

**National Load Despatch Centre**  
**Total Transfer Capability for September 2016**

Issue Date: 28/5/2016

Issue Time: 1730 hrs

Revision No. 0

| 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 Sep 2016 to 30th Sep 2016 | 00-24             | 2500   | 500                | 2000                                | 149  | 1851   |                                     |          |
| WR-NR*             | 1st Sep 2016 to 30th Sep 2016 | 00-24             | 6700   | 500                | 6200                                | 6170   | 30   |                                     |          |
| NR-ER*             | 1st Sep 2016 to 30th Sep 2016 | 00-06             | 2000   | 200                | 1800                                | 293  | 1507   |                                     |          |
|                    |                               | 06-18'            | 2000   |                    | 1800                                | 358  | 1442   |                                     |          |
|                    |                               | 18-24             | 2000   |                    | 1800                                | 293  | 1507   |                                     |          |
| ER-NR*             | 1st Sep 2016 to 30th Sep 2016 | 00-24             | 4400   | 300                | 4100                                | 2531   | 1569   |                                     |          |
| W3-ER <sup>s</sup> | 1st Sep 2016 to 30th Sep 2016 | 00-24             | No limit is being specified.   |                    |                                     |  |  |                                     |          |
| ER-W3              | 1st Sep 2016 to 30th Sep 2016 | 00-24             | No limit is being specified.   |                    |                                     |  |  |                                     |          |
| WR-SR              | 1st Sep 2016 to 30th Sep 2016 | 00-24             | 4000   | 750                | 3250                                | 3250   | 0  |                                     |          |
| SR-WR *            | 1st Sep 2016 to 30th Sep 2016 | 00-24             | No limit is being Specified.   |                    |                                     |  |  |                                     |          |
| ER-SR              | 1st Sep 2016 to 30th Sep 2016 | 00-06             | 2650   | 0                  | 2650                                | 2585   | 65   |                                     |          |
|                    |                               | 18-24             |  |                    |                                     | 2650   | 0  |                                     |          |
|                    |                               | 06-18'            |  |                    |                                     | 2650   | 0  |                                     |          |
| SR-ER *            | 1st Sep 2016 to 30th Sep 2016 | 00-24             | No limit is being Specified.   |                    |                                     |  |  |                                     |          |
| ER-NER             | 1st Sep 2016 to 30th Sep 2016 | 00-17             | 1030   | 45                 | 985                                 | 210  | 775  |                                     |          |
|                    |                               | 23-24             |  |                    | 895                                 |  | 685  |                                     |          |
|                    |                               | 17-23             |  |                    | 940                                 |  |  |                                     |          |
| NER-ER             | 1st Sep 2016 to 30th Sep 2016 | 00-17             | 1530   | 45                 | 1485                                | 0  | 1485   |                                     |          |
|                    |                               | 23-24             |  |                    | 1455                                |  | 1455   |                                     |          |
|                    |                               | 17-23             |  |                    | 1500                                |  |  |                                     |          |
| W3 zone Injection  | 1st Sep 2016 to 30th Sep 2016 | 00-24             | No limit is being specified (in case of skewed inter-regional flows or any constraints appearing in the system, W3 zone export would be revised accordingly) |                    |                                     |  |  |                                     |          |

**Note: TTC/ATC of S1-S2 corridor, Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.**

\* 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).

**National Load Despatch Centre**  
**Total Transfer Capability for September 2016**

Issue Date: 28/5/2016

Issue Time: 1730 hrs

Revision No. 0

| 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) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry

2) 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)DB Power, m) KWPCCL, n)Vandana Vidyut o)RKM, p)GMR Raikheda, q)Ind Barath and any other regional entity generator in Chhattisgarh

# 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             | 1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.<br>2.High Loading of 400kV Singrauli-Anpara S/C.                                      |
| NR-ER             | (n-1) contingency of 400 kV Saranath-Pusauli   |
| ER-NR             | n-1 contingency of one circuit of 400 kV Biharsharif- Lakhisarai leads to high loading on the other circuit  |
| WR-SR & ER-SR     | (n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit<br>Low Voltage at Gazuwaka (East) Bus.                               |
| ER-NER            | (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. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar |
| 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   |
| W3 zone Injection | ---  |

**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 |
|------------|-------------------------------|-------------------|---------------------------------|--------------------|-------------------------------------|--|--|-------------------------------------|----------|
| <b>ER</b>  |                               |                   |                                 |                    |                                     |  |  |                                     |          |
| <b>NR*</b> | 1st Sep 2016 to 30th Sep 2016 | 00-05             | 9000                            | 800                | 8200                                | 8701   | 0  |                                     |          |
|            |                               | 05-08'            | 9000                            |                    | 8200                                |  | 0  |                                     |          |
|            |                               | 08-19'            | 9000                            |                    | 8200                                |  | 0  |                                     |          |
|            |                               | 19-24             | 9000                            |                    | 8200                                |  | 0  |                                     |          |
| <b>NER</b> | 1st Sep 2016 to 30th Sep 2016 | 00-17             | 1030                            | 45                 | 985                                 | 210  | 775  |                                     |          |
|            |                               | 23-24             |                                 |                    |                                     |  | 940  |                                     |          |
|            |                               | 17-23             | 940                             |                    | 895                                 |  | 685  |                                     |          |
| <b>WR</b>  |                               |                   |                                 |                    |                                     |  |  |                                     |          |
| <b>SR</b>  | 1st Sep 2016 to 30th Sep 2016 | 00-06             | 6650                            | 750                | 5900                                | 5835   | 65   |                                     |          |
|            |                               | 06-18'            | 6650                            |                    | 5900                                | 5900   | 0  |                                     |          |
|            |                               | 18-24             | 6650                            |                    | 5900                                | 5835   | 65   |                                     |          |

\* 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).

\* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio:  
 Margin in Simultaneous import of NR = A  
 WR-NR ATC =B  
 ER-NR ATC = C  
  
 Margin for WR-NR applicants =  $A * B/(B+C)$   
 Margin for ER-NR Applicants =  $A * C/(B+C)$

## 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 Sep 2016 to 30th Sep 2016 | 00-06             | 4500                            | 700                | 3800                                | 442  | 3358   |                                     |          |
|          |                               | 06-18'            |                                 |                    | 3800                                | 507  | 3293   |                                     |          |
|          |                               | 18-24             | 4500                            |                    | 3800                                | 442  | 3358   |                                     |          |
| NER      | 1st Sep 2016 to 30th Sep 2016 | 00-17             | 1530                            | 45                 | 1485                                | 0  | 1485   |                                     |          |
|          |                               | 23-24             | 1500                            |                    | 1455                                |  | 1455   |                                     |          |
|          |                               | 17-23             |                                 |                    |                                     |  |  |                                     |          |
| WR       |                               |                   |                                 |                    |                                     |  |  |                                     |          |
| SR *     | 1st Sep 2016 to 30th Sep 2016 | 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).

### Limiting Constraints

|     |        |   |
|-----|--------|---|
| NR  | Import | (n-1) contingency of one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit<br>1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.<br>2.High Loading of 400kV Singrauli-Anpara S/C. |
|     | Export | (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.<br>(n-1) contingency of 400 kV Saranath-Pusauli  |
| NER | Import | (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. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar  |
|     | Export | (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.   |
| SR  | Import | (n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit   |
|     |        | Low Voltage at Gazuwaka (East) Bus.   |

**National Load Despatch Centre  
Total Transfer Capability for September 2016**

| <b>Revision No</b> | <b>Date of Revision</b> | <b>Period of Revision</b> | <b>Reason for Revision</b> | <b>Corridor Affected</b> |
|--------------------|-------------------------|---------------------------|----------------------------|--------------------------|
|                    |                         |                           |                            |                          |

| ASSUMPTIONS IN BASECASE |                            |                |                    |                       |               |
|-------------------------|----------------------------|----------------|--------------------|-----------------------|---------------|
|                         |                            |                |                    | Month : September '16 |               |
| S.No.                   | Name of State/Area         | Load           |                    | Generation            |               |
|                         |                            | Peak Load (MW) | Off Peak Load (MW) | Peak (MW)             | Off Peak (MW) |
| I                       | NORTHERN REGION            |                |                    |                       |               |
| 1                       | Punjab                     | 9400           | 8059               | 5466                  | 5258          |
| 2                       | Haryana                    | 7798           | 7260               | 2610                  | 2610          |
| 3                       | Rajasthan                  | 10027          | 10099              | 6333                  | 6382          |
| 4                       | Delhi                      | 4844           | 4498               | 962                   | 962           |
| 5                       | Uttar Pradesh              | 13618          | 12577              | 7131                  | 7179          |
| 6                       | Uttarakhand                | 1688           | 1250               | 804                   | 722           |
| 7                       | Himachal Pradesh           | 1184           | 901                | 815                   | 850           |
| 8                       | Jammu & Kashmir            | 2246           | 1356               | 841                   | 807           |
| 9                       | Chandigarh                 | 286            | 191                | 0                     | 0             |
| 10                      | ISGS/IPPs                  | 0              | 0                  | 20482                 | 15017         |
|                         | Total NR                   | 51091          | 46191              | 45444                 | 39787         |
| II                      | EASTERN REGION             |                |                    |                       |               |
| 1                       | Bihar                      | 3260           | 2746               | 200                   | 110           |
| 2                       | Jharkhand                  | 1023           | 883                | 400                   | 350           |
| 3                       | Damodar Valley Corporation | 2582           | 2207               | 3400                  | 2871          |
| 4                       | Orissa                     | 3708           | 2852               | 2929                  | 2000          |
| 5                       | West Bengal                | 7601           | 6081               | 4768                  | 3830          |
| 6                       | Sikkim                     | 93             | 49                 | 0                     | 0             |
| 7                       | Bhutan                     | 215            | 215                | 1504                  | 1472          |
| 8                       | ISGS/IPPs                  | 415            | 419                | 9645                  | 9015          |
|                         | Total ER                   | 18897          | 15452              | 22846                 | 19647         |
| III                     | WESTERN REGION             |                |                    |                       |               |
| 1                       | Maharashtra                | 20103          | 13051              | 13552                 | 9451          |
| 2                       | Gujarat                    | 14488          | 8693               | 11414                 | 5676          |
| 3                       | Madhya Pradesh             | 8537           | 5486               | 4790                  | 2285          |
| 4                       | Chattisgarh                | 4088           | 2975               | 3236                  | 1989          |
| 5                       | Daman and Diu              | 314            | 229                | 0                     | 0             |
| 6                       | Dadra and Nagar Haveli     | 680            | 626                | 0                     | 0             |
| 7                       | Goa-WR                     | 487            | 221                | 0                     | 0             |
| 8                       | ISGS/IPPs                  | 902            | 904                | 28078                 | 22617         |
|                         | Total WR                   | 49599          | 32185              | 61071                 | 42019         |

|    |                      |        |        |        |        |
|----|----------------------|--------|--------|--------|--------|
|    |                      |        |        |        |        |
| IV | SOUTHERN REGION      |        |        |        |        |
| 1  | Andhra Pradesh       | 7073   | 5389   | 6385   | 5627   |
| 2  | Telangana            | 9564   | 7551   | 4263   | 2964   |
| 3  | Karnataka            | 9054   | 7496   | 6966   | 5130   |
| 4  | Tamil Nadu           | 14003  | 12691  | 7036   | 5417   |
| 5  | Kerala               | 3973   | 2663   | 1643   | 638    |
| 6  | Pondy                | 391    | 327    | 0      | 0      |
| 7  | Goa-SR               | 89     | 89     | 0      | 0      |
| 8  | ISGS/IPPs            | 28     | 28     | 14187  | 11953  |
|    | Total SR             | 44175  | 36234  | 40480  | 31729  |
|    |                      |        |        |        |        |
| V  | NORTH-EASTERN REGION |        |        |        |        |
| 1  | Arunachal Pradesh    | 130    | 102    | 0      | 0      |
| 2  | Assam                | 1228   | 1007   | 275    | 225    |
| 3  | Manipur              | 164    | 76     | 0      | 0      |
| 4  | Meghalaya            | 279    | 206    | 300    | 243    |
| 5  | Mizoram              | 93     | 63     | 8      | 0      |
| 6  | Nagaland             | 120    | 84     | 24     | 16     |
| 7  | Tripura              | 234    | 148    | 91     | 91     |
| 8  | ISGS/IPPs            | 100    | 60     | 1869   | 1763   |
|    | Total NER            | 2348   | 1746   | 2567   | 2338   |
|    |                      |        |        |        |        |
|    | Total All India      | 166356 | 132052 | 173941 | 136992 |