 |  | 360  |                                     |          |
|                     |   |  |                                 |                         |                                     |  |  |                                     |          |
|                     | 21st December 2013                          | 00-08<br>11-17<br>23-24                    | 720                             | 50                      | 670                                 | 230  | 440  |                                     |          |
|                     |   | 08-11'                                     | 660                             |                         | 610                                 |  | 380  |                                     |          |
|                     |   | 17-23                                      | 640                             |                         | 590                                 |  | 360  |                                     |          |
|                     | 22nd December 2013 to<br>31st December 2013 | 00-17<br>23-24                             | 720                             | 50                      | 670                                 | 230  | 440  |                                     |          |
|                     |   | 17-23                                      | 640                             |                         | 590                                 |  | 360  |                                     |          |
| NER-ER              | 1st December 2013 to<br>20th December 2013  | 00-17<br>23-24                             | 570                             | 100                     | 470                                 | 0  | 470  |                                     |          |
|                     |   | 17-23                                      | 570                             |                         | 470                                 |  | 470  |                                     |          |
|                     | 21st December 2013                          | 00-08<br>11-17<br>23-24                    | 570                             | 100                     | 470                                 | 0  | 470  |                                     |          |
|                     |   | 08-11'                                     | 540                             |                         | 440                                 |  | 440  |                                     |          |
|                     |   | 17-23                                      | 570                             |                         | 470                                 |  | 470  |                                     |          |
|                     | 22nd December 2013 to<br>31st December 2013 | 00-17<br>23-24                             | 570                             | 100                     | 470                                 | 0  | 470  |                                     |          |
|                     |   | 17-23                                      | 570                             |                         | 470                                 |  | 470  |                                     |          |

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|--|--|-------------------|---------------------------------|-------------------------|-------------------------------------|--|--|-------------------------------------|----------|
| S1-S2                                    | 1st December 2013 to 20th December 2013  | 00-24             | 5600                            | 400                     | 5200                                | 4900   | 300  |                                     |          |
|  | 21st December 2013                       | 00-06             | 5600                            | 400                     | 5200                                | 4900   | 300  |                                     |          |
|  |  | 19-24             | 5200                            |                         | 4800                                |  | 0  |                                     |          |
|  | 22nd December 2013 to 31st December 2013 | 00-24             | 5600                            | 400                     | 5200                                | 4900   | 300  |                                     |          |
| Import of Punjab                         | 1st December 2013 to 31st December 2013  | 00-24             | 5600                            | 300                     | 5300                                | 3800   | 1500   |                                     |          |
| Import TTC for DD & DNH                  | 1st December 2013 to 31st December 2013  | 00-24             | 980                             | 0                       | 980                                 | LTA and MTOA as per ex-pp schedule                       |  |                                     |          |
| W3 zone Injection                        | 1st December 2013 to 16th December 2013  | 00-08             | 8500                            | 200                     | 8300                                | 7074   | 1226   |                                     |          |
|  |  | 23-24             | 8000                            |                         | 7800                                |  | 726  |                                     |          |
|  |  | 08-16'            | 9000                            |                         | 8800                                |  | 1726   |                                     |          |
|  |  | 16-17             | 9500                            |                         | 9300                                |  | 2226   |                                     |          |
| W3 zone Injection                        | 17th December 2013                       | 00-08             | 8500                            | 200                     | 8300                                | 7074   | 1226   |                                     |          |
|  |  | 08-16'            | 7500                            |                         | 7300                                |  | 226  |                                     |          |
|  |  | 16-17             | 8500                            |                         | 8300                                |  | 1226   |                                     |          |
|  |  | 17-23             | 9000                            |                         | 8800                                |  | 1726   |                                     |          |
|  | 18th December 2013 to 19th December 2013 | 23-24             | 8000                            | 200                     | 7800                                | 7074   | 726  |                                     |          |
|  |  | 08-16'            | 7500                            |                         | 7300                                |  | 226  |                                     |          |
|  |  | 16-17             | 8500                            |                         | 8300                                |  | 1226   |                                     |          |
|  |  | 17-23             | 9000                            |                         | 8800                                |  | 1726   |                                     |          |
|  | 20th December 2013                       | 00-08             | 8000                            | 200                     | 7800                                | 7074   | 726  |                                     |          |
|  |  | 08-16'            | 7500                            |                         | 7300                                |  | 226  |                                     |          |
|  |  | 16-17             | 8500                            |                         | 8300                                |  | 1226   |                                     |          |
|  |  | 17-19             | 9000                            |                         | 8800                                |  | 1726   |                                     |          |
| 21st December 2013 to 22nd December 2013 | 19-23                                    | 9500              | 200                             | 9300                    | 7074                                | 2226   |  |                                     |          |
|  | 23-24                                    | 8500              |                                 | 8300                    |                                     | 1226   |  |                                     |          |
|  | 00-08                                    | 8500              |                                 | 8300                    |                                     | 1226   |  |                                     |          |
|  | 08-16'                                   | 8000              |                                 | 7800                    |                                     | 726  |  |                                     |          |
| 23rd December 2013 to 24th December 2013 | 16-17                                    | 9000              | 200                             | 8800                    | 7074                                | 1726   |  |                                     |          |
|  | 17-19                                    | 9000              |                                 | 8800                    |                                     | 1726   |  |                                     |          |
|  | 19-23                                    | 9500              |                                 | 9300                    |                                     | 2226   |  |                                     |          |
|  | 00-08                                    | 8500              |                                 | 8300                    |                                     | 1226   |  |                                     |          |
| 25th December 2013 to 31st December 2013 | 08-16'                                   | 8000              | 200                             | 7800                    | 7074                                | 726  |  |                                     |          |
|  | 16-17                                    | 9000              |                                 | 8800                    |                                     | 1726   |  |                                     |          |
|  | 17-23                                    | 9500              |                                 | 9300                    |                                     | 2226   |  |                                     |          |
|  | 00-08                                    | 8500              |                                 | 8300                    |                                     | 1226   |  |                                     |          |

\* 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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|----------|------|-------------------|---------------------------------|-------------------------|-------------------------------------|--|--|-------------------------------------|----------|
|----------|------|-------------------|---------------------------------|-------------------------|-------------------------------------|--|--|-------------------------------------|----------|

**Limiting Constraints**

| Corridor          | Constraint   |
|-------------------|--|
| NR-WR             | (n-1) contingency of 400kV Zerda-Bhimmal 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*<br>(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<br>Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka<br>From 11th to 12th Dec: (n-1) contingency of 400 kV Jeypore-Indrawati<br>From 2nd to 5th Dec: (n-1) contingency of 400 kV Rourkela-Talcher & (n-1) contingency of 400 kV Jeypore-Gazuwaka |
| SR-ER             |  |
| ER-NER            | (n-1) contingency of 400kV Balipara-Bongaigaon*<br>(n-1) contingency of 400/220 kV,315 MVA ICT at Misa   |
| NER-ER            | (n-1) contingency of 400 kV Binaguri-Bongaigaon*<br>(n-1) contingency of 400 kV Balipara-Bongaigaon  |
| SI-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

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|--|--|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|-----|
| ER                                     |  |                   |                                 |                    |                                     |  |  |                                     |          |     |
| NR <sup>1</sup>                        | 1st December 2013 to 14th December 2013  | 00-17             | 7700                            | 800                | 6900                                | 5544   | 1356   |                                     |          |     |
|  |  | 23-24             |                                 |                    |                                     |  | 6900   | 1356                                |          |     |
|  | 15th December 2013                       | 00-11             | 7700                            | 800                | 6900                                | 5544   | 1356   |                                     |          |     |
|  |  | 11-17'            | 6000                            |                    |                                     |  | 5200   | 0                                   |          |     |
|  |  | 17-24             | 7250                            |                    |                                     |  | 6450   | 906                                 |          |     |
|  | 16th December 2013                       | 00-20             | 7250                            | 800                | 6450                                | 5544   | 906  |                                     |          |     |
|  |  | 20-23             | 7700                            |                    |                                     |  | 6900   | 1356                                |          |     |
|  | 17th December 2013 to 20th December 2013 | 00-17             | 7700                            | 800                | 6900                                | 5544   | 1356   |                                     |          |     |
|  |  | 23-24             |                                 |                    |                                     |  | 6900   | 1356                                |          |     |
|  | 21st December 2013 to 23rd December 2013 | 00-07             | 7700                            | 500                | 7200                                | 5544   | 1656   |                                     |          |     |
|  |  | 21-24             |                                 |                    |                                     |  | 7250   | 6750                                | 0        |     |
|  | 24th December 2013                       | 00-07             | 7700                            | 500                | 7200                                | 5544   | 1656   |                                     |          |     |
|  |  | 07-24'            | 7250                            |                    |                                     |  | 6750   | 0                                   |          |     |
|  | 25th December 2013                       | 00-21             | 7250                            | 500                | 6750                                | 5544   | 0  |                                     |          |     |
|  |  | 21-24             | 7700                            |                    |                                     |  | 7200   | 1656                                |          |     |
|  | 26th December 2013 to 28th December 2013 | 00-07             | 7700                            | 500                | 7200                                | 5544   | 1656   |                                     |          |     |
|  |  | 21-24             |                                 |                    |                                     |  | 7250   | 6750                                | 0        |     |
|  | 29th December 2013 to 31st December 2013 | 00-17             | 7700                            | 500                | 7200                                | 5544   | 1656   |                                     |          |     |
| 23-24                                  |  | 7700              |                                 |                    |                                     |  | 7200   | 1656                                |          |     |
| NER <sup>2</sup>                       | 1st December 2013 to 17th December 2013  | 00-17             | 720                             | 50                 | 670                                 | 230  | 440  |                                     |          |     |
|  |  | 23-24             |                                 |                    |                                     |  | 640  | 590                                 | 360      |     |
|  | 18th December 2013 to 20th December 2013 | 00-07             | 720                             | 50                 | 670                                 | 230  | 440  |                                     |          |     |
|  |  | 16-17             |                                 |                    |                                     |  | 700  | 650                                 | 420      |     |
|  |  | 23-24             |                                 |                    |                                     |  | 700  | 590                                 | 360      |     |
|  | 21st December 2013                       | 00-08             | 720                             | 50                 | 670                                 | 230  | 440  |                                     |          |     |
|  |  | 11-17             |                                 |                    |                                     |  | 660  | 610                                 | 380      |     |
|  |  | 23-24             |                                 |                    |                                     |  | 640  | 590                                 | 360      |     |
|  | 22nd December 2013 to 31st December 2013 | 00-17             | 720                             | 50                 | 670                                 | 230  | 440  |                                     |          |     |
|  |  | 23-24             |                                 |                    |                                     |  | 640  | 590                                 | 360      |     |
|  | WR                                       |                   |                                 |                    |                                     |  |  |                                     |          |     |
|  | SR                                       | 1st December 2013 | 00-05                           | 2250               | 200                                 | 2050   | 1657   | 393                                 |          |     |
| 10-19                                  |  |                   | 2250                            |                    |                                     |  |  | 200                                 | 2050     | 393 |
| 2nd December 2013 to 3rd December 2013 |  | 00-05             | 2450                            | 200                | 2250                                | 1657   | 593  |                                     |          |     |
|  |  | 10-19             | 2450                            |                    | 2250                                |  | 593  |                                     |          |     |
| 4th December 2013 to 5th December 2013 |  | 00-05             | 2450                            | 200                | 2250                                | 1657   | 593  |                                     |          |     |
|  |  | 10-19             | 2450                            |                    | 2250                                |  | 593  |                                     |          |     |
| 6th December 2013                      |  | 00-05             | 1750                            | 0                  | 1750                                | 1657   | 93   |                                     |          |     |
|  |  | 10-19             | 2250                            | 200                | 2050                                |  | 393  |                                     |          |     |
| 7th December 2013                      |  | 00-05             | 1750                            | 0                  | 1750                                | 1657   | 93   |                                     |          |     |
|  |  | 10-19             | 2250                            | 0                  | 2250                                |  | 593  |                                     |          |     |

**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 |
|--|--|--|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
|  | 8th December 2013                        | 00-05                                    | 1750                            | 0                  | 1750                                | 657  | 1093   |                                     |          |
|  |  | 05-07                                    | 2250                            |                    | 2250                                |  | 1593   |                                     |          |
|  |  | 19-24                                    | 1900                            |                    | 1900                                |  | 1243   |                                     |          |
|  |  | 07-10'                                   | 1400                            |                    | 1400                                |  | 0  |                                     |          |
|  | 9th December 2013 to 10th December 2013  | 00-05                                    | 1750                            | 0                  | 1750                                | 1657   | 93   |                                     |          |
|  |  | 10-19                                    | 2250                            | 0                  | 2250                                |  | 593  |                                     |          |
|  | 11th December 2013 to 12th December 2013 | 00-05                                    | 1750                            | 0                  | 1750                                | 1657   | 93   |                                     |          |
|  |  | 10-19'                                   | 1450                            |                    | 1450                                |  | 0  |                                     |          |
|  |  | 05-10                                    | 2250                            |                    | 2250                                |  | 593  |                                     |          |
|  | 13th December 2013 to 16th December 2013 | 00-05                                    | 1750                            | 0                  | 1750                                | 1657   | 93   |                                     |          |
|  |  | 10-19                                    | 2250                            | 0                  | 2250                                |  | 593  |                                     |          |
|  | SR                                       | 17th December 2013 to 18th December 2013 | 00-05                           | 1750               | 0                                   | 1750   | 1657   | 93                                  |          |
| 10-19                                    |  |  | 1750                            | 1750               |                                     | 93   |  |                                     |          |
| 08-10'                                   |  |  | 1150                            | 1150               |                                     | 0  |  |                                     |          |
| 10-19'                                   |  |  | 2250                            | 2250               |                                     | 593  |  |                                     |          |
| 19th December 2013 to 31st December 2013 |  | 00-05                                    | 1750                            | 0                  | 1750                                | 1657   | 93   |                                     |          |
|  |  | 10-19                                    | 2250                            | 0                  | 2250                                |  | 593  |                                     |          |
|  |  | 05-10                                    |                                 |                    |                                     |  |  |                                     |          |
|  |  | 19-24                                    |                                 |                    |                                     |  |  |                                     |          |

**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.**

**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 December 2013 to 31st December 2013  | 00-17                                   | 3500                            | 700                | 2800                                | 561  | 2239   |                                     |          |
|          |  | 23-24                                   | 3600                            |                    | 2900                                |  | 2339   |                                     |          |
| NER      | 1st December 2013 to 20th December 2013  | 00-17                                   | 570                             | 100                | 470                                 | 0  | 470  |                                     |          |
|          |  | 23-24                                   | 570                             |                    | 470                                 |  | 470  |                                     |          |
|          | 21st December 2013                       | 00-08                                   | 570                             | 100                | 470                                 | 0  | 470  |                                     |          |
|          |  | 11-17                                   | 540                             |                    | 440                                 |  | 440  |                                     |          |
|          |  | 23-24                                   | 570                             |                    | 470                                 |  | 470  |                                     |          |
|          | 22nd December 2013 to 31st December 2013 | 00-17                                   | 570                             | 100                | 470                                 | 0  | 470  |                                     |          |
|          |  | 23-24                                   | 570                             |                    | 470                                 |  | 470  |                                     |          |
|          | NER                                      | 1st December 2013 to 31st December 2013 | 00-17                           | 570                | 100                                 | 470  | 0  | 470                                 |          |
| 23-24    |  |   | 570                             | 470                |                                     | 470  |  |                                     |          |
| WR       |  |   |                                 |                    |                                     |  |  |                                     |          |
| SR*      | 1st December 2013 to 31st December 2013  | 00-17                                   | 1800                            | 0                  | 1800                                | 197  | 1603   |                                     |          |
|          |  | 23-24                                   | 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).

**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 |
|----------|------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
|----------|------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|

**Limiting Constraints**

|     |               |   |
|-----|---------------|---|
| NR  | <b>Import</b> | (n-1) contingency of 400 kV Kahalgaon-Biharsharif*<br>High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)  |
|     | <b>Export</b> | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.<br>(n-1) contingency of 400 kV Allahabad-Pusauli   |
| NER | <b>Import</b> | (n-1) contingency of 400kV Balipara-Bongaigaon*<br>(n-1) contingency of 400/220 kV,315 MVA ICT at Misa  |
|     | <b>Export</b> | (n-1) contingency of 400 kV Binaguri-Bongaigaon*<br>(n-1) contingency of 400 kV Balipara-Bongaigaon   |
| SR  | <b>Import</b> | Bhadrawati HVDC B/B link capacity<br>1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka<br>From 11th to 12th Dec: (n-1) contingency of 400 kV Jeypore-Indrawati<br>From 2nd to 5th Dec: (n-1) contingency of 400 kV Rourkela-Talcher &(n-1) contingency of 400 kV Jeypore-Gazuwaka |
|     | <b>Export</b> |   |

\*Primary constraints

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

| Revision No | Date of Revision | Period of Revision         | Reason for Revision  | Corridor Affected |
|-------------|------------------|----------------------------|--|-------------------|
| 1           | 10-09-13         | Whole Month                | Revised due to commissioning of Sasan UMPP Unit 30   | WR-NR             |
|             |                  |                            | Increase in share of Punjab from Sasan, DSTPS, Parbati-III                                     | Import of Punjab  |
| 2           | 09-10-13         | Whole Month                | Revised considering SPS setting of 1000 MW on each circuit of 765 kV Agra-Gwalior              | WR-NR             |
|             |                  |                            | Margin revised considering reduction in MTOA quantum.  | W3                |
| 3           | 29-10-13         | Whole Month                | Margin on NR-ER Corridor revised considering the LTA/MTOA on NR-ER Path                        | NR-ER             |
| 4           | 27-11-13         | 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      |
|             |                  |                            | Change in Load Generation Balance in ER  | ER-SR             |
|             |                  |                            | Revised due to Non-Commissioning of Kundankulam and NLC-II Exp unit-1.                         | S1-S2             |
|             |                  |                            | Revised due to change in Inter-Regional flow pattern and Load generation change in ER/WR.      | W3 Zone Injection |
| 5           | 27-11-13         | Whole Month                | Reliability Margin included.   | ER-SR             |
|             |                  |                            | Revised due to increase in LTA/MTOA quantum.   | NR-WR             |
| 6           | 27-11-13         | 1st Dec 13 to 2nd Dec 13   | Revised due to reduction in Talcher Stage-2 Generation   | ER-SR             |
| 7           | 01-12-13         | 2nd Dec 13 to 3rd Dec 13   | Revised due to reduction in Talcher Stage-2 Generation   | ER-SR             |
| 8           | 02-12-13         | 3rd Dec 13                 | Revised due to emergency shutdown of 400 kV SEL-Rourkela Ckt 1                                 | W3-ER             |
| 9           | 03-12-13         | 4th Dec 13 to 6th Dec 13   | Revised due to reduction in Talcher Stage-2 Generation   | ER-SR             |
| 10          | 05-12-13         | 06th Dec 13                | Revised due to increase in Talcher Stage-2 Generation  | ER-SR             |
| 11          | 06-12-13         | 7th Dec 13                 | Revised due to change in Load Generation Balance.  | ER-SR             |
| 12          | 07-12-13         | 8th Dec 13                 | Revised due to shutdown of 400kV Vijayawada-Nellore-1&2  | ER-SR             |
| 13          | 09-12-13         | 10th Dec 13                | Revised due to shutdown of 400 kV Raigarh-Jharsuguda-Rourkela Ckt 1                            | W3-ER             |
| 14          | 10-12-13         | 11th Dec 13 to 12th Dec 13 | Revised due to shutdown of 400kV Angul-JITPL   | ER-SR             |
|             |                  | 12th Dec 13                | Revised due to shutdown of 400 kV Raigarh-Jharsuguda-Rourkela Ckt 1                            | W3-ER             |
| 15          | 14-12-13         | 15th Dec 13                | Revised due to shutdown of 500kV HVDC Mundra-Mohindergarh Pole-1 and Pole-2                    | WR-NR             |
|             |                  | 16th Dec 13                | Revised due to shutdown of 500kV HVDC Mundra-Mohindergarh Pole-2                               |                   |
| 16          | 16-12-13         | 17th Dec 13 - 18th Dec 13  | Revised due to shutdown of HVDC Bhadrawati pole-1  | WR-SR             |
|             |                  | 17th Dec 13 - 20th Dec 13  | Revised due to shutdown of 765kV Seoni-Bina and 765kV Seoni-Wardha-2.                          | W3 Zone Injection |
| 17          | 17-12-13         | 18th Dec 13 - 20th Dec 13  | Revised due to shutdown of 220kV Sarusajai-Boko and 220kV Sarusajai-Agia                       | ER-NER            |
| 18          | 20-12-13         | 21st Dec 13 - 23rd Dec 13  | Revised due to shutdown of 500kV HVDC Mundra-Mohindergarh Pole-2                               | WR-NR             |
|             |                  | 24th Dec 13 - 28th Dec 13  | Revised due to shutdown of 500kV HVDC Mundra-Mohindergarh Pole-1 and Pole-2                    | WR-NR             |
|             |                  | 21st Dec 13                | Revised due to Shutdown of 400KV Banagalore-Salem  | S1-S2             |
| 19          | 21-12-13         | 21st Dec 13                | Revised due to Emergency shutdown of 220 kV BTPSi-Agia   | ER-NER/NER-ER     |
| 20          | 22-12-13         | 23rd Dec 13 - 24th Dec 13  | Revised due to Shutdown of 400kV Raipur-Wardha Ckt-2   | W3 zone Injection |



## ASSUMPTIONS IN BASECASE

Month : December '13

| S.No.      | Name of State/Area         | Load           |                    | Generation   |               |
|------------|----------------------------|----------------|--------------------|--------------|---------------|
|            |                            | Peak Load (MW) | Off Peak Load (MW) | Peak (MW)    | Off Peak (MW) |
| <b>I</b>   | <b>NORTHERN REGION</b>     |                |                    |              |               |
| 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         |
|            | <b>Total NR</b>            | <b>39554</b>   | <b>33100</b>       | <b>35321</b> | <b>28988</b>  |
| <b>II</b>  | <b>EASTERN REGION</b>      |                |                    |              |               |
| 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          |
|            | <b>Total ER</b>            | <b>14211</b>   | <b>11216</b>       | <b>18409</b> | <b>16653</b>  |
| <b>III</b> | <b>WESTERN REGION</b>      |                |                    |              |               |
| 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         |
|            | <b>Total WR</b>            | <b>39314</b>   | <b>32233</b>       | <b>44059</b> | <b>35650</b>  |

|           |                             |               |               |               |               |
|-----------|-----------------------------|---------------|---------------|---------------|---------------|
| <b>IV</b> | <b>SOUTHERN REGION</b>      |               |               |               |               |
| 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         |
|           | <b>Total SR</b>             | <b>33625</b>  | <b>27024</b>  | <b>31897</b>  | <b>25505</b>  |
|           |                             |               |               |               |               |
| <b>V</b>  | <b>NORTH-EASTERN REGION</b> |               |               |               |               |
| 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           |
|           | <b>Total NER</b>            | <b>2355</b>   | <b>1622</b>   | <b>1478</b>   | <b>1124</b>   |
|           |                             |               |               |               |               |
|           | <b>Total All India</b>      | <b>129059</b> | <b>105195</b> | <b>131164</b> | <b>107920</b> |