

# पावर सिस्टम ऑपरेशन कॉरपोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)



पंजीकृत एवं केन्द्रीय कार्यालय: बी-9, प्रथम तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110 016  
Registered & Corporate Office : B - 9, 1st Floor, Qutub Institutional Area, Katwaria Sarai, New Delhi - 110 016  
Website : www.posoco.in, www.nldc.in, Tel: 011-26536832, 26524522, Fax: 011-26524525, 26536901

संदर्भ संख्या:-POSOCO/NLDC/GM/

दिनांक: 26.09.2014

सेवा में,

वितरण सूची के अनुसार

विषय:- निष्पादन रिपोर्ट - अगस्त 2014

महोदय,

आई०ई०जी०सी०-2010 के प्रावधान के अनुसार, - अगस्त 2014 माह की अखिल भारतीय प्रणाली की निष्पादन रिपोर्ट

धन्यवाद

भवदीय

  
(एन. नललारसन) 26/9/14

अपर महाप्रबंधक

(रा०भा०प्रे०के०)

संलग्नक: मासिक प्रणाली रिपोर्ट

## वितरण सूची

### Distribution List

1. सचिव, के.वि.नि.आ. तीसरा एवं चौथा तल, चंद्रलोक भवन, 36, जनपथ, नई दिल्ली - 110001  
Secretary, CERC, 3<sup>rd</sup> & 4<sup>th</sup> Floor, Chanderlok Building, 36, Janpath, New Delhi-110001
2. मुख्य अभियंता, (जी एम), के. वि. प्रा., सेवा भवन , आर. के. पुरम , नई दिल्ली - 110066  
Chief Engineer (GM), CEA, Sewa Bhavan, R.K.Puram , New Delhi-110066
3. सदस्य सचिव, ऊ. क्षे. वि. स., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016  
Member Secretary, NRPC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
4. सदस्य सचिव, प. क्षे. वि. स., एफ-3, एम आई डी सी क्षेत्र , अंधेरी, मुंबई - 400093  
Member Secretary, WRPC, F-3, MIDC Area, Andheri (East), Mumbai-400093
5. सदस्य सचिव, द. क्षे. वि. स., 29, रेस कोर्स क्रॉस रोड, बंगलुरु - 560009  
Member Secretary, SRPC, 29, Race Course Cross Road, Bangalore-560009
6. सदस्य सचिव, पू. क्षे. वि. स., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Member Secretary, ERPC, 14, Golf Club Road , Kolkata-700033
7. सदस्य सचिव, ऊ. पू. क्षे. वि. स., मेघालय राज्य आवसीय वित्त सहकारी समिति लिमिटेड भवन , नॉग्रिम हिल्स, शिलॉंग - 793003  
Member Secretary, NERPC, Meghalaya State Housing Finance Cooperative Society Ltd. Building, Nongrim Hills , Shillong -793003
8. महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड , कोलकाता - 700033  
General Manager, ERLDC, 14, Golf Club Road , Kolkata-700033
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11. कार्यपालक निदेशक, द. क्षे. भा. प्रे. के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु - 560009  
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009
12. महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिह, लोअर नॉग्रह , लापलंग, शिलॉंग - 793006  
General Manager, NERLDC, Dongtieh, Lower Nongrah, Laplang, Shillong-793006



# POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE –राष्ट्रीय भार प्रेषण केन्द्र

मासिक ऑपरेशन रिपोर्ट

Monthly  
Operation Report



अगस्त 2014

पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

POWER SYSTEM OPERATION CORPORATION LTD  
NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



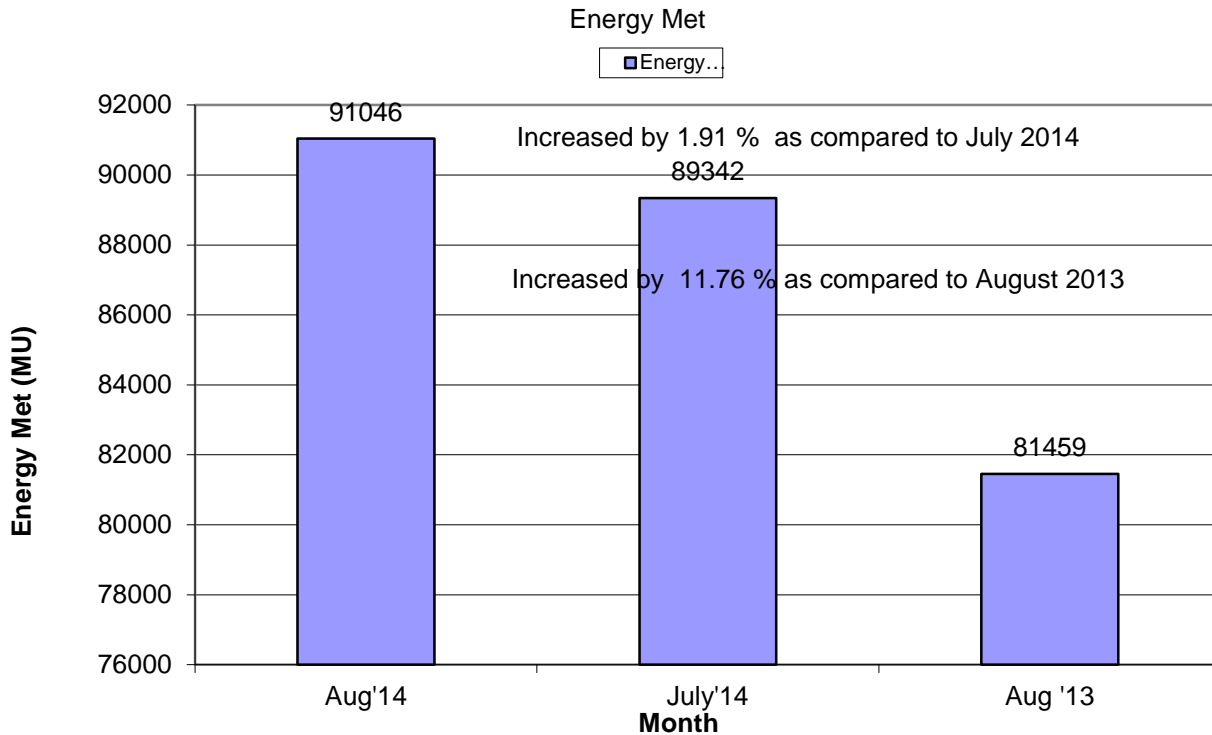
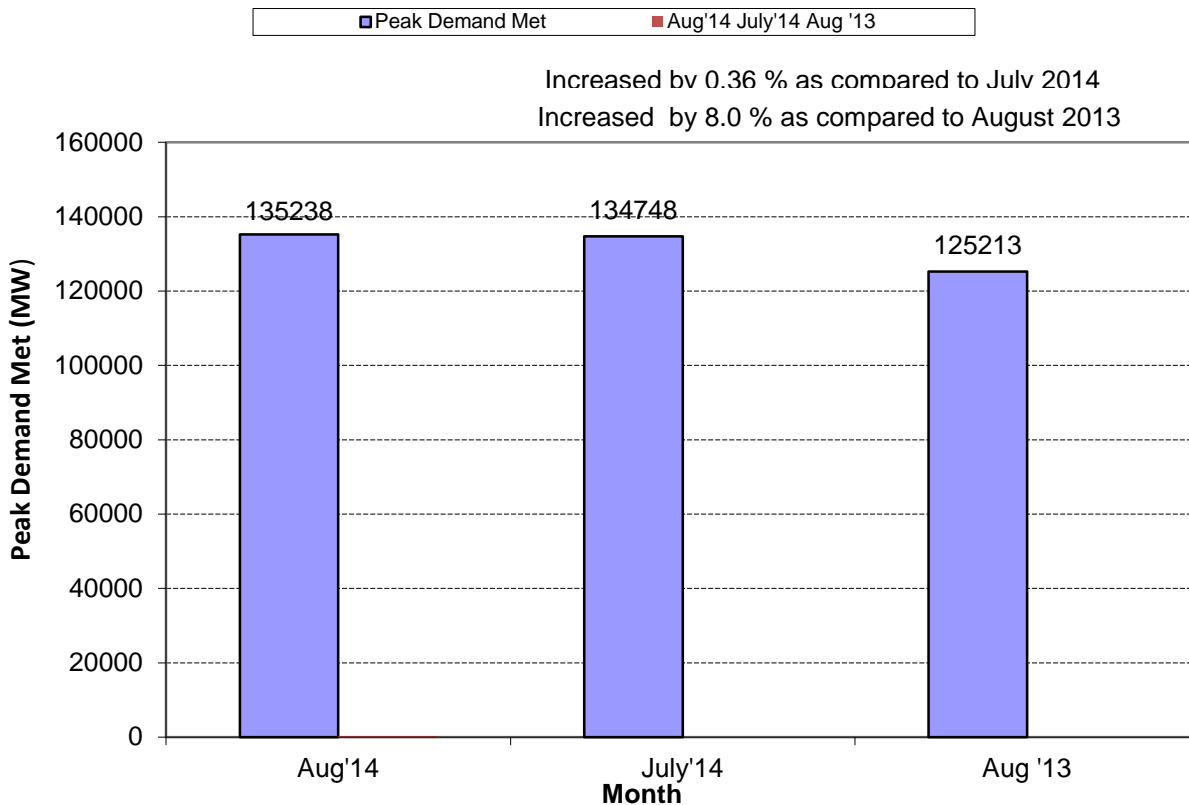
माह अगस्त 2014 के लिए प्रचालन निष्पादन रिपोर्ट  
OPERATIONAL PERFORMANCE REPORT FOR THE  
MONTH OF AUGUST 2014

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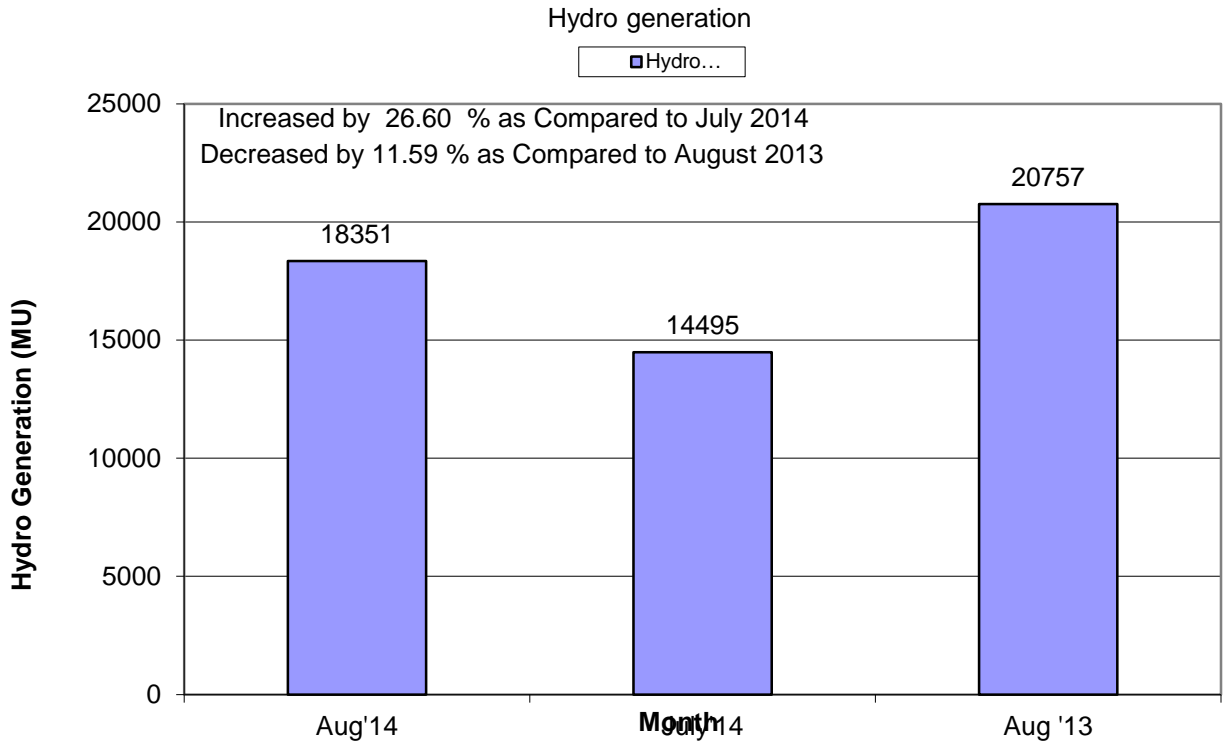
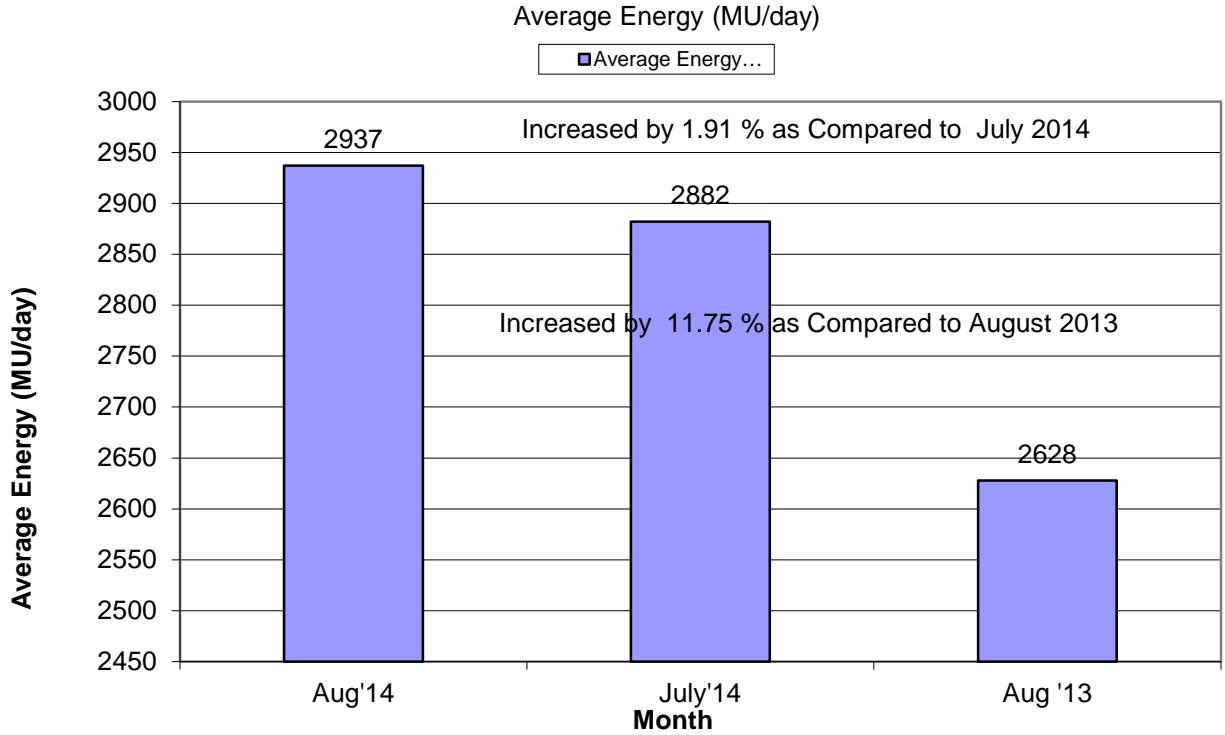
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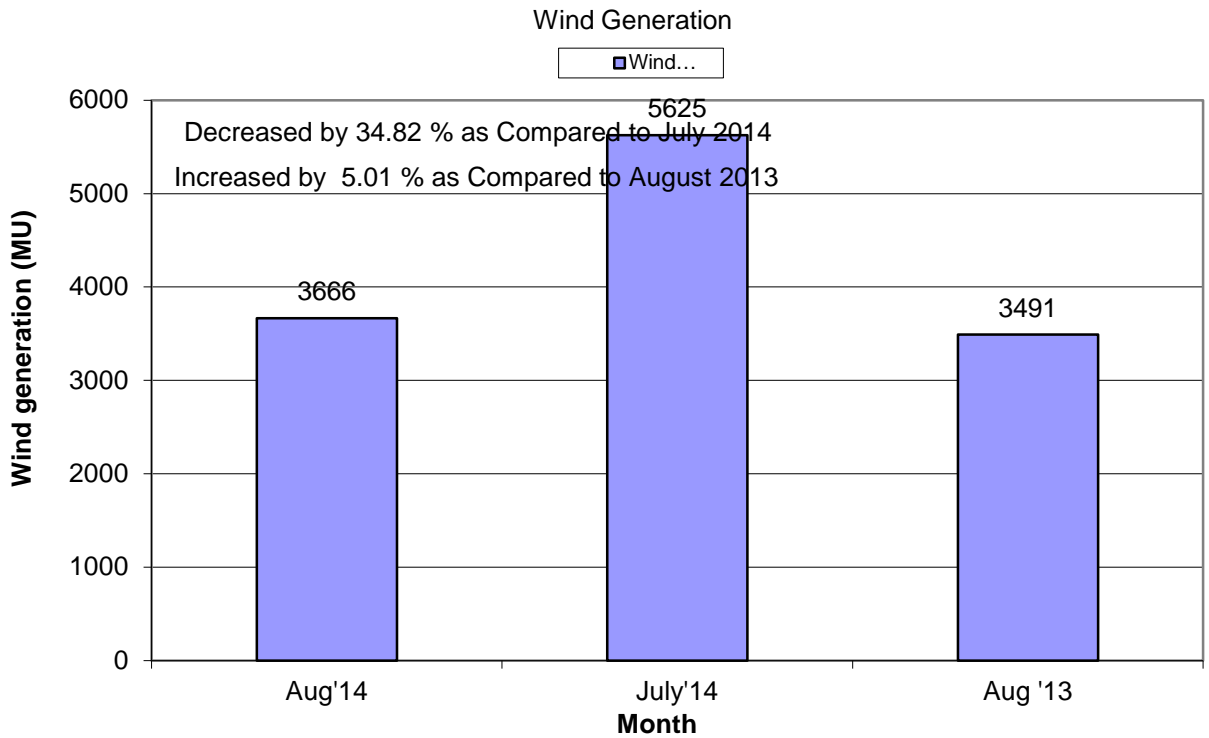
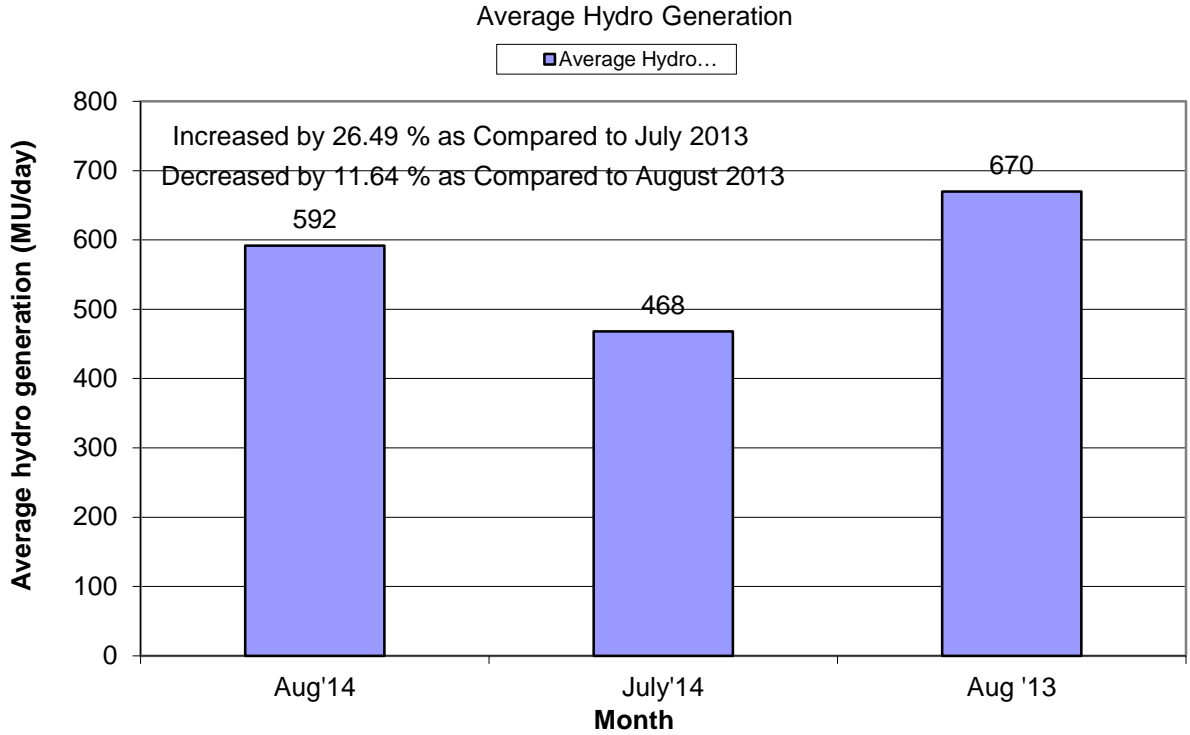


1. SUMMARY OF REPORT FOR THE MONTH OF AUGUST 2014

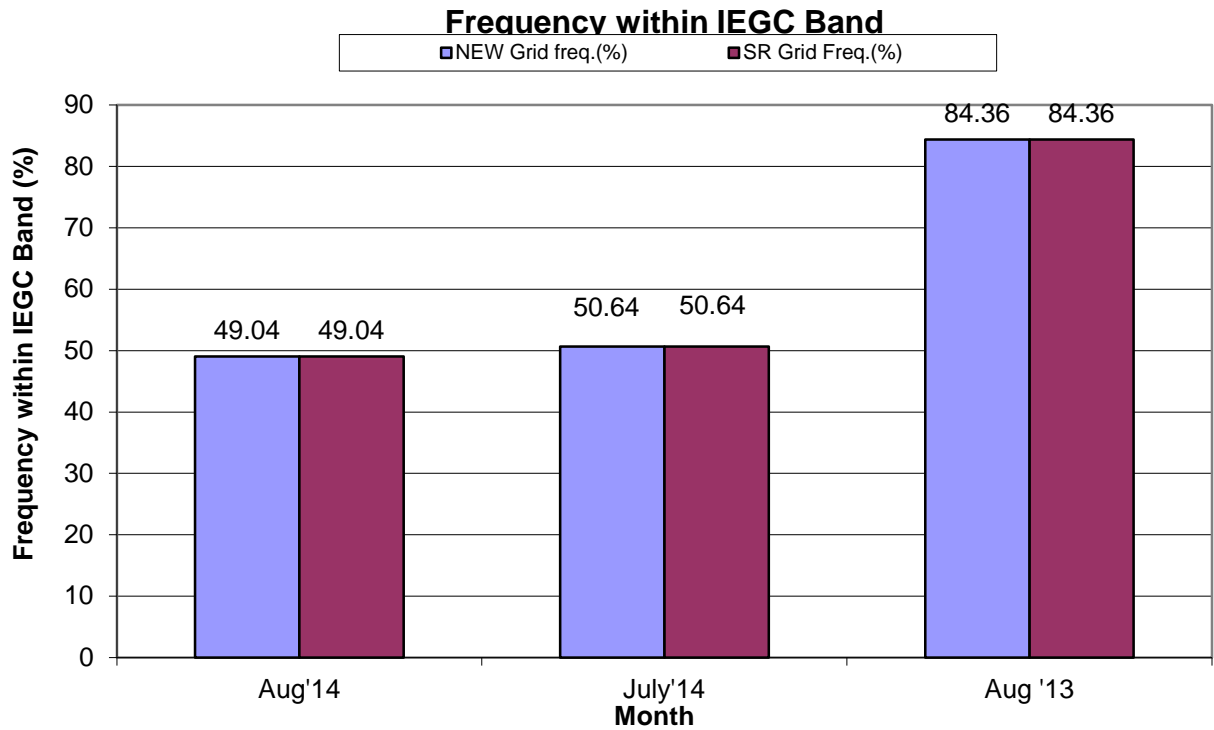
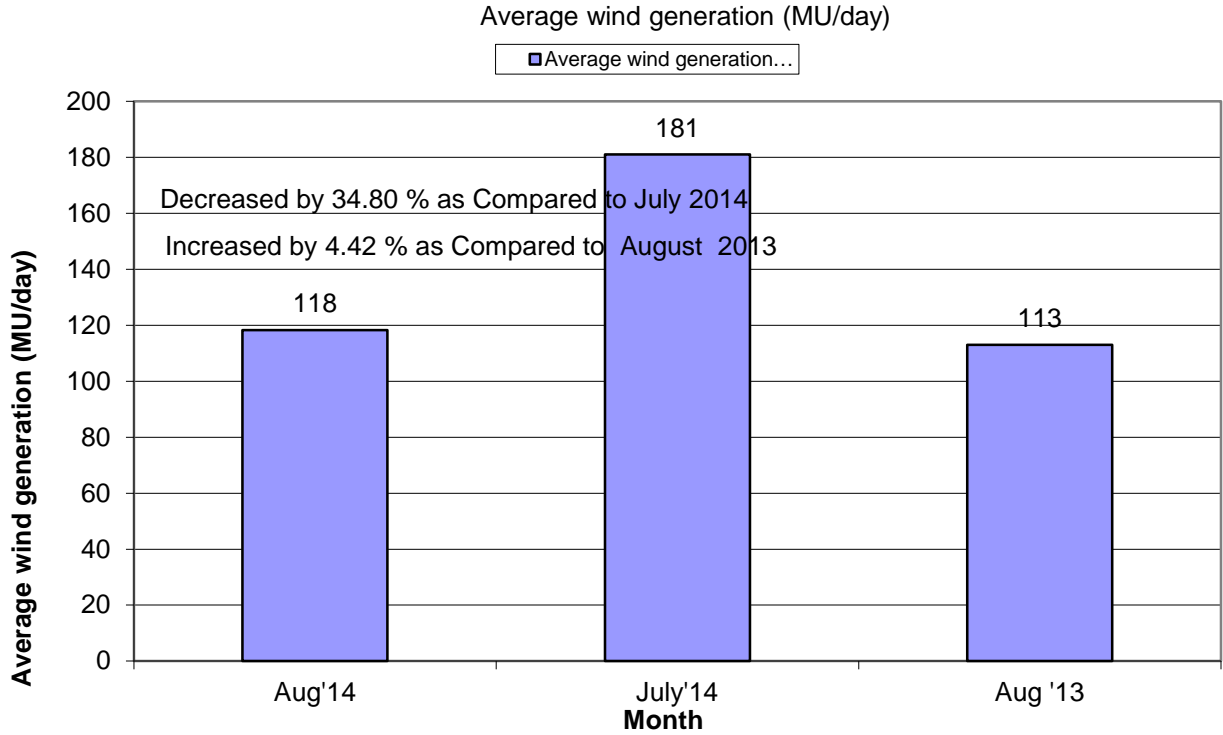




1. SUMMARY OF REPORT FOR THE MONTH OF AUGUST 2014



1. SUMMARY OF REPORT FOR THE MONTH OF AUGUST 2014



Note: IEGC Frequency band changed from 49.7 -50.2 to 49.9-50.05 wef 17<sup>th</sup> Feb 2014

## (2) ALL INDIA REGIONWISE INSTALLED CAPACITY

As on 31.08.2014

(All figures are in MW)

| S No | Region  | THERMAL |       |        |        | NUCLEAR | HYDRO | RES @ MNRE | GRAND TOTAL |
|------|---------|---------|-------|--------|--------|---------|-------|------------|-------------|
|      |         | COAL    | GAS   | DIESEL | TOTAL  |         |       |            |             |
| 1    | NR      | 39481   | 5331  | 13     | 44825  | 1620    | 16598 | 5936       | 68979       |
| 2    | WR      | 58860   | 10915 | 17     | 69792  | 1840    | 7448  | 11271      | 90351       |
| 3    | SR      | 27383   | 4963  | 939    | 33285  | 1320    | 11398 | 13785      | 59787       |
| 4    | ER      | 26528   | 190   | 17     | 26735  | 0       | 4113  | 433        | 31281       |
| 5    | NER     | 60      | 1209  | 143    | 1411   | 0       | 1242  | 257        | 2910        |
| 6    | ISLANDS | 0       | 0     | 70     | 70     | 0       | 0     | 11         | 81          |
|      |         | 152311  | 22608 | 1200   | 176119 | 4780    | 40799 | 31692      | 253389      |

Remarks: Data taken from CEA website

3. राष्ट्रीय स्तर पर संध्याकालीन शिखर विद्युत मांग पूर्ति  
DEMAND MET AT NATIONAL LEVEL

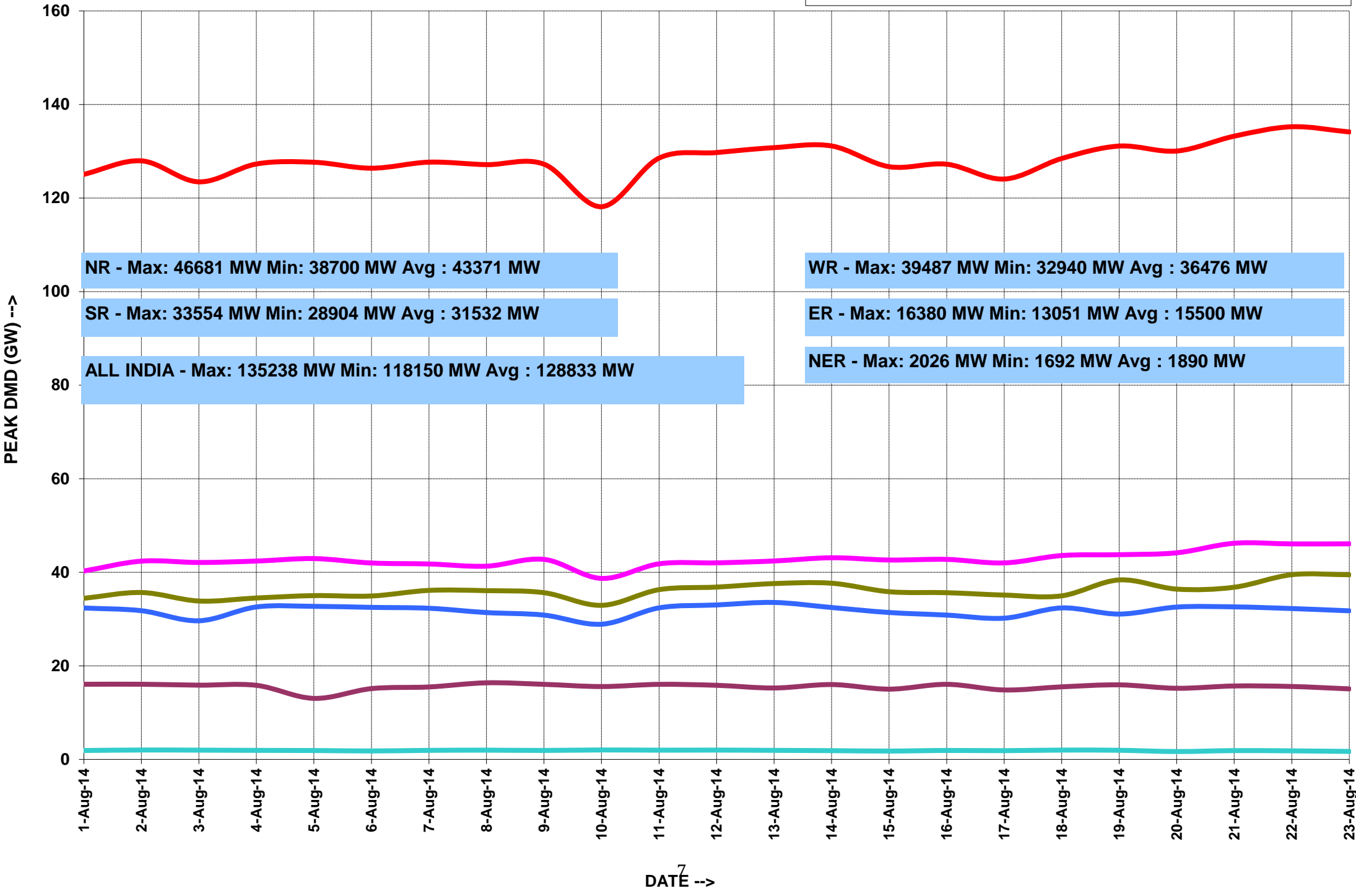
PEAK

माह:- अगस्त 2014 MONTH:- August 2014  
सभी आकड़े मेगावाट में All figures in MW

| दिनांक<br>Date                      | उत्तरी<br>क्षे. NR | पश्चिमी<br>क्षे. WR | दक्षिणी<br>क्षे. SR | पूर्वी<br>क्षे. ER | पूर्वोत्तर क्षे.<br>NER | कुल<br>TOTAL |
|-------------------------------------|--------------------|---------------------|---------------------|--------------------|-------------------------|--------------|
| 01-Aug-14                           | 40278              | 34444               | 32373               | 16068              | 1909                    | 125067       |
| 02-Aug-14                           | 42386              | 35682               | 31793               | 16077              | 2014                    | 127952       |
| 03-Aug-14                           | 42099              | 33862               | 29639               | 15877              | 1986                    | 123463       |
| 04-Aug-14                           | 42402              | 34510               | 32594               | 15841              | 1935                    | 127282       |
| 05-Aug-14                           | 42934              | 35019               | 32723               | 13051              | 1904                    | 127652       |
| 06-Aug-14                           | 41988              | 34937               | 32502               | 15140              | 1811                    | 126378       |
| 07-Aug-14                           | 41785              | 36136               | 32316               | 15494              | 1940                    | 127671       |
| 08-Aug-14                           | 41310              | 36077               | 31394               | 16380              | 1982                    | 127143       |
| 09-Aug-14                           | 42762              | 35643               | 30856               | 16055              | 1922                    | 127238       |
| 10-Aug-14                           | 38700              | 32940               | 28904               | 15580              | 2026                    | 118150       |
| 11-Aug-14                           | 41814              | 36290               | 32400               | 16053              | 1979                    | 128536       |
| 12-Aug-14                           | 42019              | 36840               | 33022               | 15846              | 1998                    | 129725       |
| 13-Aug-14                           | 42419              | 37591               | 33554               | 15272              | 1939                    | 130775       |
| 14-Aug-14                           | 43110              | 37665               | 32474               | 16008              | 1878                    | 131135       |
| 15-Aug-14                           | 42625              | 35852               | 31408               | 15028              | 1790                    | 126703       |
| 16-Aug-14                           | 42762              | 35643               | 30856               | 16055              | 1922                    | 127238       |
| 17-Aug-14                           | 42007              | 35134               | 30193               | 14849              | 1875                    | 124058       |
| 18-Aug-14                           | 43582              | 34969               | 32387               | 15518              | 1998                    | 128454       |
| 19-Aug-14                           | 43769              | 38372               | 31074               | 15944              | 1956                    | 131115       |
| 20-Aug-14                           | 44169              | 36407               | 32572               | 15210              | 1692                    | 130050       |
| 21-Aug-14                           | 46211              | 36810               | 32611               | 15705              | 1889                    | 133226       |
| 22-Aug-14                           | 46069              | 39487               | 32254               | 15594              | 1834                    | 135238       |
| 23-Aug-14                           | 46088              | 39478               | 31768               | 15083              | 1713                    | 134130       |
| 24-Aug-14                           | 45445              | 37881               | 29897               | 15536              | 1884                    | 130643       |
| 25-Aug-14                           | 46681              | 38275               | 32010               | 14937              | 1861                    | 133764       |
| 26-Aug-14                           | 46332              | 39023               | 31318               | 15494              | 1759                    | 133925       |
| 27-Aug-14                           | 44601              | 39044               | 31071               | 15444              | 1873                    | 132033       |
| 28-Aug-14                           | 45637              | 38070               | 31247               | 14733              | 1756                    | 131443       |
| 29-Aug-14                           | 45287              | 36314               | 29484               | 16119              | 1919                    | 129123       |
| 30-Aug-14                           | 45032              | 36628               | 31305               | 15787              | 1805                    | 130557       |
| 31-Aug-14                           | 42195              | 35734               | 29489               | 14716              | 1832                    | 123966       |
| उच्चतम<br>MAXIMUM                   | 46681              | 39487               | 33554               | 16380              | 2026                    | 135238       |
| निम्नतम<br>MINIMUM                  | 38700              | 32940               | 28904               | 13051              | 1692                    | 118150       |
| औसत AVERAGE                         | 43371              | 36476               | 31532               | 15500              | 1890                    | 128833       |
| अब तक का<br>उच्चतम All<br>Time Max. | 46681              | 41896               | 36126               | 16979              | 2026                    | 135746       |
| दिनांक Date                         | 26.08.14           | 26.04.14            | 24.03.14            | 22.04.14           | 10.08.14                | 30.06.14     |

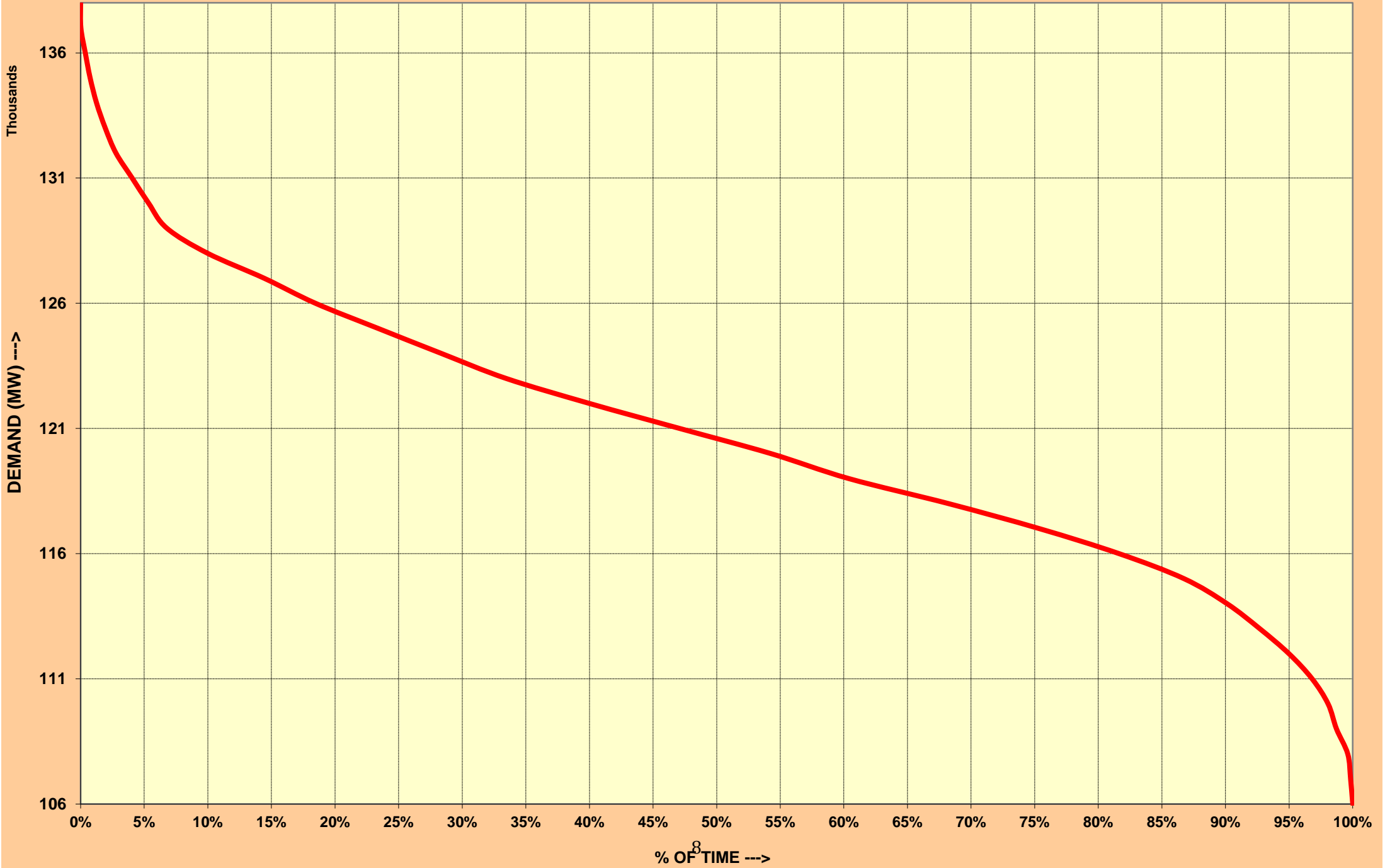
नोट : सभी आकड़े 1900 बजे की मांगपूर्ति पर आधारित हैं । Note: The above figures corresponds to value at 1900 Hrs

# PEAK DEMANDS MET DURING THE MONTH OF AUGUST' 2014



DATE -->

# ALL INDIA LOAD DURATION CURVE FOR AUGUST' 2014



**4. राष्ट्रीय स्तर पर विद्युत ऊर्जा आपूर्ति ENERGY MET AT NATIONAL LEVEL**

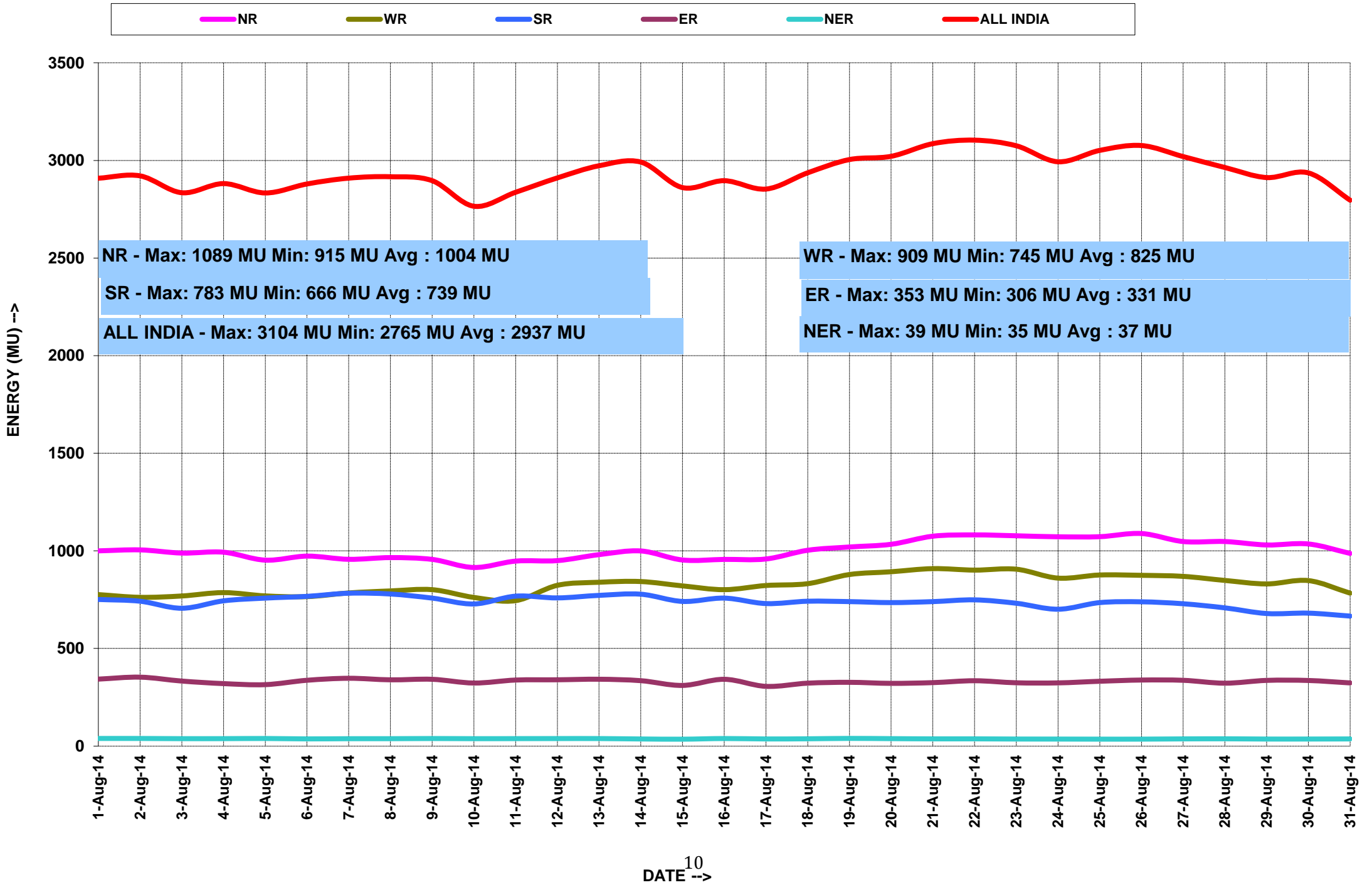
माह:- अगस्त 2014

MONTH:- August 2014

सभी आंकड़े मिलियन यूनिट में All figures in MU

| दिनांक<br>Date                               | उत्तरी<br>क्षे. NR | पश्चिमी<br>क्षे. WR | दक्षिणी<br>क्षे. SR | पूर्वी<br>क्षे. ER | पूर्वोत्तर क्षे.<br>NER | कुल<br>TOTAL    |
|--|--------------------|---------------------|---------------------|--------------------|-------------------------|-----------------|
| 01-Aug-14                                    | 1000               | 776                 | 751                 | 343                | 39                      | 2909            |
| 02-Aug-14                                    | 1005               | 762                 | 742                 | 353                | 39                      | 2921            |
| 03-Aug-14                                    | 989                | 769                 | 706                 | 333                | 38                      | 2835            |
| 04-Aug-14                                    | 993                | 786                 | 744                 | 320                | 38                      | 2881            |
| 05-Aug-14                                    | 953                | 769                 | 758                 | 315                | 39                      | 2833            |
| 06-Aug-14                                    | 973                | 766                 | 767                 | 337                | 37                      | 2880            |
| 07-Aug-14                                    | 957                | 785                 | 783                 | 347                | 38                      | 2909            |
| 08-Aug-14                                    | 966                | 795                 | 779                 | 339                | 38                      | 2917            |
| 09-Aug-14                                    | 956                | 801                 | 758                 | 342                | 39                      | 2896            |
| 10-Aug-14                                    | 915                | 762                 | 728                 | 323                | 38                      | 2765            |
| 11-Aug-14                                    | 948                | 745                 | 768                 | 338                | 38                      | 2837            |
| 12-Aug-14                                    | 950                | 823                 | 759                 | 340                | 39                      | 2911            |
| 13-Aug-14                                    | 981                | 839                 | 772                 | 342                | 39                      | 2973            |
| 14-Aug-14                                    | 1000               | 843                 | 778                 | 335                | 36                      | 2992            |
| 15-Aug-14                                    | 953                | 821                 | 741                 | 311                | 35                      | 2861            |
| 16-Aug-14                                    | 956                | 801                 | 758                 | 342                | 39                      | 2896            |
| 17-Aug-14                                    | 958                | 823                 | 730                 | 306                | 37                      | 2853            |
| 18-Aug-14                                    | 1003               | 832                 | 742                 | 322                | 37                      | 2937            |
| 19-Aug-14                                    | 1020               | 879                 | 740                 | 327                | 39                      | 3004            |
| 20-Aug-14                                    | 1034               | 893                 | 735                 | 321                | 38                      | 3021            |
| 21-Aug-14                                    | 1075               | 909                 | 740                 | 325                | 37                      | 3086            |
| 22-Aug-14                                    | 1082               | 901                 | 749                 | 335                | 37                      | 3104            |
| 23-Aug-14                                    | 1077               | 906                 | 732                 | 324                | 36                      | 3075            |
| 24-Aug-14                                    | 1072               | 860                 | 701                 | 324                | 36                      | 2993            |
| 25-Aug-14                                    | 1073               | 876                 | 735                 | 332                | 36                      | 3052            |
| 26-Aug-14                                    | 1089               | 875                 | 739                 | 338                | 36                      | 3076            |
| 27-Aug-14                                    | 1048               | 869                 | 729                 | 337                | 37                      | 3020            |
| 28-Aug-14                                    | 1048               | 849                 | 708                 | 322                | 37                      | 2964            |
| 29-Aug-14                                    | 1030               | 831                 | 679                 | 337                | 36                      | 2912            |
| 30-Aug-14                                    | 1035               | 848                 | 681                 | 336                | 36                      | 2936            |
| 31-Aug-14                                    | 987                | 783                 | 666                 | 324                | 37                      | 2796            |
| <b>कुल TOTAL</b>                             | <b>31124</b>       | <b>25576</b>        | <b>22898</b>        | <b>10270</b>       | <b>1159</b>             | <b>91046</b>    |
| <b>उच्चतम<br/>MAXIMUM</b>                    | <b>1089</b>        | <b>909</b>          | <b>783</b>          | <b>353</b>         | <b>39</b>               | <b>3104</b>     |
| <b>निम्नतम<br/>MINIMUM</b>                   | <b>915</b>         | <b>745</b>          | <b>666</b>          | <b>306</b>         | <b>35</b>               | <b>2765</b>     |
| <b>औसत<br/>AVERAGE</b>                       | <b>1004</b>        | <b>825</b>          | <b>739</b>          | <b>331</b>         | <b>37</b>               | <b>2937</b>     |
| <b>अब तक का<br/>उच्चतम All<br/>Time Max.</b> | <b>1096</b>        | <b>1001</b>         | <b>845</b>          | <b>367</b>         | <b>40</b>               | <b>3120</b>     |
| <b>दिनांक Date</b>                           | <b>11.07.14</b>    | <b>29.04.14</b>     | <b>26.03.14</b>     | <b>26.04.14</b>    | <b>02.07.2014</b>       | <b>25.06.14</b> |

# ENERGY MET DURING THE MONTH OF AUGUST' 2014



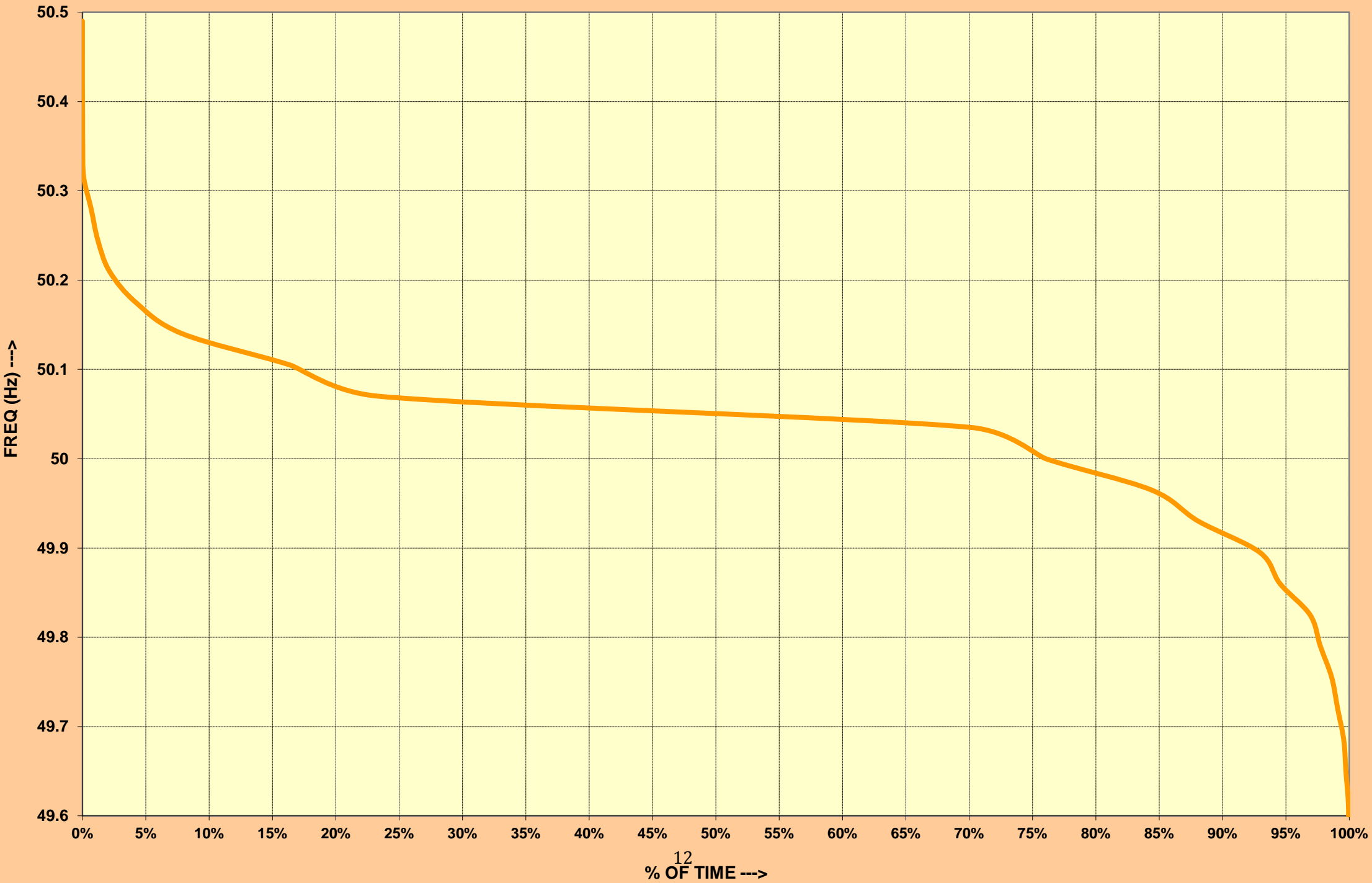


**5.वर्ष 2014-15 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR YEAR 2014-15**

| <b>राष्ट्रीय ग्रिड NATIONAL GRID</b>  |               |           |       |            |        |                   |                    |                |       |
|---------------------------------------|---------------|-----------|-------|------------|--------|-------------------|--------------------|----------------|-------|
| फ़िक्वेंसी रूपरेखा (Hz)               | <49.7         | 49.0-49.9 | <49.9 | 49.9-50.05 | >50.05 | उच्चतम फ़िक्वेंसी | निम्नतम फ़िक्वेंसी | औसत फ़िक्वेंसी |       |
| <b>ऑल इंडिया ग्रिड ALL INDIA GRID</b> |               |           |       |            |        |                   |                    |                |       |
| % समय                                 | <b>Aug-14</b> | 4.50      | 40.11 | 40.11      | 49.04  | 10.85             | 50.34              | 49.36          | 49.97 |
| % समय                                 | <b>Jul-14</b> | 0.00      | 34.45 | 34.45      | 50.36  | 14.91             | 50.36              | 49.40          | 49.94 |
| <b>ऑल इंडिया ग्रिड NEW GRID*</b>      |               |           |       |            |        |                   |                    |                |       |
| % समय                                 | <b>Jun-14</b> | 4.99      | 37.27 | 37.27      | 45.32  | 17.41             | 50.65              | 49.32          | 49.93 |
| % समय                                 | <b>May-14</b> | 0.93      | 22.39 | 22.39      | 53.09  | 24.52             | 50.56              | 49.41          | 49.98 |
| <b>द. क्षे. ग्रिड SR GRID*</b>        |               |           |       |            |        |                   |                    |                |       |
| % समय                                 | <b>Jun-14</b> | 6.25      | 40.68 | 40.68      | 43.93  | 15.40             | 50.65              | 49.32          | 49.92 |
| % समय                                 | <b>May-14</b> | 1.46      | 26.88 | 26.88      | 51.54  | 21.58             | 50.56              | 49.41          | 49.97 |

\* On Account of separation of SR GRID from NEW GRID for a brief time during the month of May & June 2014

# NEW GRID FREQUENCY DUR ATION CURVE FOR AUGUST' 2014



5.1 अगस्त 2014 के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR AUGUST 2014

राष्ट्रीय गिड NATIONAL GRID

| फ्रिक्वेंसी रूपरेखा (Hz) |           | <49.0 | 49.0-49.9 | >49.9 | 49.9-50.05 | >50.05 | उच्चतम फ्रिक्वेंसी | निम्नतम फ्रिक्वेंसी | औसत फ्रिक्वेंसी |
|--------------------------|-----------|-------|-----------|-------|------------|--------|--------------------|---------------------|-----------------|
| % समय                    | 01-Aug-14 | 0.00  | 33.06     | 33.06 | 55.82      | 11.12  | 50.16              | 49.36               | 49.88           |
|                          | 02-Aug-14 | 0.00  | 53.11     | 53.11 | 41.01      | 5.88   | 50.22              | 49.64               | 49.99           |
|                          | 03-Aug-14 | 0.00  | 52.16     | 52.16 | 37.37      | 10.46  | 50.22              | 49.64               | 49.99           |
|                          | 04-Aug-14 | 0.00  | 52.16     | 52.16 | 37.37      | 10.46  | 50.27              | 49.50               | 49.95           |
|                          | 05-Aug-14 | 0.00  | 27.01     | 27.01 | 55.21      | 17.78  | 50.31              | 49.61               | 49.96           |
|                          | 06-Aug-14 | 0.00  | 21.45     | 21.45 | 59.05      | 19.50  | 50.23              | 49.59               | 49.96           |
|                          | 07-Aug-14 | 0.00  | 24.42     | 24.42 | 57.79      | 17.79  | 50.29              | 49.66               | 49.96           |
|                          | 08-Aug-14 | 0.00  | 14.27     | 14.27 | 61.49      | 24.24  | 50.21              | 49.54               | 50.00           |
|                          | 09-Aug-14 | 0.00  | 34.94     | 34.94 | 52.78      | 12.28  | 50.25              | 49.59               | 49.99           |
|                          | 10-Aug-14 | 0.00  | 21.92     | 21.92 | 60.41      | 17.67  | 50.24              | 49.61               | 49.99           |
|                          | 11-Aug-14 | 0.00  | 18.97     | 18.97 | 62.07      | 18.96  | 50.19              | 49.57               | 49.95           |
|                          | 12-Aug-14 | 0.00  | 38.05     | 38.05 | 49.89      | 12.06  | 50.24              | 49.57               | 49.96           |
|                          | 13-Aug-14 | 0.00  | 41.10     | 41.10 | 51.33      | 7.51   | 50.23              | 49.57               | 49.96           |
|                          | 14-Aug-14 | 0.00  | 38.96     | 38.96 | 54.16      | 6.89   | 50.14              | 49.60               | 49.96           |
|                          | 15-Aug-14 | 0.00  | 35.05     | 35.05 | 56.82      | 8.14   | 50.34              | 49.60               | 50.00           |
|                          | 16-Aug-14 | 0.00  | 28.40     | 28.40 | 63.40      | 8.19   | 50.19              | 49.76               | 49.99           |
|                          | 17-Aug-14 | 0.00  | 21.92     | 21.92 | 60.41      | 17.67  | 50.23              | 49.53               | 49.99           |
|                          | 18-Aug-14 | 0.00  | 31.92     | 31.92 | 55.56      | 12.52  | 50.12              | 49.52               | 49.95           |
|                          | 19-Aug-14 | 0.00  | 63.91     | 63.91 | 34.07      | 2.01   | 50.09              | 49.46               | 49.96           |
|                          | 20-Aug-14 | 0.00  | 90.82     | 90.82 | 8.60       | 0.58   | 50.15              | 49.51               | 49.96           |
|                          | 21-Aug-14 | 0.00  | 67.40     | 67.40 | 30.72      | 1.88   | 50.19              | 49.56               | 49.96           |
|                          | 22-Aug-14 | 0.00  | 55.02     | 55.02 | 39.53      | 5.45   | 50.12              | 49.50               | 50.00           |
|                          | 23-Aug-14 | 0.00  | 45.35     | 45.35 | 48.84      | 5.81   | 50.23              | 49.52               | 49.99           |
|                          | 24-Aug-14 | 0.00  | 50.86     | 50.86 | 43.45      | 5.69   | 50.31              | 49.61               | 49.99           |
|                          | 25-Aug-14 | 0.00  | 39.80     | 39.80 | 47.56      | 12.64  | 50.23              | 49.60               | 49.95           |
|                          | 26-Aug-14 | 0.00  | 34.40     | 34.40 | 54.20      | 11.40  | 50.34              | 49.61               | 49.96           |
|                          | 27-Aug-14 | 0.00  | 52.36     | 52.36 | 41.24      | 6.40   | 50.15              | 49.50               | 49.96           |
|                          | 28-Aug-14 | 0.00  | 42.81     | 42.81 | 50.01      | 7.18   | 50.08              | 49.54               | 49.96           |
|                          | 29-Aug-14 | 0.00  | 61.11     | 61.11 | 35.74      | 3.15   | 50.18              | 49.62               | 50.00           |
|                          | 30-Aug-14 | 0.00  | 30.97     | 30.97 | 54.78      | 14.25  | 50.24              | 49.74               | 49.99           |
|                          | 31-Aug-14 | 0.00  | 19.79     | 19.79 | 59.53      | 20.68  | 50.33              | 49.79               | 50.06           |

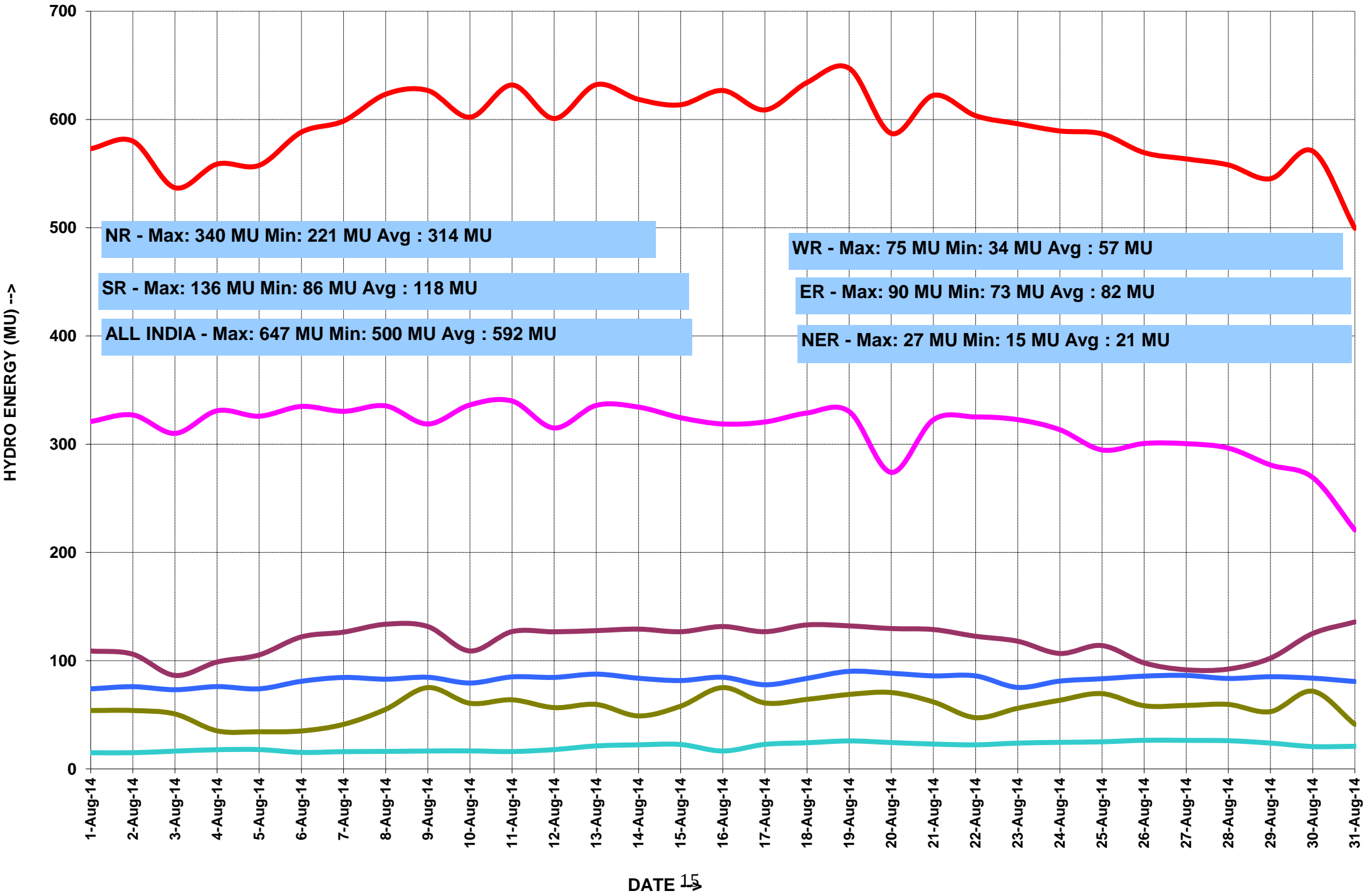
6.राष्ट्रीय स्तर पर जल विद्युत उत्पादन  
HYDRO GENERATION AT NATIONAL LEVEL

माह:- अगस्त 2014 MONTH:- August 2014

सभी आंकड़े मिलियन यूनिट में All figures in MU

| दिनांक<br>Date                      | ऊत्तरी<br>क्षे. NR | पश्चिमी<br>क्षे. WR | दक्षिणी क्षे.<br>SR | पूर्वी क्षे.<br>ER | पूर्वोत्तर क्षे.<br>NER | कुल<br>TOTAL |
|-------------------------------------|--------------------|---------------------|---------------------|--------------------|-------------------------|--------------|
| 01-Aug-14                           | 321                | 54                  | 109                 | 74                 | 15                      | 573          |
| 02-Aug-14                           | 327                | 54                  | 106                 | 76                 | 15                      | 580          |
| 03-Aug-14                           | 310                | 51                  | 86                  | 73                 | 17                      | 537          |
| 04-Aug-14                           | 331                | 35                  | 99                  | 76                 | 18                      | 559          |
| 05-Aug-14                           | 326                | 34                  | 105                 | 74                 | 18                      | 558          |
| 06-Aug-14                           | 335                | 35                  | 122                 | 81                 | 15                      | 588          |
| 07-Aug-14                           | 330                | 41                  | 126                 | 85                 | 16                      | 599          |
| 08-Aug-14                           | 335                | 55                  | 134                 | 83                 | 16                      | 623          |
| 09-Aug-14                           | 319                | 75                  | 132                 | 85                 | 17                      | 627          |
| 10-Aug-14                           | 336                | 61                  | 109                 | 79                 | 17                      | 602          |
| 11-Aug-14                           | 340                | 64                  | 127                 | 85                 | 16                      | 632          |
| 12-Aug-14                           | 315                | 57                  | 127                 | 85                 | 18                      | 601          |
| 13-Aug-14                           | 336                | 60                  | 128                 | 88                 | 21                      | 632          |
| 14-Aug-14                           | 334                | 49                  | 129                 | 84                 | 22                      | 619          |
| 15-Aug-14                           | 325                | 58                  | 127                 | 82                 | 23                      | 614          |
| 16-Aug-14                           | 319                | 75                  | 132                 | 85                 | 17                      | 627          |
| 17-Aug-14                           | 321                | 61                  | 127                 | 78                 | 23                      | 609          |
| 18-Aug-14                           | 329                | 64                  | 133                 | 84                 | 24                      | 634          |
| 19-Aug-14                           | 330                | 69                  | 132                 | 90                 | 26                      | 647          |
| 20-Aug-14                           | 274                | 71                  | 130                 | 88                 | 24                      | 587          |
| 21-Aug-14                           | 323                | 62                  | 129                 | 86                 | 23                      | 622          |
| 22-Aug-14                           | 325                | 47                  | 123                 | 86                 | 22                      | 604          |
| 23-Aug-14                           | 323                | 56                  | 118                 | 75                 | 24                      | 596          |
| 24-Aug-14                           | 313                | 63                  | 107                 | 81                 | 25                      | 589          |
| 25-Aug-14                           | 295                | 70                  | 114                 | 83                 | 25                      | 587          |
| 26-Aug-14                           | 301                | 58                  | 98                  | 86                 | 27                      | 569          |
| 27-Aug-14                           | 301                | 59                  | 92                  | 86                 | 26                      | 564          |
| 28-Aug-14                           | 296                | 60                  | 92                  | 84                 | 26                      | 558          |
| 29-Aug-14                           | 281                | 53                  | 102                 | 85                 | 24                      | 545          |
| 30-Aug-14                           | 269                | 72                  | 125                 | 84                 | 21                      | 571          |
| 31-Aug-14                           | 221                | 41                  | 136                 | 81                 | 21                      | 500          |
| कुल TOTAL                           | 9739               | 1764                | 3654                | 2551               | 640                     | 18351        |
| उच्चतम<br>MAXIMUM                   | 340                | 75                  | 136                 | 90                 | 27                      | 647          |
| निम्नतम<br>MINIMUM                  | 221                | 34                  | 86                  | 73                 | 15                      | 500          |
| औसत<br>AVERAGE                      | 314                | 57                  | 118                 | 82                 | 21                      | 592          |
| अब तक का<br>उच्चतम All<br>Time Max. | 332                | 142                 | 202                 | 91                 | 27                      | 712          |
| दिनांक Date                         | 31.07.14           | 29.09.11            | 08.08.13            | 07.09.13           | 14.09.10                | 27.08.13     |

# HYDRO ENERGY DURING THE MONTH OF AUGUST' 2014



7. राष्ट्रीय स्तर पर पवन ऊर्जा उत्पादन  
WIND GENERATION AT NATIONAL LEVEL

माह:- अगस्त 2014

MONTH:- August 2014

सभी आंकड़े मिलियन यूनिट में All figures in MU

| दिनांक<br>Date                      | उत्तरी<br>क्षे. NR | पश्चिमी<br>क्षे. WR | दक्षिणी क्षे.<br>SR | पूर्वी क्षे.<br>ER | पूर्वोत्तर क्षे.<br>NER | कुल<br>TOTAL |
|-------------------------------------|--------------------|---------------------|---------------------|--------------------|-------------------------|--------------|
| 01-Aug-14                           | 5                  | 42                  | 108                 | -----              | -----                   | 155          |
| 02-Aug-14                           | 3                  | 58                  | 115                 | -----              | -----                   | 176          |
| 03-Aug-14                           | 9                  | 84                  | 101                 | -----              | -----                   | 194          |
| 04-Aug-14                           | 19                 | 78                  | 118                 | -----              | -----                   | 214          |
| 05-Aug-14                           | 11                 | 62                  | 126                 | -----              | -----                   | 199          |
| 06-Aug-14                           | 11                 | 51                  | 108                 | -----              | -----                   | 170          |
| 07-Aug-14                           | 23                 | 53                  | 96                  | -----              | -----                   | 171          |
| 08-Aug-14                           | 15                 | 44                  | 90                  | -----              | -----                   | 149          |
| 09-Aug-14                           | 7                  | 26                  | 75                  | -----              | -----                   | 108          |
| 10-Aug-14                           | 8                  | 28                  | 62                  | -----              | -----                   | 98           |
| 11-Aug-14                           | 14                 | 35                  | 60                  | -----              | -----                   | 108          |
| 12-Aug-14                           | 20                 | 48                  | 65                  | -----              | -----                   | 133          |
| 13-Aug-14                           | 30                 | 63                  | 68                  | -----              | -----                   | 161          |
| 14-Aug-14                           | 33                 | 78                  | 74                  | -----              | -----                   | 185          |
| 15-Aug-14                           | 33                 | 78                  | 65                  | -----              | -----                   | 176          |
| 16-Aug-14                           | 26                 | 67                  | 61                  | -----              | -----                   | 155          |
| 17-Aug-14                           | 7                  | 28                  | 42                  | -----              | -----                   | 77           |
| 18-Aug-14                           | 6                  | 11                  | 15                  | -----              | -----                   | 32           |
| 19-Aug-14                           | 8                  | 7                   | 11                  | -----              | -----                   | 26           |
| 20-Aug-14                           | 21                 | 11                  | 21                  | -----              | -----                   | 53           |
| 21-Aug-14                           | 23                 | 14                  | 22                  | -----              | -----                   | 59           |
| 22-Aug-14                           | 16                 | 8                   | 22                  | -----              | -----                   | 46           |
| 23-Aug-14                           | 6                  | 7                   | 33                  | -----              | -----                   | 46           |
| 24-Aug-14                           | 8                  | 8                   | 32                  | -----              | -----                   | 48           |
| 25-Aug-14                           | 11                 | 18                  | 50                  | -----              | -----                   | 79           |
| 26-Aug-14                           | 16                 | 36                  | 71                  | -----              | -----                   | 123          |
| 27-Aug-14                           | 11                 | 30                  | 76                  | -----              | -----                   | 118          |
| 28-Aug-14                           | 5                  | 14                  | 85                  | -----              | -----                   | 104          |
| 29-Aug-14                           | 1                  | 14                  | 69                  | -----              | -----                   | 84           |
| 30-Aug-14                           | 4                  | 15                  | 85                  | -----              | -----                   | 104          |
| 31-Aug-14                           | 5                  | 41                  | 70                  | -----              | -----                   | 116          |
| कुल TOTAL                           | 412                | 1155                | 2098                | ...                | ...                     | 3666         |
| उच्चतम<br>MAXIMUM                   | 33                 | 84                  | 126                 | ...                | ...                     | 214          |
| निम्नतम<br>MINIMUM                  | 1                  | 7                   | 11                  | ...                | ...                     | 26           |
| औसत AVERAGE                         | 13                 | 37                  | 68                  | ...                | ...                     | 118          |
| अब तक का<br>उच्चतम All<br>Time Max. | 34.9               | 102.8               | 125.1               | ...                | ...                     | 223.8        |
| दिनांक Date                         | 12.06.12           | 22.06.14            | 06.08.14            | ...                | ...                     | 03.08.12     |

**8. ACTUAL POWER SUPPLY POSITION - August 2014**

| REGION      | STATE             | Requirement/Availability in MU/DAY |            |                        | Requirement/Availability in MU |            |                        |            | Peak Demand/Peak Met in MW |                 |                        |            |
|-------------|-------------------|------------------------------------|------------|------------------------|--------------------------------|------------|------------------------|------------|----------------------------|-----------------|------------------------|------------|
|             |                   | Requirement                        | Energy met | Surplus(+)/ Deficit(-) | Requirement                    | Energy met | Surplus(+)/ Deficit(-) | % Shortage | Requirement                | Peak Demand Met | Surplus(+)/ Deficit(-) | % Shortage |
| NR          | Chandigarh        | 5.9                                | 5.9        | 0.0                    | 182.3                          | 182.3      | 0.0                    | 0.0        | 343.0                      | 343.0           | 0.0                    | 0.0        |
|             | Delhi             | 107.1                              | 107.1      | 0.0                    | 3321.6                         | 3320.4     | -1.2                   | 0.0        | 5589.0                     | 5507.0          | -82.0                  | -1.5       |
|             | Haryana           | 172.3                              | 172.0      | -0.3                   | 5340.5                         | 5332.7     | -7.8                   | -0.1       | 9152.0                     | 9152.0          | 0.0                    | 0.0        |
|             | H.P.              | 24.7                               | 24.3       | -0.3                   | 765.1                          | 754.4      | -10.7                  | -1.4       | 1313.0                     | 1313.0          | 0.0                    | 0.0        |
|             | J&K               | 40.3                               | 32.7       | -7.6                   | 1249.3                         | 1014.6     | -234.7                 | -18.8      | 2282.0                     | 1826.0          | -456.0                 | -20.0      |
|             | Punjab            | 214.3                              | 208.0      | -6.3                   | 6641.8                         | 6446.6     | -195.2                 | -2.9       | 9727.0                     | 9727.0          | 0.0                    | 0.0        |
|             | Rajasthan         | 182.1                              | 178.5      | -3.5                   | 5644.2                         | 5534.9     | -109.4                 | -1.9       | 10087.0                    | 10077.0         | -10.0                  | -0.1       |
|             | U.P.              | 305.5                              | 257.0      | -48.5                  | 9469.7                         | 7966.0     | -1503.7                | -15.9      | 14505.0                    | 12295.0         | -2210.0                | -15.2      |
|             | Uttarakhand       | 35.0                               | 33.8       | -1.2                   | 1084.2                         | 1048.1     | -36.1                  | -3.3       | 1088.1                     | 1761.0          | 672.9                  | 61.8       |
| NFF/Railway | 2.2               | 2.2                                | 0.0        | 67.9                   | 67.9                           | 0.0        | 0.0                    | 100.0      | 100.0                      | 0.0             | 0.0                    |            |
| TOTAL       | 1089.2            | 1021.5                             | -67.7      | 33766.7                | 31668.0                        | -2098.6    | -6.2                   | 54186.1    | 52101.0                    | -2085.1         | -3.8                   |            |
| WR          | Gujarat           | 238.2                              | 237.7      | -0.5                   | 7384.5                         | 7367.4     | -17.0                  | -0.2       | 12788.0                    | 12726.0         | -62.0                  | -0.5       |
|             | Madhya Pradesh    | 143.0                              | 136.8      | -6.2                   | 4434.5                         | 4241.3     | -193.2                 | -4.4       | 8227.0                     | 7669.0          | -558.0                 | -6.8       |
|             | Chhattisgarh      | 69.3                               | 67.9       | -1.5                   | 2149.0                         | 2104.0     | -45.0                  | -2.1       | 3519.0                     | 3354.0          | -165.0                 | -4.7       |
|             | Maharashtra       | 352.4                              | 348.6      | -3.8                   | 10925.6                        | 10807.6    | -117.9                 | -1.1       | 18386.0                    | 17700.0         | -686.0                 | -3.7       |
|             | Goa               | 7.6                                | 7.5        | -0.2                   | 237.1                          | 232.2      | -4.9                   | -2.0       | 459.0                      | 459.0           | 0.0                    | 0.0        |
|             | D&D               | 5.8                                | 5.8        | 0.0                    | 180.6                          | 180.6      | 0.0                    | 0.0        | 280.0                      | 280.0           | 0.0                    | 0.0        |
|             | DNH               | 14.9                               | 14.8       | -0.1                   | 461.9                          | 458.8      | -3.1                   | -0.7       | 683.0                      | 683.0           | 0.0                    | 0.0        |
|             | ESIL              | 8.0                                | 7.9        | -0.1                   | 247.1                          | 245.5      | -1.6                   | -0.7       | 541.0                      | 541.0           | 0.0                    | 0.0        |
|             | TOTAL             | 859.5                              | 854.4      | -5.0                   | 26643.0                        | 26487.0    | -156.0                 | -0.6       | 44883.0                    | 43412.0         | -1471.0                | -3.3       |
| SR          | AP-TRANSCO        | 140.4                              | 137.7      | -2.7                   | 4352.6                         | 4270.0     | -82.7                  | -1.9       | 6525.0                     | 6525.0          | 0.0                    | 0.0        |
|             | TG - TRANSCO      | 150.0                              | 133.8      | -16.2                  | 4651.1                         | 4147.6     | -503.5                 | -10.8      | 7010.3                     | 6630.0          | -380.3                 | -5.4       |
|             | KPTCL             | 152.1                              | 147.2      | -4.8                   | 4713.8                         | 4563.8     | -150.0                 | -3.2       | 8345.0                     | 8015.9          | -329.1                 | -3.9       |
|             | KSEB              | 56.2                               | 55.3       | -1.0                   | 1743.6                         | 1713.5     | -30.1                  | -1.7       | 3290.9                     | 3193.8          | -97.2                  | -3.0       |
|             | TNEB              | 260.6                              | 258.5      | -2.0                   | 8078.1                         | 8014.6     | -63.5                  | -0.8       | 13024.4                    | 12884.4         | -140.0                 | -1.1       |
|             | PONDICHERRY       | 6.4                                | 6.2        | -0.1                   | 197.1                          | 192.8      | -4.3                   | -2.2       | 319.8                      | 318.0           | -1.8                   | -0.6       |
|             | TOTAL             | 765.7                              | 738.8      | -26.9                  | 23736.3                        | 22902.3    | -834.0                 | -3.5       | 38515.5                    | 37567.1         | -948.4                 | -2.5       |
| ER          | Bihar             | 43.2                               | 45.0       | 1.9                    | 1338.0                         | 1395.7     | 57.7                   | 4.3        | 2650.0                     | 2408.0          | -242.0                 | -9.1       |
|             | JSEB              | 22.6                               | 20.0       | -2.6                   | 700.0                          | 619.6      | -80.4                  | -11.5      | 1080.0                     | 1047.0          | -33.0                  | -3.1       |
|             | DVC               | 53.4                               | 53.6       | 0.2                    | 1655.0                         | 1661.2     | 6.2                    | 0.4        | 2670.0                     | 2717.0          | 47.0                   | 1.8        |
|             | Odisha            | 75.1                               | 71.9       | -3.2                   | 2329.0                         | 2230.0     | -99.0                  | -4.3       | 3700.0                     | 3637.0          | -63.0                  | -1.7       |
|             | West Bengal       | 134.0                              | 145.0      | 11.0                   | 4154.0                         | 4494.0     | 340.0                  | 8.2        | 7415.0                     | 7621.0          | 206.0                  | 2.8        |
| TOTAL       | 328.3             | 335.5                              | 7.2        | 10176.0                | 10400.5                        | 224.5      | 2.2                    | 17515.0    | 17430.0                    | -85.0           | -0.5                   |            |
| NER         | Arunachal Pradesh | 2.0                                | 2.0        | 0.0                    | 60.6                           | 60.5       | -0.1                   | -0.2       | 118.0                      | 116.0           | -2.0                   | -1.7       |
|             | Assam             | 22.8                               | 21.5       | -1.3                   | 706.3                          | 666.3      | -40.0                  | -5.7       | 1375.0                     | 1242.1          | -132.9                 | -9.7       |
|             | Manipur           | 2.2                                | 2.2        | 0.0                    | 68.2                           | 68.0       | -0.2                   | -0.3       | 140.0                      | 138.4           | -1.6                   | -1.2       |
|             | MeSEB             | 4.5                                | 4.3        | -0.3                   | 140.9                          | 132.6      | -8.3                   | -5.9       | 288.0                      | 280.0           | -8.0                   | -2.8       |
|             | Mizoram           | 1.3                                | 1.3        | 0.0                    | 39.3                           | 39.1       | -0.2                   | -0.5       | 85.0                       | 81.0            | -4.0                   | -4.7       |
|             | Nagaland          | 2.1                                | 2.0        | 0.0                    | 63.6                           | 63.2       | -0.4                   | -0.6       | 120.0                      | 116.0           | -4.0                   | -3.3       |
|             | Tripura           | 3.6                                | 3.5        | -0.2                   | 112.3                          | 107.3      | -5.0                   | -4.5       | 240.0                      | 235.0           | -5.0                   | -2.1       |
| TOTAL       | 38.4              | 36.7                               | -1.7       | 1191.2                 | 1137.0                         | -54.2      | -4.5                   | 2318.3     | 2162.6                     | -155.7          | -6.7                   |            |
| ALL INDIA   |                   | 3081.1                             | 2945.3     | -135.8                 | 95513.2                        | 91302.9    | -4210.3                | -4.4       | 157417.9                   | 135746.2        | -21671.7               | -13.8      |

**9. ENERGY COMPARISON OF AUGUST 2014 Vs AUGUST 2013**

| REGION    | STATE             | Energy Requirement (MU) |        |            |          |                           | Energy Met (MU) |        |            |          |                            |
|-----------|-------------------|-------------------------|--------|------------|----------|---------------------------|-----------------|--------|------------|----------|----------------------------|
|           |                   | Aug-13                  | Aug-14 | Difference | % Change | Average MU/day for Jul-14 | Aug-13          | Aug-14 | Difference | % Change | Average for MU/day Aug -14 |
| NR        | Chandigarh        | 164                     | 182    | 18         | 11       | 6                         | 164             | 182    | 18         | 11       | 6                          |
|           | Delhi             | 2818                    | 3322   | 503        | 18       | 111                       | 2817            | 3320   | 503        | 18       | 111                        |
|           | Haryana           | 4428                    | 5340   | 913        | 21       | 178                       | 4423            | 5333   | 910        | 21       | 178                        |
|           | H.P.              | 720                     | 765    | 45         | 6        | 26                        | 718             | 754    | 36         | 5        | 25                         |
|           | J&K               | 1085                    | 1249   | 164        | 15       | 42                        | 852             | 1015   | 162        | 19       | 34                         |
|           | Punjab            | 5460                    | 6642   | 1182       | 22       | 221                       | 5358            | 6447   | 1089       | 20       | 215                        |
|           | Rajasthan         | 4351                    | 5644   | 1293       | 30       | 188                       | 4344            | 5535   | 1191       | 27       | 184                        |
|           | U.P.              | 8246                    | 9470   | 1223       | 15       | 316                       | 7295            | 7966   | 671        | 9        | 266                        |
|           | Uttarakhand       | 1011                    | 1084   | 74         | 7        | 36                        | 980             | 1048   | 68         | 7        | 35                         |
|           | NFF/Railway       | 68                      | 68     | 0          | -1       | 2                         | 68              | 68     | 0          | -1       | 2                          |
| TOTAL     | 28351             | 33767                   | 5416   | 19         | 1126     | 27019                     | 31668           | 4649   | 17         | 1056     |                            |
| WR        | Gujarat           | 6347                    | 7384   | 1038       | 16       | 246                       | 6343            | 7367   | 1024       | 16       | 246                        |
|           | Madhya Pradesh    | 3399                    | 4434   | 1036       | 30       | 148                       | 3413            | 4241   | 829        | 24       | 141                        |
|           | Chhattisgarh      | 1840                    | 2149   | 309        | 17       | 72                        | 1829            | 2104   | 275        | 15       | 70                         |
|           | Maharashtra       | 9755                    | 10926  | 1171       | 12       | 364                       | 9628            | 10808  | 1180       | 12       | 360                        |
|           | Goa               | 238                     | 237    | -1         | 0        | 8                         | 237             | 232    | -5         | -2       | 8                          |
|           | D&D               | 185                     | 181    | -5         | -3       | 6                         | 185             | 181    | -4         | -2       | 6                          |
|           | DNH               | 441                     | 462    | 21         | 5        | 15                        | 439             | 459    | 20         | 5        | 15                         |
|           | ESIL              | 229                     | 247    | 18         | 8        | 8                         | 228             | 245    | 17         | 8        | 8                          |
| TOTAL     | 22434             | 26020                   | 3586   | 16         | 867      | 22302                     | 25638           | 3336   | 15         | 855      |                            |
| SR        | AP-TRANSCO        | 8236                    | 4353   | 768        | 9        | 140                       | 7652            | 4270   | 766        | 7        | 142                        |
|           | TG - TRANSCO      |                         | 4651   |            |          | 150                       |                 | 4148   |            |          | 138                        |
|           | KPTCL             | 5367                    | 4714   | -653       | -12      | 157                       | 4617            | 4564   | -53        | -1       | 152                        |
|           | KSEB              | 1694                    | 1744   | 50         | 3        | 58                        | 1679            | 1714   | 35         | 2        | 57                         |
|           | TNEB              | 7851                    | 8078   | 227        | 3        | 269                       | 7430            | 8015   | 585        | 8        | 267                        |
|           | PONDY             | 195                     | 197    | 2          | 1        | 7                         | 187             | 193    | 6          | 3        | 6                          |
| TOTAL     | 23343             | 23736                   | 393    | 2          | 791      | 21564                     | 22851           | 1287   | 6          | 762      |                            |
| ER        | Bihar             | 1215                    | 1338   | 123        | 10       | 45                        | 1280            | 1396   | 116        | 9        | 47                         |
|           | JSEB              | 610                     | 700    | 90         | 15       | 23                        | 591             | 620    | 29         | 5        | 21                         |
|           | DVC               | 1550                    | 1655   | 105        | 7        | 55                        | 1745            | 1661   | -84        | -5       | 55                         |
|           | Odisha            | 2135                    | 2329   | 194        | 9        | 78                        | 2157            | 2230   | 73         | 3        | 74                         |
|           | West Bengal       | 4171                    | 4154   | -17        | 0        | 138                       | 4154            | 4494   | 340        | 8        | 150                        |
| TOTAL     | 9681              | 10176                   | 495    | 5          | 339      | 9927                      | 10401           | 474    | 5          | 347      |                            |
| NER       | Arunachal Pradesh | 49                      | 61     | 11         | 23       | 2                         | 38              | 60     | 22         | 57       | 2                          |
|           | Assam             | 648                     | 706    | 59         | 9        | 24                        | 691             | 666    | -24        | -4       | 22                         |
|           | Manipur           | 54                      | 68     | 14         | 26       | 2                         | 44              | 68     | 24         | 56       | 2                          |
|           | MeSEB             | 137                     | 141    | 4          | 3        | 5                         | 135             | 133    | -2         | -2       | 4                          |
|           | Mizoram           | 36                      | 39     | 3          | 9        | 1                         | 31              | 39     | 8          | 26       | 1                          |
|           | Nagaland          | 45                      | 64     | 19         | 43       | 2                         | 45              | 63     | 18         | 40       | 2                          |
|           | Tripura           | 103                     | 112    | 10         | 9        | 4                         | 101             | 107    | 7          | 7        | 4                          |
| TOTAL     | 1072              | 1191                    | 120    | 11         | 40       | 1085                      | 1137            | 52     | 5          | 38       |                            |
| ALL INDIA | 84881             | 94890                   | 10009  | 12         | 3163     | 81897                     | 91694           | 9797   | 12         | 3056     |                            |



10. DEMAND COMPARISON OF AUGUST 2014 Vs AUGUST 2013

| REGION | STATE             | Peak Requirement (MW) |        |            |          | Peak Met (MW) |        |            |          |
|--------|-------------------|-----------------------|--------|------------|----------|---------------|--------|------------|----------|
|        |                   | Aug-13                | Aug-14 | Difference | % Change | Aug-13        | Aug-14 | Difference | % Change |
| NR     | Chandigarh        | 306                   | 343    | 37         | 12.1     | 306           | 343    | 37         | 12.1     |
|        | Delhi             | 4993                  | 5589   | 596        | 11.9     | 4988          | 5507   | 519        | 10.4     |
|        | Haryana           | 7613                  | 9152   | 1539       | 20.2     | 7613          | 9152   | 1539       | 20.2     |
|        | H.P.              | 1193                  | 1313   | 120        | 10.1     | 1193          | 1313   | 120        | 10.1     |
|        | J&K               | 2373                  | 2282   | -91        | -3.8     | 1779          | 1826   | 47         | 2.6      |
|        | Punjab            | 9393                  | 9727   | 334        | 3.6      | 8153          | 9727   | 1574       | 19.3     |
|        | Rajasthan         | 7206                  | 10087  | 2881       | 40.0     | 7147          | 10077  | 2930       | 41.0     |
|        | U.P.              | 13076                 | 14505  | 1429       | 10.9     | 11916         | 12295  | 379        | 3.2      |
|        | Uttarakhand       | 1698                  | 1801   | 103        | 6.1      | 1698          | 1761   | 63         | 3.7      |
|        | NFF/Railway       | 115                   | 100    | -15        | -13.0    | 115           | 100    | -15        | -13.0    |
| TOTAL  | 47966             | 54899                 | 6933   | 14.5       | 44908    | 52101         | 7193   | 16.0       |          |
| WR     | Gujarat           | 11296                 | 12788  | 1492       | 13       | 11201         | 12726  | 1525       | 13.6     |
|        | Madhya Pradesh    | 5816                  | 8227   | 2411       | 41       | 5787          | 7669   | 1882       | 32.5     |
|        | Chhattisgarh      | 3268                  | 3519   | 251        | 8        | 3091          | 3354   | 263        | 8.5      |
|        | Maharashtra       | 16177                 | 18386  | 2209       | 14       | 15619         | 17700  | 2081       | 13.3     |
|        | Goa               | 415                   | 459    | 44         | 11       | 412           | 459    | 47         | 11.3     |
|        | D&D               | 267                   | 280    | 13         | 4.8      | 264           | 280    | 16         | 6.1      |
|        | DNH               | 639                   | 683    | 44         | 6.9      | 637           | 683    | 46         | 7.2      |
|        | ESIL              | 407                   | 541    | 134        | 32.9     | 406           | 541    | 135        | 33.3     |
| TOTAL  | 38285             | 44883                 | 6598   | 17.2       | 37417    | 43412         | 5995   | 16.0       |          |
| SR     | AP-TRANSCO        | 11717                 | 6525   | 1818       | 15.5     | 11717         | 6525   | 1438       | 12.3     |
|        | TG - TRANSCO      |                       | 7010   |            |          |               | 6630   |            |          |
|        | KPTCL             | 8762                  | 9932   | 1170       | 13.4     | 8256          | 9503   | 1247       | 15.1     |
|        | KSEB              | 3340                  | 3665   | 325        | 9.7      | 3130          | 3512   | 382        | 12.2     |
|        | TNEB              | 12260                 | 13804  | 1544       | 12.6     | 12092         | 13771  | 1679       | 13.9     |
|        | PONDY             | 319                   | 348    | 29         | 9.2      | 319           | 348    | 29         | 9.1      |
|        | TOTAL             | 36398                 | 41284  | 4886       | 13.4     | 35514         | 40288  | 4774       | 13.4     |
| ER     | Bihar             | 2650                  | 2650   | 0          | 0.0      | 2190          | 2408   | 218        | 10.0     |
|        | JSEB              | 1130                  | 1080   | -50        | -4.4     | 964           | 1047   | 83         | 8.6      |
|        | DVC               | 2655                  | 2670   | 15         | 0.6      | 2755          | 2717   | -38        | -1.4     |
|        | Odisha            | 3650                  | 3700   | 50         | 1.4      | 3647          | 3637   | -10        | -0.3     |
|        | West Bengal       | 7282                  | 7415   | 133        | 1.8      | 7462          | 7621   | 159        | 2.1      |
| TOTAL  | 17367             | 17515                 | 148    | 0.9        | 17018    | 17430         | 412    | 2.4        |          |
| NER    | Arunachal Pradesh | 114                   | 118    | 4          | 3.5      | 111           | 116    | 5          | 4.5      |
|        | Assam             | 1368                  | 1375   | 7          | 0.5      | 1210          | 1242   | 32         | 2.7      |
|        | Manipur           | 137                   | 140    | 3          | 2.2      | 118           | 138    | 20         | 17.3     |
|        | MeSEB             | 294                   | 288    | -6         | -2.0     | 271           | 280    | 9          | 3.3      |
|        | Mizoram           | 75                    | 85     | 10         | 13.3     | 62            | 81     | 19         | 30.6     |
|        | Nagaland          | 108                   | 120    | 12         | 11.1     | 103           | 116    | 13         | 12.6     |
|        | Tripura           | 222                   | 240    | 18         | 8.1      | 209           | 235    | 26         | 12.4     |
| TOTAL  | 2318              | 2366                  | 48     | 2.1        | 2084     | 2208          | 124    | 6.0        |          |

**11. SCHEDULE AND DRAWAL OF CONSTITUENTS - August 2014**

| REGION      | STATE             | SCHEDULE (MU) | ACTUAL DRAWAL (MU) | Over drawal(+)/ Under Drawal(-) (MU) | % OD/UD | SCHEDULE (MU/DAY) | ACTUAL DRAWAL (MU/DAY) | Over drawal(+)/ Under Drawal(-) (MU/DAY) |
|-------------|-------------------|---------------|--------------------|--------------------------------------|---------|-------------------|------------------------|--|
| NR          | Chandigarh        | 163.91        | 198.40             | 34.49                                | 21.04   | 5.29              | 6.40                   | 1.11                                     |
|             | Delhi             | 2402.62       | 2358.91            | -43.72                               | -1.82   | 77.50             | 76.09                  | -1.41                                    |
|             | Haryana           | 3149.30       | 3096.20            | -53.10                               | -1.69   | 101.59            | 99.88                  | -1.71                                    |
|             | H.P.              | -29.25        | -6.00              | 23.26                                | -79.50  | -0.94             | -0.19                  | 0.75                                     |
|             | J&K               | 472.06        | 568.34             | 96.28                                | 20.40   | 15.23             | 18.33                  | 3.11                                     |
|             | Punjab            | 3560.56       | 3634.74            | 74.18                                | 2.08    | 114.86            | 117.25                 | 2.39                                     |
|             | Rajasthan         | 1356.07       | 1377.44            | 21.38                                | 1.58    | 43.74             | 44.43                  | 0.69                                     |
|             | U.P.              | 3961.36       | 4146.20            | 184.84                               | 4.67    | 127.79            | 133.75                 | 5.96                                     |
|             | Uttarakhand       | 512.88        | 528.95             | 16.07                                | 3.13    | 16.54             | 17.06                  | 0.52                                     |
| NFF/Railway | 48.30             | 67.98         | 19.69              | 40.76                                | 1.56    | 2.19              | 0.64                   |  |
| WR          | Gujarat           | 1263.90       | 1254.78            | -9.12                                | -0.72   | 40.77             | 40.48                  | -0.29                                    |
|             | Madhya Pradesh    | 2289.93       | 2331.73            | 41.79                                | 1.83    | 73.87             | 75.22                  | 1.35                                     |
|             | Maharashtra       | 3105.62       | 3181.73            | 76.11                                | 2.45    | 100.18            | 102.64                 | 2.46                                     |
|             | Chhattisgarh      | 551.17        | 579.81             | 28.64                                | 5.20    | 17.78             | 18.70                  | 0.92                                     |
|             | Goa               | 212.47        | 220.88             | 8.41                                 | 3.96    | 6.85              | 7.13                   | 0.27                                     |
|             | D&D               | 161.75        | 180.56             | 18.81                                | 11.63   | 5.22              | 5.82                   | 0.61                                     |
|             | D&NH              | 450.45        | 458.81             | 8.37                                 | 1.86    | 14.53             | 14.80                  | 0.27                                     |
|             | ESIL              | 236.49        | 245.46             | 8.97                                 | 3.79    | 7.63              | 7.92                   | 0.29                                     |
| SR          | AP TRANSCO        | 969.34        | 1011.53            | 42.19                                | 4.35    | 31.27             | 32.63                  | 1.36                                     |
|             | TG TRANSCO        | 1933.73       | 2017.92            | 84.19                                | 4.35    | 62.38             | 65.09                  | 2.72                                     |
|             | KPTCL             | 473.13        | 482.04             | 8.91                                 | 1.88    | 15.26             | 15.55                  | 0.29                                     |
|             | KSEB              | 866.95        | 920.14             | 53.19                                | 6.14    | 27.97             | 29.68                  | 1.72                                     |
|             | TNEB              | 2164.90       | 2177.43            | 12.53                                | 0.58    | 69.84             | 70.24                  | 0.40                                     |
|             | PONDICHERRY       | 194.92        | 192.80             | -2.12                                | -1.09   | 6.29              | 6.22                   | -0.07                                    |
| ER          | Bihar             | 1342.84       | 1348.87            | 6.02                                 | 0.45    | 43.32             | 43.51                  | 0.19                                     |
|             | JSEB              | 384.52        | 388.04             | 3.52                                 | 0.91    | 12.40             | 12.52                  | 0.11                                     |
|             | DVC               | -304.53       | -257.96            | 46.57                                | -15.29  | -9.82             | -8.32                  | 1.50                                     |
|             | GRIDCO            | 494.11        | 479.82             | -14.29                               | -2.89   | 15.94             | 15.48                  | -0.46                                    |
|             | WBSEB             | 1477.69       | 1489.91            | 12.22                                | 0.83    | 47.67             | 48.06                  | 0.39                                     |
|             | Sikkim            | 32.68         | 30.77              | -1.91                                | -5.86   | 1.05              | 0.99                   | -0.06                                    |
| NER         | Arunachal Pradesh | 60.42         | 60.48              | 0.06                                 | 0.10    | 1.95              | 1.95                   | 0.00                                     |
|             | Assam             | 481.70        | 489.83             | 8.13                                 | 1.69    | 15.54             | 15.80                  | 0.26                                     |
|             | Manipur           | 72.66         | 68.00              | -4.65                                | -6.40   | 2.34              | 2.19                   | -0.15                                    |
|             | MeSEB             | 22.65         | 15.09              | -7.57                                | -33.41  | 0.73              | 0.49                   | -0.24                                    |
|             | Mizoram           | 36.55         | 37.56              | 1.02                                 | 2.78    | 1.18              | 1.21                   | 0.03                                     |
|             | Nagaland          | 54.24         | 47.63              | -6.60                                | -12.17  | 1.75              | 1.54                   | -0.21                                    |
|             | Tripura           | 51.05         | 55.25              | 4.20                                 | 8.23    | 1.65              | 1.78                   | 0.14                                     |

## 12. INTER REGIONAL EXCHANGES 2014-15

|  | April'14       | May'14         | June'14        | July'14        | Aug'14         | Fin. Year 2014-15<br>Till August 2014 |
|--|----------------|----------------|----------------|----------------|----------------|---------------------------------------|
| Name of Line                               |                |                |                |                |                |                                       |
| <b>Import of NR from WR (WR-NR)</b>        |                |                |                |                |                |                                       |
| WR - NR 765 kV Gwalior - Agra D/C          | 1131.41        | 1094.02        | 1169.37        | 1136.35        | 1056.36        | 5587.51                               |
| WR - NR HVDC Vindhyachal                   | 226.93         | 146.02         | 220.87         | 76.68          | 102.45         | 772.95                                |
| WR - NR 400 kV Zerda Kankroli              | 0.00           | 0.00           | 0.00           | 1.12           | 0.35           | 1.47                                  |
| WR - NR 400 kV Zerda Bhinmal               | 0.00           | 0.00           | 0.11           | 0.11           | 4.56           | 4.78                                  |
| WR - NR 220 kV Badod - Kota/ Modak         | 0.00           | 0.00           | 5.46           | 3.26           | 6.72           | 15.44                                 |
| WR - NR 220 kV Auraiya - Malanpur/Mehgaon  | 0.00           | 0.00           | 2.26           | 0.00           | 0.00           | 2.26                                  |
| WR - NR HVDC Mundra - Mohindergarh         | 1435.93        | 1407.11        | 1420.90        | 1508.24        | 1425.60        | 7197.78                               |
| <b>Total WR - NR</b>                       | <b>2794.27</b> | <b>2647.15</b> | <b>2818.96</b> | <b>2725.76</b> | <b>2877.20</b> | <b>13863.35</b>                       |
| <b>Import of NR from ER (ER-NR)</b>        |                |                |                |                |                |                                       |
| ER - NR 765 kV Sasaram - Fatehpur          | 15.63          | 29.42          | 61.54          | 63.42          | 127.24         | 297.24                                |
| ER - WR 765 kV Gaya - Fatehpur             | 0.00           | 5.45           | 7.52           | 10.10          | 47.03          | 70.10                                 |
| ER - WR 400 kV Pusauli - Balia             | 1.80           | 0.00           | 2.18           | 1.89           | 10.35          | 16.22                                 |
| ER-NR 400 kV Patna - Balia 2xD/C           | 199.41         | 188.18         | 196.33         | 216.02         | 228.67         | 1028.60                               |
| ER - NR 400 kV Muzaffarpur - Gorakhpur D/C | 60.87          | 153.36         | 338.00         | 356.61         | 407.36         | 1316.20                               |
| ER - NR 400 kV Biharshariff - Balia D/C    | 73.20          | 134.72         | 234.73         | 161.92         | 210.72         | 815.29                                |
| ER - NR HVDC Sasaram ( Bypass)             | 214.12         | 275.04         | 232.52         | 300.59         | 130.61         | 1152.88                               |
| ER - NR 220 kV Pusauli - Sahupuri          | 112.59         | 109.26         | 117.30         | 106.27         | 99.97          | 545.38                                |
| ER - NR 132 kV Sahupuri - Karamnasa        | 0.00           | 0.00           | 0.00           | 0.00           | 6.72           | 6.72                                  |
| ER - NR 132 kV Rihand - Son Nagar          | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                                  |
| <b>Total NR - WR</b>                       | <b>677.62</b>  | <b>895.41</b>  | <b>1190.11</b> | <b>1216.83</b> | <b>1268.66</b> | <b>5248.62</b>                        |
| <b>Export of NR to WR (NR-WR)</b>          |                |                |                |                |                |                                       |
| NR - WR 765 kV Gwalior - Agra D/C          | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                                  |
| NR - WR HVDC Vindhyachal                   | 7.75           | 36.56          | 10.16          | 68.79          | 110.02         | 233.28                                |
| NR - WR 400 kV Zerda Kankroli              | 180.30         | 135.80         | 123.34         | 131.77         | 112.67         | 683.87                                |
| NR - WR 400 kV Zerda Bhinmal               | 133.65         | 98.67          | 104.05         | 114.09         | 93.08          | 543.54                                |
| NR - WR 220 kV Badod - Kota/ Modak         | 88.03          | 68.11          | 90.43          | 54.24          | 69.10          | 369.92                                |
| NR - WR 220 kV Auraiya - Malanpur/Mehgaon  | 26.51          | 28.54          | 26.76          | 37.59          | 50.65          | 170.05                                |
| NR - WR HVDC Mundra - Mohindergarh         | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                                  |
| <b>Total NR - WR</b>                       | <b>436.24</b>  | <b>367.68</b>  | <b>354.74</b>  | <b>406.49</b>  | <b>435.52</b>  | <b>2000.66</b>                        |
| <b>Export of NR to ER (NR-ER)</b>          |                |                |                |                |                |                                       |
| NR - ER 765 kV Sasaram - Fatehpur          | 39.73          | 10.26          | 1.31           | 1.06           | 0.79           | 53.15                                 |
| NR - ER 765 kV Gaya - Fatehpur             | 50.11          | 22.91          | 1.64           | 3.28           | 2.64           | 80.58                                 |
| NR - ER 400 kV Pusauli - Balia             | 66.02          | 53.18          | 20.67          | 43.56          | 13.45          | 196.89                                |
| NR - ER 400 kV Patna - Balia 2xD/C         | 0.00           | 0.00           | 0.65           | 0.00           | 0.00           | 0.65                                  |
| NR - ER 400 kV Muzaffarpur - Gorakhpur D/C | 5.12           | 1.26           | 0.00           | 0.00           | 0.00           | 6.38                                  |
| NR - ER 400 kV Biharshariff - Balia D/C    | 2.38           | 0.00           | 0.00           | 0.00           | 0.00           | 2.38                                  |
| NR - ER HVDC Sasaram ( Bypass)             | 25.06          | 0.70           | 1.72           | 0.00           | 47.93          | 75.42                                 |
| NR - ER 220 kV Pusauli - Sahupuri          | 0.00           | 0.03           | 0.00           | 3.28           | 3.72           | 7.03                                  |
| NR - ER 132 kV Sahupuri - Karamnasa        | 0.00           | 0.94           | 0.00           | -0.50          | 0.48           | 0.92                                  |
| NR - ER 132 kV Rihand - Son Nagar          | 12.54          | 7.36           | 3.28           | 6.11           | 19.90          | 49.18                                 |
| <b>Total NR - ER</b>                       | <b>200.97</b>  | <b>96.65</b>   | <b>29.27</b>   | <b>56.78</b>   | <b>88.91</b>   | <b>472.58</b>                         |

## 12. INTER REGIONAL EXCHANGES 2014-15

|   | April'14       | May'14         | June'14        | July'14        | Aug'14         | Fin. Year 2014-15<br>Till August 2014 |
|---|----------------|----------------|----------------|----------------|----------------|---------------------------------------|
| Name of Line                              |                |                |                |                |                |                                       |
| <b>Export of WR to ER (WR-ER)</b>         |                |                |                |                |                |                                       |
| WR - ER 765 kV Ranchi - Dharamjaygarh     | 4.29           | 72.09          | 2.90           | -84.11         | -112.10        | -116.93                               |
| WR - ER 400 kV Sipat - Ranchi D/C         | 5.57           | 97.73          | 44.48          | -64.65         | -69.00         | 147.77                                |
| WR - ER 400 kV Raigarh - Sterlite D/C     | 0.00           | 0.00           | 0.37           | -79.86         | -55.03         | 0.37                                  |
| WR - ER 400 kV Raigarh - Jharsuguda D/C   | 2.20           | 78.59          | 45.11          | -134.56        | -59.72         | 125.90                                |
| WR - ER 220 kV Korba - Budhipadar D/C     | 0.19           | 10.23          | 8.18           | -4.97          | -19.97         | 18.60                                 |
| WR - ER 220 kV Raigarh - Budhipadar       | 0.00           | 0.49           | 0.08           | -0.80          | -6.35          | 0.57                                  |
| <b>Total WR - ER</b>                      | <b>7.95</b>    | <b>259.13</b>  | <b>141.09</b>  | <b>-368.94</b> | <b>-322.17</b> | <b>408.18</b>                         |
| <b>Import of WR from ER (ER - WR)</b>     |                |                |                |                |                |                                       |
| ER - WR 765 kV Ranchi - Dharamjaygarh     | 0.00           | 0.73           | 5.28           | 6.08           | 4.84           | 6.02                                  |
| ER - WR 400 kV Sipat - Ranchi D/C         | 2.42           | 0.00           | 2.53           | 3.75           | 5.35           | 4.95                                  |
| ER - WR 400 kV Raigarh - Sterlite D/C     | 115.86         | 115.02         | 172.47         | 118.86         | 129.37         | 403.35                                |
| ER - WR 400 kV Raigarh - Jharsuguda D/C   | 0.00           | 0.00           | 13.84          | 2.72           | 3.53           | 13.84                                 |
| ER - WR 220 kV Korba - Budhipadar D/C     | 4.66           | 9.39           | 12.19          | 33.53          | 11.44          | 26.24                                 |
| ER - WR 220 kV Raigarh - Budhipadar       | 70.98          | 63.40          | 64.54          | 34.75          | 33.26          | 198.92                                |
| <b>Total ER - WR</b>                      | <b>193.92</b>  | <b>188.55</b>  | <b>270.86</b>  | <b>199.69</b>  | <b>187.79</b>  | <b>653.33</b>                         |
| <b>Export of ER to NER</b>                |                |                |                |                |                |                                       |
| ER - NER 400 kV Binaguri - Bongaigaon D/C | 231.89         | 201.50         | 128.44         | 48.77          | 16.46          | 610.60                                |
| ER - NER 220 kV Birpara - Salakati D/C    | 41.64          | 59.03          | 63.64          | 25.26          | 37.33          | 189.57                                |
| <b>Total ER - NER</b>                     | <b>273.52</b>  | <b>260.53</b>  | <b>192.08</b>  | <b>74.03</b>   | <b>53.80</b>   | <b>726.13</b>                         |
| <b>Import of ER from NER (NER - ER)</b>   |                |                |                |                |                |                                       |
| NER - ER 400 kV Binaguri - Bongaigaon D/C | 0.00           | 0.00           | 6.92           | -34.70         | -87.32         | -27.78                                |
| NER - ER 220 kV Birpara - Salakati D/C    | 0.00           | 0.00           | 0.00           | -0.46          | -2.02          | -0.46                                 |
| <b>Total NER - ER</b>                     | <b>0.00</b>    | <b>0.00</b>    | <b>6.92</b>    | <b>-35.16</b>  | <b>-89.34</b>  | <b>6.92</b>                           |
| <b>Export of ER to SR (ER - SR)</b>       |                |                |                |                |                |                                       |
| ER - SR HVDC Gazuwaka                     | 534.56         | 526.50         | 394.52         | 488.09         | 480.65         | 1455.59                               |
| ER - SR HVDC Talchar - Kolar              | 1419.85        | 1299.16        | 1345.00        | 1431.12        | 199.57         | 4064.01                               |
| <b>Total ER - SR</b>                      | <b>1954.41</b> | <b>1825.70</b> | <b>1739.53</b> | <b>1919.21</b> | <b>680.22</b>  | <b>5519.64</b>                        |
| <b>Import of ER from SR (SR - ER)</b>     |                |                |                |                |                |                                       |
| SR - ER HVDC Gazuwaka                     | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                                  |
| SR - ER HVDC Talchar - Kolar              | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                                  |
| <b>Total SR - ER</b>                      | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>                           |
| <b>Export of WR to SR (WR-SR)</b>         |                |                |                |                |                |                                       |
| WR - SR HVDC Bhadravati                   | 691.96         | 692.54         | 675.04         | 727.00         | 9.81           | 2786.54                               |
| WR - SR 765 kV Sholapur - Raichur         | 78.84          | 68.83          | 79.31          | 118.00         | 7.80           | 344.98                                |
| <b>Total WR - SR</b>                      | <b>770.80</b>  | <b>761.36</b>  | <b>754.35</b>  | <b>845.00</b>  | <b>17.61</b>   | <b>2286.51</b>                        |
| <b>Import of WR from SR (SR - WR)</b>     |                |                |                |                |                |                                       |
| SR - WR HVDC Bhadravati                   | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                                  |
| SR - WR 765 kV Raichur - Sholapur         | 35.99          | 47.17          | 50.50          | 51.39          | 0.56           | 185.04                                |
| <b>Total SR - WR</b>                      | <b>35.99</b>   | <b>47.17</b>   | <b>50.50</b>   | <b>51.39</b>   | <b>0.56</b>    | <b>133.65</b>                         |
| <b>TOTAL ALL INDIA</b>                    | <b>7346</b>    | <b>7349</b>    | <b>7548</b>    | <b>7091</b>    | <b>5199</b>    | <b>34533</b>                          |

| Date      | 12.1 Import of NR from WR & ER during August 2014 |                           |   |  |   |   |                                       |                                       |                  |  |   |  |   |   |  |   |  |   |  |                 |
|-----------|---|---------------------------|---|--|---|---|---------------------------------------|---------------------------------------|------------------|--|---|--|---|---|--|---|--|---|--|-----------------|
|           | Import of NR from WR (WR-NR)                      |                           |   |  |   |   |                                       |                                       |                  | Import of NR from ER (ER-NR)               |   |  |   |   |  |   |  |   |  |                 |
|           | WR - NR<br>765 kV<br>Gwalior -<br>Agra D/C        | WR - NR<br>HVDC<br>V'chal | WR - NR<br>400 kV<br>Zerda-<br>Kankroli | WR - NR<br>400 kV<br>Zerda-<br>Bhinmal | WR - NR<br>220 kV<br>Badod -<br>Kota /<br>Modak | WR - NR<br>220 kV<br>Auraiya -<br>Malanpur /<br>Mehgaon | WR-NR 400<br>KV Rihand<br>Vindhyachal | WR - NR<br>HVDC<br>Mundra -<br>M'garh | Total WR -<br>NR | ER - NR<br>765 kV<br>Sasaram -<br>Fatehpur | ER - WR<br>765 kV<br>Gaya -<br>Fatehpur | ER - WR<br>400 kV<br>Pusauli -<br>Balialia | ER-NR 400<br>kV Patna -<br>Balialia<br>2x2D/C | ER - NR 400<br>kV<br>Muzaffarpur -<br>G'pur D/C | ER - NR<br>400 kV<br>B'shariff -<br>Balialia D/C | ER - NR<br>HVDC<br>Sasaram<br>(Byepass) | ER - NR<br>220 kV<br>Pusauli -<br>Sahupuri | ER - NR<br>132 kV<br>Sahupuri -<br>K'nasa | ER - NR<br>132 kV<br>Rihand -<br>Son Nagar | Total<br>NR -WR |
| 1-Aug-14  | 35.11   | 0.28                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 10.90                                 | 48.38                                 | 94.67            | 1.52                                       | 0.00                                    | 0.96                                       | 5.21  | 11.01   | 6.72   | 9.60                                    | 3.12                                       | 0.00                                      | 0.00                                       | 38.14           |
| 2-Aug-14  | 31.83   | 0.00                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 9.61                                  | 48.38                                 | 89.82            | 0.68                                       | 0.00                                    | 1.11                                       | 3.81  | 9.32  | 5.92   | 9.68                                    | 3.40                                       | 0.00                                      | 0.00                                       | 33.91           |
| 3-Aug-14  | 27.41   | 0.00                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 9.96                                  | 48.27                                 | 85.64            | 0.53                                       | 0.00                                    | 0.00                                       | 3.21  | 10.18   | 4.89   | 9.82                                    | 3.30                                       | 0.00                                      | 0.00                                       | 31.93           |
| 4-Aug-14  | 26.06   | 0.00                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 10.91                                 | 46.03                                 | 83.49            | 0.16                                       | 0.00                                    | 0.00                                       | 2.64  | 9.38  | 4.63   | 9.66                                    | 3.50                                       | 0.48                                      | 0.00                                       | 30.44           |
| 5-Aug-14  | 25.10   | 0.00                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 11.08                                 | 46.03                                 | 82.21            | 0.00                                       | 0.46                                    | 0.00                                       | 8.45  | 9.83  | 4.37   | 9.80                                    | 3.27                                       | 0.00                                      | 0.00                                       | 36.16           |
| 6-Aug-14  | 28.59   | 0.08                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 11.31                                 | 48.38                                 | 88.85            | 1.30                                       | 1.11                                    | 0.00                                       | 10.59   | 8.74  | 3.13   | 9.63                                    | 3.55                                       | 0.48                                      | 0.00                                       | 38.52           |
| 7-Aug-14  | 33.38   | 0.96                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 11.31                                 | 43.58                                 | 89.23            | 0.96                                       | 0.89                                    | 0.00                                       | 9.76  | 8.74  | 2.62   | 9.63                                    | 3.55                                       | 0.00                                      | 0.00                                       | 36.14           |
| 8-Aug-14  | 30.07   | 3.82                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 11.60                                 | 48.37                                 | 94.34            | 0.55                                       | 0.69                                    | 0.00                                       | 6.06  | 8.63  | 4.47   | 9.64                                    | 3.58                                       | 0.48                                      | 0.00                                       | 34.12           |
| 9-Aug-14  | 33.58   | 1.61                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 12.13                                 | 49.01                                 | 96.79            | 1.21                                       | 1.33                                    | 2.13                                       | 3.92  | 9.71  | 4.51   | 9.73                                    | 3.75                                       | 0.48                                      | 0.00                                       | 36.76           |
| 10-Aug-14 | 32.61   | 0.13                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 10.33                                 | 46.40                                 | 89.48            | 4.09                                       | 2.00                                    | 0.04                                       | 6.34  | 13.60   | 7.00   | 1.98                                    | 3.26                                       | 0.00                                      | 0.00                                       | 38.31           |
| 11-Aug-14 | 34.62   | 0.80                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 8.59                                  | 44.64                                 | 88.65            | 3.54                                       | 1.42                                    | 0.52                                       | 6.46  | 12.78   | 7.33   | 0.01                                    | 2.78                                       | 0.00                                      | 0.00                                       | 34.85           |
| 12-Aug-14 | 36.89   | 2.78                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 8.11                                  | 48.85                                 | 96.62            | 4.51                                       | 2.22                                    | 0.32                                       | 7.26  | 13.49   | 7.65   | 1.53                                    | 3.02                                       | 0.00                                      | 0.00                                       | 39.99           |
| 13-Aug-14 | 29.97   | 1.07                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 8.77                                  | 47.69                                 | 87.49            | 4.48                                       | 2.28                                    | 0.36                                       | 6.80  | 14.83   | 7.13   | 0.12                                    | 3.25                                       | 0.00                                      | 0.00                                       | 39.26           |
| 14-Aug-14 | 34.36   | 2.01                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 9.36                                  | 48.37                                 | 94.09            | 4.29                                       | 2.29                                    | 0.94                                       | 7.76  | 15.71   | 8.08   | 0.08                                    | 3.55                                       | 0.00                                      | 0.00                                       | 42.69           |
| 15-Aug-14 | 31.33   | 0.59                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 8.43                                  | 48.37                                 | 88.73            | 5.31                                       | 2.46                                    | 0.32                                       | 7.74  | 17.39   | 9.47   | 0.21                                    | 3.30                                       | 0.00                                      | 0.00                                       | 46.19           |
| 16-Aug-14 | 33.56   | 1.66                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 8.76                                  | 49.23                                 | 93.69            | 5.52                                       | 2.42                                    | 0.10                                       | 10.02   | 17.05   | 9.74   | 0.23                                    | 3.04                                       | 0.48                                      | 0.00                                       | 48.61           |
| 17-Aug-14 | 27.18   | 0.91                      | 0.00                                    | 1.33                                   | 0.00  | 0.00  | 9.31                                  | 49.93                                 | 88.65            | 5.41                                       | 3.38                                    | 0.07                                       | 9.84  | 16.48   | 8.78   | 2.03                                    | 3.48                                       | 0.00                                      | 0.00                                       | 49.46           |
| 18-Aug-14 | 29.79   | 0.00                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 0.00                                  | 51.92                                 | 82.19            | 6.88                                       | 4.33                                    | 0.01                                       | 9.38  | 17.02   | 8.36   | 0.00                                    | 3.12                                       | 0.48                                      | 0.00                                       | 49.59           |
| 19-Aug-14 | 29.44   | 0.10                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 8.14                                  | 48.38                                 | 86.54            | 6.80                                       | 4.48                                    | 0.18                                       | 12.18   | 16.90   | 8.23   | 2.87                                    | 0.00                                       | 0.48                                      | 0.00                                       | 52.11           |
| 20-Aug-14 | 36.26   | 5.17                      | 0.00                                    | 0.00                                   | 0.48  | 0.00  | 0.00                                  | 48.38                                 | 90.29            | 6.80                                       | 4.48                                    | 0.00                                       | 7.71  | 17.06   | 8.85   | 4.00                                    | 2.76                                       | 0.48                                      | 0.00                                       | 52.13           |
| 21-Aug-14 | 33.03   | 6.69                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 8.19                                  | 49.45                                 | 97.36            | 6.72                                       | 1.81                                    | 0.00                                       | 9.26  | 15.41   | 8.05   | 0.00                                    | 3.23                                       | 0.00                                      | 0.00                                       | 44.48           |
| 22-Aug-14 | 33.93   | 3.96                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 8.57                                  | 48.66                                 | 95.13            | 6.63                                       | 0.69                                    | 0.08                                       | 7.43  | 14.09   | 7.08   | 0.00                                    | 3.74                                       | 0.00                                      | 0.00                                       | 39.74           |
| 23-Aug-14 | 36.80   | 2.88                      | 0.00                                    | 0.28                                   | 0.00  | 0.00  | 8.15                                  | 48.39                                 | 96.49            | 6.57                                       | 0.79                                    | 0.15                                       | 7.52  | 12.75   | 6.69   | 0.00                                    | 4.11                                       | 0.00                                      | 0.00                                       | 38.58           |
| 24-Aug-14 | 39.00   | 8.10                      | 0.35                                    | 2.05                                   | 0.00  | 0.00  | 8.11                                  | 48.39                                 | 106.01           | 7.60                                       | 0.73                                    | 0.44                                       | 6.47  | 14.08   | 6.70   | 0.00                                    | 3.51                                       | 0.00                                      | 0.00                                       | 39.53           |
| 25-Aug-14 | 29.91   | 9.92                      | 0.00                                    | 0.90                                   | 0.00  | 0.00  | 8.38                                  | 50.30                                 | 99.41            | 8.27                                       | 1.67                                    | 0.44                                       | 6.93  | 15.93   | 7.49   | 0.00                                    | 3.43                                       | 0.00                                      | 0.00                                       | 44.16           |
| 26-Aug-14 | 41.04   | 9.06                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 8.51                                  | 51.92                                 | 110.54           | 6.51                                       | 0.33                                    | 0.62                                       | 5.32  | 13.63   | 7.19   | 0.00                                    | 3.18                                       | 0.00                                      | 0.00                                       | 36.78           |
| 27-Aug-14 | 34.96   | 9.36                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 9.82                                  | 40.91                                 | 95.06            | 5.80                                       | 0.97                                    | 0.46                                       | 4.54  | 12.02   | 6.25   | 6.29                                    | 3.04                                       | 0.00                                      | 0.00                                       | 39.37           |
| 28-Aug-14 | 36.26   | 6.40                      | 0.00                                    | 0.00                                   | 0.96  | 0.00  | 10.92                                 | 28.61                                 | 83.15            | 6.31                                       | 1.90                                    | 0.37                                       | 6.23  | 14.23   | 6.47   | 5.56                                    | 3.48                                       | 0.96                                      | 0.00                                       | 45.52           |
| 29-Aug-14 | 46.21   | 11.77                     | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 10.43                                 | 28.99                                 | 97.40            | 6.53                                       | 1.80                                    | 0.71                                       | 10.52   | 14.70   | 8.37   | 0.00                                    | 3.10                                       | 0.00                                      | 0.00                                       | 45.73           |
| 30-Aug-14 | 51.61   | 7.35                      | 0.00                                    | 0.00                                   | 0.96  | 0.00  | 10.75                                 | 34.99                                 | 105.67           | 0.48                                       | 0.00                                    | 0.00                                       | 12.51   | 11.88   | 8.85   | 9.29                                    | 3.32                                       | 0.96                                      | 0.00                                       | 47.28           |
| 31-Aug-14 | 46.47   | 4.98                      | 0.00                                    | 0.00                                   | 0.96  | 0.00  | 10.75                                 | 36.39                                 | 99.54            | 1.29                                       | 0.14                                    | 0.00                                       | 6.82  | 10.79   | 5.74   | 9.23                                    | 3.26                                       | 0.96                                      | 0.00                                       | 38.22           |
| Total     | 1056.36   | 102.45                    | 0.35                                    | 4.56                                   | 6.72  | 0.00  | 281.17                                | 1425.60                               | 2877.20          | 127.24                                     | 47.03                                   | 10.35                                      | 228.67  | 407.36  | 210.72   | 130.61                                  | 99.97                                      | 6.72                                      | 0.00                                       | 1268.66         |

| Date         | 12.2 Export of NR to WR & ER during August 2014 |                           |   |  |   |   |                                       |                  |  |   |   |   |   |   |   |  |   |  |                 |
|--------------|---|---------------------------|---|--|---|---|---------------------------------------|------------------|--|---|---|---|---|---|---|--|---|--|-----------------|
|              | Export of NR to WR (NR- WR)                     |                           |   |  |   |   |                                       |                  | Export of NR to ER (NR- ER)                |   |   |   |   |   |   |  |   |  |                 |
|              | WR - NR<br>765 kV<br>Gwalior -<br>Agra D/C      | WR - NR<br>HVDC<br>V'chal | WR - NR<br>400 kV<br>Zerda-<br>Kankroli | WR - NR<br>400 kV<br>Zerda-<br>Bhinmal | WR - NR<br>220 kV<br>Badod -<br>Kota /<br>Modak | WR - NR<br>220 kV<br>Auraiya -<br>Malanpur /<br>Mehgaon | WR - NR<br>HVDC<br>Mundra -<br>M'garh | Total<br>WR - NR | ER - NR<br>765 kV<br>Sasaram -<br>Fatehpur | ER - WR<br>765 kV<br>Gaya -<br>Fatehpur | ER - WR<br>400 kV<br>Pusauli -<br>Balua | ER-NR 400<br>kV Patna -<br>Balua<br>2xD/C | ER - NR 400<br>kV<br>Muzaffarpur -<br>G'pur D/C | ER - NR<br>400 kV<br>B'shariff -<br>Balua D/C | ER - NR<br>HVDC<br>Sasaram<br>(Byepass) | ER - NR<br>220 kV<br>Pusauli -<br>Sahupuri | ER - NR<br>132 kV<br>Sahupuri -<br>K'nasa | ER - NR<br>132 kV<br>Rihand -<br>Son Nagar | Total<br>NR -WR |
| 1-Aug-14     | 0.00  | 4.08                      | 3.88                                    | 3.32                                   | 1.12  | 0.35  | 0.00                                  | 12.75            | 0.00                                       | 0.04                                    | 0.00                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.77                                      | 0.80                                       |                 |
| 2-Aug-14     | 0.00  | 10.22                     | 3.51                                    | 3.01                                   | 1.94  | 1.38  | 0.00                                  | 20.06            | 0.00                                       | 0.49                                    | 0.00                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.63                                      | 1.12                                       |                 |
| 3-Aug-14     | 0.00  | 7.18                      | 3.62                                    | 3.31                                   | 3.22  | 1.46  | 0.00                                  | 18.78            | 0.00                                       | 0.78                                    | 1.34                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | -0.57                                     | 1.56                                       |                 |
| 4-Aug-14     | 0.00  | 9.92                      | 6.70                                    | 5.86                                   | 4.45  | 1.28  | 0.00                                  | 28.20            | 0.00                                       | 0.91                                    | 1.88                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.57                                      | 3.37                                       |                 |
| 5-Aug-14     | 0.00  | 10.09                     | 6.48                                    | 5.75                                   | 3.85  | 1.32  | 0.00                                  | 27.49            | 0.79                                       | 0.00                                    | 1.28                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.57                                      | 2.65                                       |                 |
| 6-Aug-14     | 0.00  | 7.31                      | 5.14                                    | 4.95                                   | 2.42  | 0.83  | 0.00                                  | 20.65            | 0.00                                       | 0.00                                    | 1.64                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.80                                      | 2.44                                       |                 |
| 7-Aug-14     | 0.00  | 5.57                      | 5.83                                    | 6.72                                   | 2.31  | 0.83  | 0.00                                  | 21.26            | 0.00                                       | 0.00                                    | 1.75                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.48                                       | 0.80                                      | 3.03                                       |                 |
| 8-Aug-14     | 0.00  | 1.45                      | 5.84                                    | 6.57                                   | 3.32  | 1.04  | 0.00                                  | 18.22            | 0.00                                       | 0.00                                    | 1.33                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.80                                      | 2.13                                       |                 |
| 9-Aug-14     | 0.00  | 1.20                      | 4.12                                    | 4.04                                   | 2.63  | 1.34  | 0.00                                  | 13.34            | 0.00                                       | 0.00                                    | 2.13                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.85                                      | 2.98                                       |                 |
| 10-Aug-14    | 0.00  | 5.03                      | 4.02                                    | 3.88                                   | 1.77  | 1.05  | 0.00                                  | 15.75            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 2.17  | 0.00                                    | 0.00                                       | 0.71                                      | 2.87                                       |                 |
| 11-Aug-14    | 0.00  | 3.02                      | 4.66                                    | 4.98                                   | 2.76  | 0.00  | 0.00                                  | 15.42            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 1.72  | 0.00                                    | 0.00                                       | 0.77                                      | 2.48                                       |                 |
| 12-Aug-14    | 0.00  | 2.24                      | 4.07                                    | 4.35                                   | 2.76  | 0.72  | 0.00                                  | 14.14            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 0.07  | 0.00                                    | 0.00                                       | 0.70                                      | 0.78                                       |                 |
| 13-Aug-14    | 0.00  | 3.38                      | 5.21                                    | 5.26                                   | 2.71  | 1.32  | 0.00                                  | 17.89            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 2.09  | 0.00                                    | 0.00                                       | 0.27                                      | 2.36                                       |                 |
| 14-Aug-14    | 0.00  | 2.03                      | 4.85                                    | 4.65                                   | 3.04  | 0.91  | 0.00                                  | 15.48            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 2.23  | 0.00                                    | 0.00                                       | -0.56                                     | 1.66                                       |                 |
| 15-Aug-14    | 0.00  | 7.16                      | 5.87                                    | 5.60                                   | 3.18  | 1.10  | 0.00                                  | 22.90            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 0.80  | 0.00                                    | 0.00                                       | 0.80                                      | 1.59                                       |                 |
| 16-Aug-14    | 0.00  | 3.30                      | 4.59                                    | 3.88                                   | 2.69  | 2.30  | 0.00                                  | 16.75            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 1.08  | 0.00                                    | 0.00                                       | 0.80                                      | 1.89                                       |                 |
| 17-Aug-14    | 0.00  | 8.21                      | 2.71                                    | 0.00                                   | 2.32  | 1.72  | 0.00                                  | 14.96            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.86                                      | 0.86                                       |                 |
| 18-Aug-14    | 0.00  | 8.59                      | 2.12                                    | 0.80                                   | 1.89  | 1.35  | 0.00                                  | 14.76            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 3.02  | 0.00                                    | 0.00                                       | 0.86                                      | 3.88                                       |                 |
| 19-Aug-14    | 0.00  | 7.86                      | 2.32                                    | 1.08                                   | 1.89  | 1.45  | 0.00                                  | 14.60            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 0.01  | 3.72                                    | 0.00                                       | 0.92                                      | 4.65                                       |                 |
| 20-Aug-14    | 0.00  | 0.00                      | 1.79                                    | 0.95                                   | 1.89  | 2.22  | 0.00                                  | 6.84             | 0.00                                       | 0.00                                    | 0.03                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.78                                      | 0.80                                       |                 |
| 21-Aug-14    | 0.00  | 0.00                      | 1.66                                    | 1.02                                   | 1.47  | 1.88  | 0.00                                  | 6.02             | 0.00                                       | 0.00                                    | 0.17                                    | 0.00                                      | 0.00  | 4.33  | 0.00                                    | 0.00                                       | -0.79                                     | 3.70                                       |                 |
| 22-Aug-14    | 0.00  | 0.47                      | 1.71                                    | 0.39                                   | 1.66  | 2.24  | 0.00                                  | 6.47             | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 5.51  | 0.00                                    | 0.00                                       | 0.71                                      | 6.22                                       |                 |
| 23-Aug-14    | 0.00  | 1.40                      | 1.34                                    | 0.00                                   | 1.48  | 2.68  | 0.00                                  | 6.90             | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 4.82  | 0.00                                    | 0.00                                       | 0.84                                      | 5.66                                       |                 |
| 24-Aug-14    | 0.00  | 0.00                      | 0.00                                    | 0.00                                   | 0.00  | 2.27  | 0.00                                  | 2.27             | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 4.95  | 0.00                                    | 0.00                                       | 0.86                                      | 5.82                                       |                 |
| 25-Aug-14    | 0.00  | 0.00                      | 0.31                                    | 0.00                                   | 0.04  | 2.47  | 0.00                                  | 2.81             | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 4.04  | 0.00                                    | 0.00                                       | 0.82                                      | 4.87                                       |                 |
| 26-Aug-14    | 0.00  | 0.06                      | 1.17                                    | 0.51                                   | 0.80  | 1.58  | 0.00                                  | 4.12             | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 5.96  | 0.00                                    | 0.00                                       | 0.96                                      | 6.91                                       |                 |
| 27-Aug-14    | 0.00  | 0.00                      | 2.70                                    | 1.75                                   | 1.98  | 2.05  | 0.00                                  | 8.48             | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.88                                      | 0.88                                       |                 |
| 28-Aug-14    | 0.00  | 0.00                      | 4.34                                    | 3.21                                   | 1.26  | 3.32  | 0.00                                  | 12.13            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.78                                      | 0.78                                       |                 |
| 29-Aug-14    | 0.00  | 0.00                      | 3.81                                    | 2.57                                   | 7.30  | 3.10  | 0.00                                  | 16.78            | 0.00                                       | 0.00                                    | 0.00                                    | 0.00                                      | 0.00  | 5.13  | 0.00                                    | 0.00                                       | 0.87                                      | 6.00                                       |                 |
| 30-Aug-14    | 0.00  | 0.25                      | 4.00                                    | 2.38                                   | 0.00  | 2.80  | 0.00                                  | 9.43             | 0.00                                       | 0.42                                    | 0.58                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.98                                      | 1.98                                       |                 |
| 31-Aug-14    | 0.00  | 0.00                      | 4.32                                    | 2.30                                   | 0.98  | 2.29  | 0.00                                  | 9.89             | 0.00                                       | 0.00                                    | 1.33                                    | 0.00                                      | 0.00  | 0.00  | 0.00                                    | 0.00                                       | 0.88                                      | 2.21                                       |                 |
| Total August | 0.00  | 110.02                    | 112.67                                  | 93.08                                  | 69.10   | 50.65   | 0.00                                  | 435.52           | 0.79                                       | 2.64                                    | 13.45                                   | 0.00                                      | 0.00  | 0.00  | 47.93                                   | 3.72                                       | 0.48                                      | 19.90                                      | 88.91           |

| Date      | 12.3 Import - Export of ER with WR & NER during August 2014 |                                   |  |   |                                       |                                     |               |  |                                   |  |   |                                       |                                     |               |   |  |                |   |  |                |
|-----------|---|-----------------------------------|--|---|---------------------------------------|-------------------------------------|---------------|--|-----------------------------------|--|---|---------------------------------------|-------------------------------------|---------------|---|--|----------------|---|--|----------------|
|           | Export of WR to ER (WR-ER)                                  |                                   |  |   |                                       |                                     |               | Import of WR from ER (ER - WR)           |                                   |  |   |                                       |                                     |               | Export of ER to NER (ER - NER)            |  |                | Import of ER from NER (NER - ER)          |  |                |
|           | WR - ER 765 kV Dharamjygarh - Ranchi D/C                    | WR - ER 400 kV Sipat - Ranchi D/C | WR - ER 400 kV Raigarh - Sterilite D/C | WR - ER 400 kV Raigarh - Jharsuguda D/C | WR - ER 220 kV Korba - Budhipadar D/C | WR - ER 220 kV Raigarh - Budhipadar | Total WR - ER | WR - ER 765 kV Dharamjygarh - Ranchi D/C | ER - WR 400 kV Sipat - Ranchi D/C | ER - WR 400 kV Raigarh - Sterilite D/C | ER - WR 400 kV Raigarh - Jharsuguda D/C | ER - WR 220 kV Korba - Budhipadar D/C | ER - WR 220 kV Raigarh - Budhipadar | Total ER - WR | ER - NER 400 kV Binaguri - Bongaigaon D/C | ER - NER 220 kV Birpara - Salakati D/C | Total ER - NER | NER - ER 400 kV Binaguri - Bongaigaon D/C | NER - ER 220 kV Birpara - Salakati D/C | Total NER - ER |
| 1-Aug-14  | -4.67   | -3.45                             | -3.11                                  | -3.38                                   | -1.33                                 | -0.61                               | -16.54        | 0.0                                      | 0.0                               | 2.2                                    | 0.00                                    | 0.00                                  | 0.00                                | 2.21          | 2.37                                      | 1.68                                   | 4.05           | 0.00                                      | 0.00                                   | 0.00           |
| 2-Aug-14  | -5.22   | -3.86                             | -3.47                                  | -4.18                                   | -0.64                                 | -0.32                               | -17.69        | 0.0                                      | 0.0                               | 1.8                                    | 0.00                                    | 0.04                                  | 0.12                                | 1.94          | 1.85                                      | 1.68                                   | 3.53           | -0.01                                     | 0.00                                   | -0.01          |
| 3-Aug-14  | -3.89   | -3.14                             | -3.45                                  | -4.56                                   | -1.04                                 | -0.18                               | -16.26        | 0.0                                      | 0.0                               | 1.6                                    | 0.00                                    | 0.01                                  | 0.22                                | 1.87          | 0.57                                      | 1.47                                   | 2.04           | -0.63                                     | 0.00                                   | -0.63          |
| 4-Aug-14  | -3.93   | -3.31                             | -2.13                                  | -5.04                                   | -1.55                                 | -0.46                               | -16.42        | 0.0                                      | 0.0                               | 1.1                                    | 0.00                                    | 0.00                                  | 0.05                                | 1.15          | 0.40                                      | 1.30                                   | 1.70           | -1.68                                     | 0.00                                   | -1.68          |
| 5-Aug-14  | -3.81   | -3.11                             | -3.25                                  | -4.15                                   | -1.49                                 | -0.33                               | -16.15        | 0.0                                      | 0.0                               | 2.0                                    | 0.00                                    | 0.00                                  | 0.17                                | 2.14          | 0.44                                      | 1.20                                   | 1.64           | -1.45                                     | 0.00                                   | -1.46          |
| 6-Aug-14  | -4.44   | -3.21                             | -3.35                                  | -3.54                                   | -1.71                                 | -0.87                               | -17.12        | 0.0                                      | 0.0                               | 2.0                                    | 0.00                                    | 0.00                                  | 0.00                                | 1.99          | 0.72                                      | 1.43                                   | 2.15           | -0.34                                     | 0.00                                   | -0.34          |
| 7-Aug-14  | -4.68   | -3.40                             | -3.42                                  | -3.99                                   | -1.67                                 | -0.73                               | -17.90        | 0.0                                      | 0.0                               | 2.2                                    | 0.00                                    | 0.00                                  | 0.02                                | 2.24          | 0.78                                      | 1.44                                   | 2.22           | -0.22                                     | 0.00                                   | -0.22          |
| 8-Aug-14  | -4.68   | -3.42                             | -2.99                                  | -3.23                                   | -1.55                                 | -0.46                               | -16.32        | 0.0                                      | 0.0                               | 2.7                                    | 0.00                                    | 0.00                                  | 0.04                                | 2.76          | 0.62                                      | 1.30                                   | 1.92           | -0.27                                     | 0.00                                   | -0.27          |
| 9-Aug-14  | -3.12   | -2.11                             | -1.87                                  | -2.04                                   | -1.20                                 | -0.29                               | -10.63        | 0.0                                      | 0.0                               | 3.1                                    | 0.02                                    | 0.00                                  | 0.05                                | 3.14          | 0.67                                      | 1.35                                   | 2.03           | -0.55                                     | 0.00                                   | -0.55          |
| 10-Aug-14 | -3.22   | -2.05                             | -2.12                                  | -2.39                                   | -1.21                                 | -0.64                               | -11.63        | 0.0                                      | 0.0                               | 2.9                                    | 0.00                                    | 0.00                                  | 0.08                                | 2.97          | 0.58                                      | 1.21                                   | 1.79           | -1.31                                     | 0.00                                   | -1.31          |
| 11-Aug-14 | -4.50   | -2.94                             | -2.55                                  | -2.93                                   | -0.77                                 | -0.57                               | -14.26        | 0.0                                      | 0.0                               | 2.5                                    | 0.00                                    | 0.00                                  | 0.00                                | 2.47          | 0.47                                      | 1.35                                   | 1.83           | -0.66                                     | 0.00                                   | -0.66          |
| 12-Aug-14 | -4.36   | -2.74                             | -2.26                                  | -2.70                                   | -0.44                                 | -0.27                               | -12.77        | 0.0                                      | 0.0                               | 3.7                                    | 0.00                                    | 0.00                                  | 0.05                                | 3.78          | 0.25                                      | 1.09                                   | 1.33           | -1.49                                     | 0.00                                   | -1.49          |
| 13-Aug-14 | -3.04   | -1.79                             | -1.51                                  | -1.48                                   | -0.52                                 | -0.15                               | -8.49         | 0.0                                      | 0.0                               | 4.6                                    | 0.01                                    | 0.01                                  | 0.10                                | 4.73          | 0.10                                      | 0.84                                   | 0.95           | -3.54                                     | -0.02                                  | -3.56          |
| 14-Aug-14 | -2.34   | -1.68                             | -1.02                                  | -0.73                                   | -0.64                                 | -0.21                               | -6.61         | 0.1                                      | 0.2                               | 5.4                                    | 0.49                                    | 0.09                                  | 0.31                                | 6.52          | 0.06                                      | 0.31                                   | 0.37           | -5.32                                     | -0.17                                  | -5.49          |
| 15-Aug-14 | -0.93   | -0.67                             | -0.96                                  | -0.97                                   | -0.62                                 | -0.10                               | -4.26         | 0.1                                      | 0.1                               | 3.2                                    | 0.05                                    | 0.02                                  | 0.41                                | 3.89          | 0.04                                      | 0.38                                   | 0.42           | -7.09                                     | -0.54                                  | -7.63          |
| 16-Aug-14 | -1.06   | -0.70                             | -0.77                                  | -0.87                                   | -0.49                                 | -0.05                               | -3.94         | 0.5                                      | 0.5                               | 4.0                                    | 0.15                                    | 0.02                                  | 0.39                                | 5.54          | 0.01                                      | 0.27                                   | 0.28           | -7.15                                     | -0.51                                  | -7.66          |
| 17-Aug-14 | -0.66   | -0.37                             | -0.67                                  | -0.67                                   | -0.35                                 | -0.05                               | -2.76         | 1.0                                      | 0.9                               | 4.6                                    | 0.51                                    | 0.10                                  | 0.69                                | 7.83          | 0.00                                      | 0.46                                   | 0.46           | -6.93                                     | -0.22                                  | -7.15          |
| 18-Aug-14 | -0.31   | -0.13                             | -0.28                                  | -0.26                                   | -0.15                                 | -0.02                               | -1.15         | 1.2                                      | 1.3                               | 6.8                                    | 0.65                                    | 0.26                                  | 0.72                                | 10.99         | 0.00                                      | 0.33                                   | 0.33           | -8.01                                     | -0.14                                  | -8.15          |
| 19-Aug-14 | -0.24   | -0.03                             | -0.27                                  | -0.18                                   | -0.52                                 | -0.03                               | -1.27         | 1.0                                      | 1.0                               | 6.5                                    | 0.46                                    | 0.06                                  | 0.42                                | 9.38          | 0.00                                      | 0.27                                   | 0.27           | -7.88                                     | -0.40                                  | -8.28          |
| 20-Aug-14 | -0.48   | -0.06                             | -0.26                                  | -1.03                                   | -0.17                                 | 0.00                                | -2.00         | 0.8                                      | 0.8                               | 6.7                                    | 0.20                                    | 0.65                                  | 1.53                                | 10.71         | 0.45                                      | 1.40                                   | 1.85           | -3.32                                     | 0.00                                   | -3.32          |
| 21-Aug-14 | -2.46   | -0.91                             | -1.22                                  | -1.76                                   | 0.00                                  | 0.00                                | -6.35         | 0.1                                      | 0.4                               | 5.4                                    | 0.04                                    | 1.40                                  | 2.69                                | 10.05         | 0.38                                      | 1.89                                   | 2.27           | -1.87                                     | 0.00                                   | -1.87          |
| 22-Aug-14 | -5.01   | -2.17                             | -1.80                                  | -1.01                                   | 0.00                                  | 0.00                                | -9.99         | 0.0                                      | 0.0                               | 5.0                                    | 0.02                                    | 1.77                                  | 3.21                                | 10.04         | 0.53                                      | 1.99                                   | 2.52           | -1.52                                     | 0.00                                   | -1.52          |
| 23-Aug-14 | -5.58   | -2.64                             | -1.76                                  | -1.40                                   | 0.00                                  | 0.00                                | -11.37        | 0.0                                      | 0.0                               | 5.1                                    | 0.00                                    | 1.63                                  | 2.90                                | 9.63          | 0.30                                      | 1.58                                   | 1.88           | -2.84                                     | 0.00                                   | -2.84          |
| 24-Aug-14 | -4.76   | -2.34                             | -1.62                                  | -1.13                                   | 0.00                                  | 0.00                                | -9.85         | 0.0                                      | 0.0                               | 5.1                                    | 0.03                                    | 1.52                                  | 3.24                                | 9.92          | 0.25                                      | 1.58                                   | 1.82           | -3.81                                     | 0.00                                   | -3.81          |
| 25-Aug-14 | -4.04   | -2.02                             | -1.29                                  | -0.91                                   | 0.00                                  | 0.00                                | -8.26         | 0.0                                      | 0.0                               | 5.4                                    | 0.01                                    | 1.47                                  | 3.12                                | 10.00         | 0.45                                      | 1.37                                   | 1.82           | -4.37                                     | 0.00                                   | -4.37          |
| 26-Aug-14 | -5.40   | -3.24                             | -1.73                                  | -0.80                                   | -0.01                                 | 0.00                                | -11.20        | 0.0                                      | 0.0                               | 5.1                                    | 0.05                                    | 1.24                                  | 3.32                                | 9.69          | 0.18                                      | 0.72                                   | 0.91           | -4.61                                     | -0.01                                  | -4.62          |
| 27-Aug-14 | -5.64   | -3.68                             | -2.26                                  | -1.54                                   | -0.33                                 | 0.00                                | -13.45        | 0.0                                      | 0.0                               | 4.7                                    | 0.01                                    | 0.49                                  | 2.26                                | 7.41          | 0.34                                      | 0.86                                   | 1.20           | -3.88                                     | 0.00                                   | -3.88          |
| 28-Aug-14 | -6.59   | -4.08                             | -1.96                                  | -1.29                                   | -0.61                                 | 0.00                                | -14.53        | 0.0                                      | 0.0                               | 4.9                                    | 0.01                                    | 0.04                                  | 1.65                                | 6.65          | 0.39                                      | 1.10                                   | 1.49           | -3.41                                     | 0.00                                   | -3.41          |
| 29-Aug-14 | -5.19   | -2.73                             | -0.74                                  | -0.32                                   | -0.55                                 | 0.00                                | -9.54         | 0.0                                      | 0.0                               | 6.1                                    | 0.33                                    | 0.12                                  | 1.38                                | 7.95          | 0.75                                      | 1.47                                   | 2.22           | -1.94                                     | 0.00                                   | -1.94          |
| 30-Aug-14 | -4.61   | -1.73                             | -0.40                                  | -0.51                                   | -0.25                                 | 0.00                                | -7.50         | 0.0                                      | 0.0                               | 6.4                                    | 0.27                                    | 0.20                                  | 2.02                                | 8.94          | 0.80                                      | 1.87                                   | 2.67           | -0.32                                     | 0.00                                   | -0.32          |
| 31-Aug-14 | -3.23   | -1.29                             | -0.54                                  | -0.73                                   | -0.17                                 | 0.00                                | -316.20       | 0.0                                      | 0.2                               | 6.4                                    | 0.22                                    | 0.30                                  | 2.09                                | 9.27          | 1.70                                      | 2.16                                   | 2.66           | -0.87                                     | 0.00                                   | -0.87          |
| Total     | -112.10   | -69.00                            | -55.03                                 | -59.72                                  | -19.97                                | -6.35                               | -632.40       | 4.84                                     | 5.35                              | 129.37                                 | 3.53                                    | 11.44                                 | 33.26                               | 187.79        | 16.46                                     | 37.33                                  | 52.60          | -87.32                                    | -2.02                                  | -89.34         |

| Date            | 12.4 Import and Export of SR with ER & WR during August 2014 |                                    |               |                                |                                 |               |                            |   |               |                                |   |               |
|-----------------|--|------------------------------------|---------------|--------------------------------|---------------------------------|---------------|----------------------------|---|---------------|--------------------------------|---|---------------|
|                 | Export of ER to SR (ER - SR)                                 |                                    |               | Import of ER from SR (SR - ER) |                                 |               | Export of WR to SR (WR-SR) |   |               | Import of WR from SR (SR - WR) |   |               |
|                 | ER - SR HVDC<br>Gazuwaka                                     | ER - SR HVDC<br>Talchar -<br>Kolar | Total ER - SR | SR - ER HVDC<br>Gazuwaka       | SR - ER HVDC<br>Talchar - Kolar | Total SR - ER | WR - SR HVDC<br>Bhadrawati | WR - SR 765 kV<br>Sholapur -<br>Raichur | Total WR - SR | SR - WR HVDC<br>Bhadrawati     | SR - WR 765 kV<br>Raichur -<br>Sholapur | Total SR - WR |
| 1-Aug-14        | 17.42  | 16.55                              | 33.97         | 0.00                           | 0.00                            | 0.00          | 23.80                      | 5.70                                    | 29.50         | 0.00                           | 2.30                                    | 2.30          |
| 2-Aug-14        | 18.22  | 15.44                              | 33.66         | 0.00                           | 0.00                            | 0.00          | 23.80                      | 7.80                                    | 31.60         | 0.00                           | 3.40                                    | 3.40          |
| 3-Aug-14        | 18.47  | 16.66                              | 35.13         | 0.00                           | 0.00                            | 0.00          | 23.70                      | 6.60                                    | 30.30         | 0.00                           | 4.38                                    | 4.38          |
| 4-Aug-14        | 16.42  | 16.11                              | 32.53         | 0.00                           | 0.00                            | 0.00          | 23.60                      | 2.60                                    | 26.20         | 0.00                           | 2.81                                    | 2.81          |
| 5-Aug-14        | 16.84  | 14.39                              | 31.23         | 0.00                           | 0.00                            | 0.00          | 23.50                      | 6.50                                    | 30.00         | 0.00                           | 3.36                                    | 3.36          |
| 6-Aug-14        | 17.49  | 15.86                              | 33.35         | 0.00                           | 0.00                            | 0.00          | 23.70                      | 2.40                                    | 26.10         | 0.00                           | 2.51                                    | 2.51          |
| 7-Aug-14        | 18.57  | 11.73                              | 30.31         | 0.00                           | 0.00                            | 0.00          | 23.90                      | 0.80                                    | 24.70         | 0.00                           | 1.74                                    | 1.74          |
| 8-Aug-14        | 17.67  | 8.16                               | 25.84         | 0.00                           | 0.00                            | 0.00          | 20.70                      | 3.70                                    | 24.40         | 0.00                           | 1.88                                    | 1.88          |
| 9-Aug-14        | 17.76  | 1.92                               | 19.67         | 0.00                           | 0.00                            | 0.00          | 23.70                      | 4.60                                    | 28.30         | 0.00                           | 2.34                                    | 2.34          |
| 10-Aug-14       | 18.69  | 3.14                               | 21.83         | 0.00                           | 0.00                            | 0.00          | 23.80                      | 1.50                                    | 25.30         | 0.00                           | 2.07                                    | 2.07          |
| 11-Aug-14       | 18.71  | 2.34                               | 21.05         | 0.00                           | 0.00                            | 0.00          | 24.00                      | 1.90                                    | 25.90         | 0.00                           | 2.17                                    | 2.17          |
| 12-Aug-14       | 18.01  | 2.23                               | 20.23         | 0.00                           | 0.00                            | 0.00          | 23.80                      | 4.50                                    | 28.30         | 0.00                           | 2.15                                    | 2.15          |
| 13-Aug-14       | 15.72  | 4.32                               | 20.05         | 0.00                           | 0.00                            | 0.00          | 23.80                      | 4.20                                    | 28.00         | 0.00                           | 1.88                                    | 1.88          |
| 14-Aug-14       | 14.90  | 6.90                               | 21.80         | 0.00                           | 0.00                            | 0.00          | 23.90                      | 0.00                                    | 23.90         | 0.00                           | 1.35                                    | 1.35          |
| 15-Aug-14       | 16.01  | 9.27                               | 25.28         | 0.00                           | 0.00                            | 0.00          | 23.07                      | 0.03                                    | 23.10         | 0.00                           | 1.14                                    | 1.14          |
| 16-Aug-14       | 16.05  | 4.15                               | 20.20         | 0.00                           | 0.00                            | 0.00          | 23.90                      | 0.10                                    | 24.00         | 0.00                           | 0.59                                    | 0.59          |
| 17-Aug-14       | 17.06  | 1.57                               | 18.63         | 0.00                           | 0.00                            | 0.00          | 23.80                      | 4.00                                    | 27.80         | 0.00                           | 0.95                                    | 0.95          |
| 18-Aug-14       | 17.90  | 0.89                               | 18.79         | 0.00                           | 0.00                            | 0.00          | 23.30                      | 6.50                                    | 29.80         | 0.00                           | 1.62                                    | 1.62          |
| 19-Aug-14       | 16.09  | 3.13                               | 19.22         | 0.00                           | 0.00                            | 0.00          | 23.90                      | 3.00                                    | 26.90         | 0.00                           | 1.27                                    | 1.27          |
| 20-Aug-14       | 16.10  | 0.02                               | 16.12         | 0.00                           | 0.00                            | 0.00          | 23.30                      | 5.50                                    | 28.80         | 0.00                           | 1.63                                    | 1.63          |
| 21-Aug-14       | 16.11  | 2.12                               | 18.23         | 0.00                           | 0.00                            | 0.00          | 23.60                      | 3.20                                    | 26.80         | 0.00                           | 0.56                                    | 0.56          |
| 22-Aug-14       | 16.85  | 5.18                               | 22.03         | 0.00                           | 0.00                            | 0.00          | 23.90                      | 3.20                                    | 27.10         | 0.00                           | 0.45                                    | 0.45          |
| 23-Aug-14       | 14.76  | 5.24                               | 20.00         | 0.00                           | 0.00                            | 0.00          | 23.70                      | 2.90                                    | 26.60         | 0.00                           | 0.61                                    | 0.61          |
| 24-Aug-14       | 11.99  | 8.49                               | 20.48         | 0.00                           | 0.00                            | 0.00          | 23.60                      | 2.90                                    | 26.50         | 0.00                           | 1.38                                    | 1.38          |
| 25-Aug-14       | 10.61  | 7.50                               | 18.11         | 0.00                           | 0.00                            | 0.00          | 21.50                      | 5.60                                    | 27.10         | 0.00                           | 0.06                                    | 0.06          |
| 26-Aug-14       | 12.68  | 5.57                               | 18.25         | 0.00                           | 0.00                            | 0.00          | 21.40                      | 7.40                                    | 28.80         | 0.00                           | 1.61                                    | 1.61          |
| 27-Aug-14       | 11.73  | 9.83                               | 21.56         | 0.00                           | 0.00                            | 0.00          | 23.80                      | 4.40                                    | 28.20         | 0.00                           | 0.95                                    | 0.95          |
| 28-Aug-14       | 12.46  | 0.84                               | 13.30         | 0.00                           | 0.00                            | 0.00          | 23.90                      | 3.70                                    | 27.60         | 0.00                           | 1.81                                    | 1.81          |
| 29-Aug-14       | 10.91  | 0.00                               | 10.91         | 0.00                           | 0.00                            | 0.00          | 23.70                      | 7.00                                    | 30.70         | 0.00                           | 0.83                                    | 0.83          |
| 30-Aug-14       | 8.46   | 0.00                               | 8.46          | 0.00                           | 0.00                            | 0.00          | 23.80                      | 3.70                                    | 27.50         | 0.00                           | 0.71                                    | 0.71          |
| 31-Aug-14       | 9.98   | 0.00                               | 9.98          | 0.00                           | 0.00                            | 0.00          | 24.00                      | 2.80                                    | 32.80         | 0.00                           | 0.89                                    | 0.98          |
| Total August'14 | 480.65   | 199.57                             | 680.22        | 0.00                           | 0.00                            | 0.00          | 727.87                     | 118.73                                  | 852.60        | 0.00                           | 51.39                                   | 51.48         |



**13. भूटान , नेपाल एवं बांग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय  
INTERNATIONAL EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH**

**अप्रैल 2014 से अगस्त 2014 April 2014 to August 2014**

अंतरराष्ट्रीय विद्युत विनिमय [भारत से दूसरे देश को आयात (+) / निर्यात (-)]  
Transnational Exchange (Import=(+ve) /Export =(-ve))

| माह MONTH           | भूटान BHUTAN            | नेपाल NEPAL             | बांग्लादेश BANGLADESH   |
|---------------------|-------------------------|-------------------------|-------------------------|
|                     | Energy Exchange (In MU) | Energy Exchange (In MU) | Energy Exchange (In MU) |
| अप्रैल 2014 APR'14  | 78.02                   | -79.85                  | -276.56                 |
| मई 2014 MAY'14      | 271.28                  | -76.50                  | -273.69                 |
| जून 2014 JUN'14     | 586.46                  | -65.04                  | -282.55                 |
| जुलाई 2014 JULY 14  | 988.60                  | -66.50                  | -290.60                 |
| अगस्त 2014 AUG 2014 | 1003.78                 | -65.26                  | -269.45                 |
| कुल Total           | 2928.14                 | -353.15                 | -1392.84                |

**14. एसटीओए (द्विपक्षीय एवं सामूहिक) एवं डी एस एम बिलिंग का ब्योरा – माह अगस्त 2014**  
**STOA (BILATERAL AND COLLECTIVE) & DSM BILLING DETAILS- August 2014**

**द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS**

| अगस्त 2014 August 14                    |   |  | Apr'14- July'14                                 |  |
|---|---|--|---|--|
| क्षे.भा.प्रे.के. का नाम<br>Name of RLDC | लेन – देनों की<br>संख्या No. of<br>Transactions | अनुमोदित ऊर्जा<br>(मि.यु.) Energy<br>Units<br>Approved(MU) | लेन – देनों की<br>संख्या No. of<br>Transactions | अनुमोदित ऊर्जा<br>(मि.यु.) Energy<br>Approved (MU) |
| ऊ.क्षे. NR                              | 536   | 3030   | 2082  | 9928   |
| प.क्षे. WR                              | 327   | 695  | 941   | 2874   |
| द.क्षे. SR                              | 163   | 1061   | 992   | 5279   |
| पू.क्षे. ER                             | 181   | 779  | 825   | 4403   |
| पूर्वोत्तर क्षे. NER                    | 37  | 24   | 125   | 310  |
| <b>कुल TOTAL</b>                        | <b>1244</b>                                     | <b>5589</b>  | <b>3868</b>                                     | <b>17225</b>                                       |

**एसटीओए SHORT TERM OPEN ACCESS**

| माह MONTH           | सामूहिक एसटीओए Collective<br>STOA                           |   | द्विपक्षीय एसटीओए Bilateral<br>STOA                         |   |
|---------------------|---|---|---|---|
|                     | क्रैताओं /<br>विक्रेताओं की सं.<br>NO. of<br>Buyers/Sellers | अनुमोदित ऊर्जा<br>(मि.यु.)<br>Approved<br>Energy (MU) | क्रैताओं /<br>विक्रेताओं की सं.<br>NO. of<br>Buyers/Sellers | अनुमोदित ऊर्जा<br>(मि.यु.)<br>Approved<br>Energy (MU) |
| अप्रैल 2014 APR'14  | 2015  | 2143  | 783   | 3765  |
| मई 2014 MAY'14      | 1962  | 2383  | 930   | 3872  |
| जून 2014 JUN'14     | 2123  | 2643  | 1058  | 4719  |
| जुलाई 2014 JUL 2014 | 2240  | 2351  | 1110  | 5556  |
| अगस्त 2014 AUG 2014 | 2106  | 2522  | 1244  | 5589  |
| <b>कुल TOTAL</b>    | <b>10446</b>  | <b>12042</b>  | <b>3881</b>   | <b>17912</b>  |

मासिक डी एस एम बिलिंग का ब्योरा 2014-15  
 MONTHLY DSM BILLING DETAILS 2014-15

अनंतिम आकड़े  
 provisional data subject to change

करोड़ रु. मे (RS. IN CRORES)

| क्षेत्र REGION           | उत्तरी क्षेत्र<br>NORTH | पश्चिमी क्षेत्र<br>WEST | पूर्वी क्षेत्र<br>EAST | दक्षिणी क्षेत्र<br>SOUTH | पूर्वोत्तर क्षेत्र<br>NORTH EAST | अखिल<br>भारतीय स्तर<br>ALL INDIA |
|--------------------------|-------------------------|-------------------------|------------------------|--------------------------|----------------------------------|----------------------------------|
| 28/07/2014 To 03/08/2014 | 59.58                   | 33.63                   | 13.42                  | 14.06                    | 2.73                             | 123.41                           |
| 04/08/2014 To 10/08/2014 | 38.98                   | 26.81                   | 25.42                  | 8.05                     | 1.86                             | 101.13                           |
| 11/08/2014 To 17/08/2014 | 68.01                   | 50.22                   | 21.65                  | 11.45                    | 4.19                             | 155.52                           |
| 18-08-2014 To 24-08-2014 | 120.63                  | 97.13                   | 21.36                  | 21.39                    | 5.30                             | 265.81                           |
| 25/08/2014 To 31/08/2014 | 89.86                   | 56.18                   | 12.76                  | 12.95                    | 2.91                             | 174.66                           |

15. पावर मार्केट की सूचना ( स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)

POWER MARKET INFORMATION ( Source IEX & PXIL)

पावर एक्सचेंज के माध्यम से विनिमय - माह अगस्त 2014

EXCHANGES THROUGH POWER EXCHANGES - AUGUST 2014

| क्र. स. S. No. | क्षेत्रीय ईकाई Regional Entity                  | क्षेत्र Region    | पावर एक्सचेंज के माध्यम से ( मि.यु. मे)<br>Through Power Exchange in MU |               |
|----------------|---|-------------------|---|---------------|
|                |   |                   | विक्रय Sale   | क्रय Purchase |
| 1              | पंजाब Punjab                                    | उत्तरी क्षेत्र NR | 0.04  | 117.44        |
| 2              | हरियाणा Haryana                                 |                   | 214.22  | 66.28         |
| 3              | राजस्थान Rajasthan                              |                   | 37.17   | 316.73        |
| 4              | दिल्ली Delhi                                    |                   | 105.72  | 103.68        |
| 5              | उत्तर प्रदेश Uttar Pradesh                      |                   | 0.00  | 291.07        |
| 6              | उत्तराखंड Uttarakhand                           |                   | 2.52  | 3.99          |
| 7              | हिमाचल प्रदेश Himachal Pradesh                  |                   | 196.60  | 5.62          |
| 8              | जम्मू और कश्मीर J & K                           |                   | 66.34   | 3.85          |
| 9              | केंद्र शासित चंडीगढ़ UT Chandigarh              |                   | 0.00  | 5.11          |
| 10             | ए डी हाइड्रो AD Hydro                           |                   | 17.47   | 0.00          |
| 11             | करचम वांग्तू KW                                 |                   | 68.26   | 0.00          |
| 12             | श्री सीमेंट Shree Cement                        |                   | 10.28   | 0.00          |
| 13             | नाथपा झाकरी Nathpa Jhakri                       |                   | 26.67   | 0.00          |
| 14             | बैरासूल Baira Siul HEP(BS0)                     |                   | 0.00  | 0.00          |
| 15             | चमेरा -1 Chamera-I HEP(CM1)                     |                   | 0.00  | 0.00          |
| 16             | चमेरा -2 Chamera-II HEP(CM2)                    |                   | 0.00  | 0.00          |
| 17             | धौलीगंगा Dhauliganga HEP(DG0)                   |                   | 0.00  | 0.00          |
| 18             | धौलीगंगा Dulahasti HEP(DU0)                     |                   | 0.00  | 0.00          |
| 19             | सलाल Salal HEP(SL0)                             |                   | 0.00  | 0.00          |
| 20             | सेवा -2 Sewa-II NHPC(SW2)                       |                   | 0.00  | 0.00          |
| 21             | टनकपुर Tanakpur HEP(TP0)                        |                   | 0.00  | 0.00          |
| 22             | उरी Uri HEP(UR0)                                |                   | 0.00  | 0.00          |
| 23             | लांको बुधिल LANCO Budhil                        |                   | 18.90   | 0.00          |
| 24             | चमेरा-3 chamera 3                               |                   | 0.00  | 0.00          |
| 25             | अदानी एचवीडीसी ADANI HVDC(NORGU0)               |                   | 0.00  | 0.00          |
| 26             | मलाना MALANA                                    |                   | 7.24  | 0.00          |
| 27             | उरी-II Uri-II HEP(UR2)                          |                   | 0.00  | 0.00          |
| 28             | मध्य प्रदेश MP                                  | 29.64             | 89.01   |               |
| 29             | महाराष्ट्र Maharashtra                          | 103.07            | 261.95  |               |
| 30             | गुजरात Gujarat                                  | 236.25            | 224.73  |               |
| 31             | छत्तीसगढ़ Chattisgarh                           | 115.59            | 0.52  |               |
| 32             | गोवा Goa  | 0.00              | 0.00  |               |
| 33             | दमन और दीव Daman and Diu                        | 0.00              | 24.45   |               |
| 34             | दादरा और नगर हवेली Dadra & Nagar Haveli         | 0.00              | 0.00  |               |
| 35             | जिंदल JD  | 170.17            | 0.00  |               |
| 36             | लांको अमरकंटक LANCO AMK                         | 0.00              | 0.00  |               |
| 37             | आर्यन कोल ACB India Limited                     | 53.58             | 0.00  |               |
| 38             | जिंदल स्टील एंड पावर Jindal Steel and Power Ltd | 32.91             | 0.00  |               |
| 39             | बालको -2 Balco-II                               | 0.00              | 62.54   |               |
| 40             | स्टरलाइट Sterlite(w3rse0)                       | 180.80            | 0.00  |               |
| 41             | एमको EMCO                                       | 24.75             | 0.00  |               |
| 42             | वन्दना विद्युत VANDANA VIDYUT                   | 9.44              | 0.00  |               |
| 43             | एस्सार पावर ESSAR POWER                         | 15.33             | 0.00  |               |
| 44             | एस्सार स्टील ESSAR STEEL                        | 0.00              | 12.24   |               |
| 45             | के एस के महानदी KSK Mahanadi                    | 9.38              | 0.00  |               |
| 46             | जिंदल स्टेज -II Jindal Stg-II                   | 124.83            | 0.00  |               |
| 47             | कोरबा (प.) Korba(W) Comp. Ltd.                  | 0.00              | 0.00  |               |
| 48             | डी बी पावर D B Power                            | 1.45              | 0.00  |               |
| 49             | धारीवाल Dhariwal                                | 15.23             | 0.00  |               |

15. पावर मार्केट की सूचना (स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)

POWER MARKET INFORMATION (Source IEX & PXIL)

पावर एक्सचेंज के माध्यम से विनिमय - माह अगस्त 2014

EXCHANGES THROUGH POWER EXCHANGES - AUGUST 2014

| क्र. स. S. No. | क्षेत्रीय ईकाई Regional Entity    | क्षेत्र Region         | पावर एक्सचेंज के माध्यम से (मि.यु.मे) Through Power Exchange in MU |               |
|----------------|-----------------------------------|------------------------|--|---------------|
|                |                                   |                        | विक्रय Sale  | क्रय Purchase |
| 50             | आंध्र प्रदेश Andhra Pradesh       | दक्षिणी क्षेत्र SR     | 3.17   | 71.54         |
| 51             | कर्नाटक Karnataka                 |                        | 79.62  | 9.25          |
| 52             | केरल Kerala                       |                        | 1.76   | 89.44         |
| 53             | तमिलनाडु Tamilnadu                |                        | 0.00   | 0.72          |
| 54             | पॉण्डिचेरी Pondicherry            |                        | 0.00   | 0.00          |
| 55             | गोवा Goa                          |                        | 0.00   | 0.00          |
| 56             | लान्को कॉन्डापल्ली LANCO_KONDPLY  |                        | 0.00   | 0.00          |
| 57             | सिमापुरी SIMHAPURI                |                        | 9.27   | 0.00          |
| 58             | मीनाक्षी MINAXI                   |                        | 2.39   | 0.00          |
| 59             | तेलंगाना TLANGANA                 |                        | 9.45   | 185.01        |
| 60             | पश्चिम बंगाल West Bengal          | पूर्वी क्षेत्र ER      | 15.08  | 312.77        |
| 61             | उड़ीशा Odisha                     |                        | 114.03   | 0.05          |
| 62             | बिहार Bihar                       |                        | 0.00   | 186.40        |
| 63             | झारखंड Jharkhand                  |                        | 0.00   | 0.00          |
| 64             | सिक्किम Sikkim                    |                        | 57.24  | 0.00          |
| 65             | दामोदर घाटी परियोजना DVC          |                        | 16.33  | 0.00          |
| 66             | स्टरलाइट STERLITE                 |                        | 0.00   | 0.00          |
| 67             | मैथन पावर लिमिटेड Maithon P. Ltd  |                        | 28.42  | 0.00          |
| 68             | आधुनिक पा. लिमिटेड Adhunik P.Ltd  |                        | 1.24   | 0.00          |
| 69             | चुजाचेन Chuzachen HEP             |                        | 44.91  | 0.00          |
| 70             | रंगित Rangit HEP                  |                        | 9.41   | 0.00          |
| 71             | तीस्ता Teesta HEP                 |                        | 48.51  | 0.00          |
| 72             | जीएमआर कमलंगा GMR Kamalanga       |                        | 16.11  | 0.00          |
| 73             | जिंदल आई पी टी एल JIPTL           |                        | 63.85  | 0.00          |
| 74             | अरुणाचल प्रदेश Arunachal Pradesh  | पूर्वोत्तर क्षेत्र NER | 10.82  | 1.01          |
| 75             | असम Assam                         |                        | 9.55   | 66.78         |
| 76             | मणिपुर Manipur                    |                        | 6.91   | 0.19          |
| 77             | मेघालय Meghalaya                  |                        | 17.69  | 9.03          |
| 78             | मिज़ोरम Mizoram                   |                        | 8.34   | 0.00          |
| 79             | नागालैंड Nagaland                 |                        | 0.83   | 0.00          |
| 80             | त्रिपुरा Tripura                  |                        | 29.80  | 0.70          |
| 81             | अगरतला जीटीपीपी Agartala GTPP AG0 |                        | 0.00   | 0.00          |
| 82             | कोपिली KOPIII_KP1                 |                        | 0.00   | 0.00          |
| 83             | असम जीबीपीपी Assam GBPP_KT0       |                        | 0.00   | 0.00          |
| 84             | लोकटक LOKTAK                      |                        | 9.08   | 0.00          |
| 85             | रंगानदी Ranganadi                 |                        | 0.00   | 0.00          |
| 86             | दोयांग Doyang                     |                        | 0.00   | 0.00          |
| 87             | पलाताना Palatana                  |                        | 14.38  | 0.00          |
| कुल Total      |                                   |                        | 2522.08  | 2522.08       |

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-AUGUST 2014****RE Source & Unit wise break up (August 14)**

| Sr.No | Source Wise              | Accreditation |      | Registration  |      |
|-------|--------------------------|---------------|------|---------------|------|
|       |                          | Capacity (MW) | Unit | Capacity (MW) | Unit |
| 1     | Wind                     | 14.4          | 1    | 12            | 1    |
| 2     | Urban or Municipal Waste | 0             | 0    | 0             | 0    |
| 3     | Solar Thermal            | 0             | 0    | 0             | 0    |
| 4     | Solar PV                 | 1.5           | 1    | 18            | 4    |
| 5     | Small Hydro              | 0             | 0    | 0             | 0    |
| 6     | Others                   | 0             | 0    | 0             | 0    |
| 7     | Geothermal               | 0             | 0    | 0             | 0    |
| 8     | Biomass                  | 0             | 0    | 0             | 0    |
| 9     | Bio-fuel cogeneration    | 0             | 0    | 0             | 0    |
|       | <b>Total</b>             | 15.9          | 2    | 30            | 5    |

**RECs Issued (August 14)**

| Sr.No. | Non Solar | Solar | Total  |
|--------|-----------|-------|--------|
| 1      | 559850    | 53931 | 613781 |

**Redemption of REC (August 14)**

| Sr.No. | Non Solar | Solar | Total |
|--------|-----------|-------|-------|
| 1      | 50681     | 1163  | 51844 |

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-AUGUST 2014****RE Source & Unit wise break up (Apr,14-Aug,14)**

| Sr.No | Source Wise              | Accreditation |           | Registration  |            |
|-------|--------------------------|---------------|-----------|---------------|------------|
|       |                          | Capacity (MW) | Unit      | Capacity (MW) | Unit       |
| 1     | Wind                     | 114           | 8         | 97.56         | 17         |
| 2     | Urban or Municipal Waste | 0             | 0         | 0             | 0          |
| 3     | Solar Thermal            | 0             | 0         | 0             | 0          |
| 4     | Solar PV                 | 79.16         | 44        | 145.8         | 68         |
| 5     | Small Hydro              | 41.98         | 4         | 85.48         | 8          |
| 6     | Others                   | 0             | 0         | 0             | 0          |
| 7     | Geothermal               | 0             | 0         | 0             | 0          |
| 8     | Biomass                  | 27.8          | 1         | 63.7          | 6          |
| 9     | Bio-fuel cogeneration    | 31.63         | 5         | 6.98          | 1          |
|       | <b>Total</b>             | <b>294.57</b> | <b>62</b> | <b>399.52</b> | <b>100</b> |

**RECs Issued (Apr,14-Aug,14)**

| Sr.No. | Non Solar | Solar  | Total   |
|--------|-----------|--------|---------|
| 1      | 3849148   | 213772 | 4062920 |

**Redemption of REC (Apr,14 - August 14)**

| Sr.No. | Non Solar | Solar | Total  |
|--------|-----------|-------|--------|
| 1      | 330553    | 12559 | 343112 |

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-AUGUST 2014****RE Source & Unit wise break up Since Inception to August 14**

| Sr.No | Source Wise              | Accreditation  |             | Registration   |             |
|-------|--------------------------|----------------|-------------|----------------|-------------|
|       |                          | Capacity (MW)  | Unit        | Capacity (MW)  | Unit        |
| 1     | Wind                     | 2444.98        | 615         | 2235.74        | 582         |
| 2     | Urban or Municipal Waste | 8              | 1           | 0              | 0           |
| 3     | Solar Thermal            | 3              | 1           | 0              | 0           |
| 4     | Solar PV                 | 532.18         | 246         | 514.68         | 232         |
| 5     | Small Hydro              | 342.49         | 37          | 288.49         | 31          |
| 6     | Others                   | 1.67           | 1           | 1.67           | 1           |
| 7     | Geothermal               | 0              | 0           | 0              | 0           |
| 8     | Biomass                  | 695.16         | 72          | 705.16         | 73          |
| 9     | Bio-fuel cogeneration    | 815.05         | 88          | 745.05         | 82          |
|       | <b>Total</b>             | <b>4842.53</b> | <b>1061</b> | <b>4490.79</b> | <b>1001</b> |

**RECs Issued since Inception to August 14**

| Sr.No. | Non Solar | Solar  | Total    |
|--------|-----------|--------|----------|
| 1      | 15638300  | 434803 | 16073103 |

**Redemption of REC since Inception to August 14**

| Sr.No. | Non Solar | Solar | Total   |
|--------|-----------|-------|---------|
| 1      | 6604066   | 93252 | 6697318 |

**REC Closing balance as on 31.08.2014**

| Sr.No. | Non Solar | Solar  | Total   |
|--------|-----------|--------|---------|
| 1      | 9034234   | 341551 | 9375785 |

| Major Grid Incidences during August 2014 |            |          |        |  |                |  |   |            |          | Annexure-I                         |  |
|--|------------|----------|--------|--|----------------|--|---|------------|----------|------------------------------------|--|
| A  | B          |          | C      | D  | E              | F  | G   | H          |          | I                                  |  |
| S.NO.                                    | Outage     |          | Region | Name of Element  | Owner / Agency | Event  | Generation/Load Loss                                  | Revival    |          | Category as per CEA Grid Standards |  |
|  | Date       | Time     |        |  |                |  |   | Date       | Time     |                                    |  |
| 1  | 07.08.2014 | 2118 hrs | ER     | 1).132kV Purnea-Saharsa D/C<br>2).132kV Purnea-Purnea(PG) T/C<br>3). 132kV Purnea-Katihar<br>4).132kV Purnea-Forbisgunj<br>5). 132kV Purnea-Naugachia<br>6). 132kV Purnea-Khagaria   | BSPHCL         | Due to fault in 132kV Purnea-Forbesganj line all 132kV lines emanating from Purnea (BSPHCL) S/S got tripped and led to total power failure at 132kV Purnea(BSPHCL) S/S.  | Load loss=140MW                                       | 07.08.2014 | 2126 hrs | GD-I                               |  |
| 2  | 07.08.2014 | 2248 hrs | ER     | 1).132kV Purnea-Saharsa D/C<br>2).132kV Purnea-Purnea(PG) T/C<br>3). 132kV Purnea-Katihar<br>4).132kV Purnea-Forbisgunj<br>5). 132kV Purnea-Naugachia<br>6). 132kV Purnea-Khagaria   | BSPHCL         | Due to non clearance of fault at Purnea(BSPHCL)end,all lines emanating from Purnea(BSPHCL) tripped causing total power failure at Purnea(BSPHCL) S/S.  | Load loss=120MW                                       | 07.08.2014 | 2346 hrs | GD-I                               |  |
| 3  | 11.08.2014 | 1052 hrs | ER     | 1).220kV Maithon-Kalyaneshwari D/C<br>2).220kV Maithon-Dhanbad D/C<br>3).315MVA 400/220kV ICT-I &II at Maithon   | DVC/PG         | Due to Failure of R-Phase CVT of Bus-II,given elements in Column D tripped   | Load Loss=Nil   | 11.08.2014 | 1159 hrs | GI-I                               |  |
| 4  | 12.08.2014 | 0406 hrs | NER    | 1). Imphal-Imphal(PG) D/C<br>2). Imphal(PG)-Loktak D/C   | PG/NHPC        | 132 KV Imphal S/S became dead, due to tripping of Imphal-Imphal(PG) line in Zone II protection (fault reported in 33 KV system).   | Load Loss=60MW<br>Gen Loss=20MW( back down by Loktak) | 12.08.2014 | 0503 Hrs | GD-I                               |  |
| 5  | 13.08.2014 | 1608 hrs | ER     | 1).220kV Maithon-kalyaneshwari D/C<br>2).220kV Maithon-Dhanbad D/C<br>3).315MVA 400/220kV ICT-I &II at Maithon   | DVC/PG         | While taking Bus II in service at Maithon S/s (PG), due to suspected Busbar mal-operation given elements in coulum D tripped.  | Load Loss=Nil   | 13.08.2014 | 1652 hrs | GI-I                               |  |
| 6  | 14.08.2014 | 1211 hrs | NER    | 1). 132kV Lakwal(LTPS)-Mariani line<br>2). 100MVA 220/132kV ICT-I and II at Mariani  | AEGCL          | While charging 132kV Lakwa(LTPS)-Mariani line (which was tripped on DP, R_B fault at 1150 hrs ), elements connected to 220KV Mariani (ASEB) S/S tripped.   | Load Loss=80MW  | 14.08.2014 | 1220hrs  | GD-I                               |  |
| 7  | 15.08.2014 | 1406 hrs | ER     | 1).220kV Biharsariff-Tenughat line<br>2). 220kV Biharsariff-Begusarai D/C<br>3). 3*315MVA ICTs at Biharshariff   | BSEB           | Due to overflowing of adjacent river Panchyanan within the switchyard and control room ,given element were hand tripped.   | Load loss =200MW                                      | 16.08.2014 | 1000hrs  | GD-I                               |  |
| 8  | 16.08.2014 | 1929 hrs | ER     | 1). 220kV Theruvali-U.Kolab Ckt<br>2). 220kV Theruvali-Jayanagar D/C<br>3).220kV Theruvali-Bhanjnagar D/C<br>4). 220kV Theruvali-Indravati D/C<br>5).220kV Theruvali-Narendrapur D/C | OPTCL          | Due to failure of Y-Phase post insulator used for bypassing of Bus-I main Breaker of 220kV Theruvali-U.Kolab line and Y-Phase jumper along with breaker side post insulator fell on ground at Theruvali end causing Bus fault resulting in elements tripping given in coulum D . | Load Loss=Nil   | 16.08.2014 | 2211 hrs | GI-I                               |  |
| 9  | 20.08.2014 | 1110 hrs | NR     | 1).400/220kV ICT-II at Agra(UPPCL)<br>2) 220kV Agra-Samsabad line<br>3).220kV Agra-Agra D/C<br>4). 220kV Agra-Gokul Line<br>5). 220132kV ICT-II                                      | UPPCL          | Due to tripping of ICT-II at Agra(UPPCL) given elements tripped.   | Load Loss=437MW                                       | 20.08.2014 | 1158 hrs | GD-I                               |  |



| Major Grid Incidences during August 2014 |            |          |        |  |                |   |                                    |            |          | Annexure-I                         |  |
|--|------------|----------|--------|--|----------------|---|------------------------------------|------------|----------|------------------------------------|--|
| A  | B          |          | C      | D  | E              | F   | G                                  | H          |          | I                                  |  |
| S.NO.                                    | Outage     |          | Region | Name of Element  | Owner / Agency | Event   | Generation/Load Loss               | Revival    |          | Category as per CEA Grid Standards |  |
|  | Date       | Time     |        |  |                |   |                                    | Date       | Time     |                                    |  |
| 10                                       | 20.08.2014 | 1130 HRS | NER    | 1). 132kV Badarpur-Panchgram S/C<br>2). 132kV Badarpur-Silchar D/C<br>3). 132kV Badarpur-Jiribam S/C<br>4). 132kV Badarpur-Kolasib S/C<br>5). 132kV Badapur-Kumarghat S/C<br>6).132kV Badapur-Khliehriat S/C   | PG             | Due to BusBar Operation at Badarpur, all the emanating lines from 132kV Badarpur S/S tripped.   | Load Loss=Nil                      | 20.08.2014 | 1143hrs  | GI-I                               |  |
| 11                                       | 20.08.2014 | 1228hrs  | ER     | 1). 220kV Biharsariff-Tenughat S/C<br>2). 220kV Biharsariff-Begusarai D/C<br>3). 220kV Biharsariff-Bodhgaya D/C<br>4). 315MVA ICT-I,II and III at  | BSEB/PG        | Due to Y-Phase to Earth fault in 220kV Biharsariff-Tenughat Ckt ,all elements given in coulumn D tripped.   | Load Loss=150MW                    | 20.08.2014 | 1348hrs  | GD-I                               |  |
| 12                                       | 22.08.2014 | 1036hrs  | NR     | 1). 220kV Panchkula-Rewali D/C<br>2). 220kV Panchkula-Baddi S/C<br>3). 220kV Panchkula-Kunihar S/C<br>4). 400/220kV ICT I & II at Panchkula  | HVPNL/PG       | Due to failure of jumper in 220kV Panchkula-Rewali lines,elements given in Coulum D tripped.  | Load loss=120MW                    | 22.08.2014 | 1140hrs  | GD-I                               |  |
| 13                                       | 26.08.2014 | 2308 hrs | ER     | 1).220 kV Jeypore-Jaynagar D/C<br>2).220 kV Jaynagar-Balimela- Ckt. I,II,III<br>3). 220 kV Jaynagar-U.Kolab D/C<br>4). 220 kV Theruvalli-Jaynagar Ckt-I,II<br>5). 220 kV Theruvalli-Indravati Ckt-I,II<br>6).Unit I,II,III and IV(150MW each) at Indravati,<br>7).Unit I ,II,III and IV(80MW each) at U.Kolab and Generation at Balimela | OPTCL          | Due to R-Phase to Ground fault in 400kV Jeypore-Indravati line,all the elements given coulum D tripped.   | Gen Loss=1100MW<br>Load Loss=800MW | 27.08.2014 | 0142 hrs | GD-I                               |  |
| 14                                       | 27.08.2014 | 2322 hrs | NR     | 1). 220kV Samaypur-Charkhi Dadri S/C<br>2). 220kV Samaypur-Ballabgarh -II<br>3). 220kV Samaypur-Faridabad-II<br>4).2220kV Samaypur-Pali-II<br>5). 220kV Samaypur -Badshahpur-I<br>6). 220kV Samaypur-Palwal-I<br>7)400/220kV, 315MVA ICT-III and IV at Samaypur  | BBMB/PG        | Y-phase CT of 220kV Samaypur-Charkhi Dadri ckt bursted. It resulted into operation of Bus Bar Protection for Bus-1. All the 220kV lines & two 315MVA ICT connected at Bus-1 tripped | Load Loss=350MW                    | 28.08.2014 | 0115 Hrs | GD-I                               |  |
| 15                                       | 28.08.2014 | 0135 hrs | WR     | 1)220 KV Mehgaon-Auraiya<br>2)220 KV Malanpur-Auraiya.<br>3)220 KV Malanpur- Gwalior (PGCIL)-I :<br>4) 220 KV Malanpur- Gwalior (PGCIL)-II :   | MPPTCL         | Due to fault at 220 kV Gwalior(PG) end, elements given in column E tripped.   | Load Loss=350MW                    | 28.08.2014 | 0343 Hrs | GD-I                               |  |
| 16                                       | 28.08.2014 | 1113 hrs | ER     | 1). 400KV FSTPP-MALDA D/C<br>2). 400KV FSTPP-KHSTPP-Q/C<br>3). 400KV FSTPP-SAGARDIGHI-S/C<br>4). 400KV FSTPP-BERHAMPUR-S/C<br>5). 400KV FSTPP-DURGAPUR-D/C<br>6). 400KV JEERAT-BEHRAMPUR<br>7). 315 MVA, 400/220 KV ICT-III at MALDA<br>8)132KV MALDA-MALDA-II(tripped from Malda (WBSETCL) only)<br>9). Farakka Generation              | NTPC/PG        | Due to delyed fault in 400kV Farakka-Malda-II line, all the feeders at farakka alongwith generators tripped .   | Gen Loss=1400MW<br>Load Loss=390MW | 28.08.2014 | 1852 Hrs | GD-I                               |  |

| Major Grid Incidences during August 2014 |            |          |        |  |                |  |                      |            |          | Annexure-I                         |  |
|--|------------|----------|--------|--|----------------|--|----------------------|------------|----------|------------------------------------|--|
| A  | B          |          | C      | D  | E              | F  | G                    | H          |          | I                                  |  |
| S.NO.                                    | Outage     |          | Region | Name of Element  | Owner / Agency | Event  | Generation/Load Loss | Revival    |          | Category as per CEA Grid Standards |  |
|  | Date       | Time     |        |  |                |  |                      | Date       | Time     |                                    |  |
| 17                                       | 28.08.2014 | 1334 hrs | NR     | 1). 400kV Agra-Agra(PG) D/C<br>2). 400kV Agra-Unnao Line<br>3). 400kV Agra-Muradnagar Line<br>4). 220kV Agra-Gokul Line<br>5). 220kV Agra-Hathras Line<br>6). 220kV Agra-Samsabad Line<br>7). 220kV Agra-Sikandara D/C<br>8). 220kV Sikandara-Auraiya D/C<br>9) 400/220kV 315MVA ICT-I and II at Agra<br>10). 400/220kV 500MVA ICT at Agra | UPPTCL/PG      | B-phase Transfer Isolator of 400kV Agra(UP)-Agra(PG) ckt-2 broke and fell on Bus and earthed and created Bus fault. Bus Bar protection at 400kV Agra(UP) end was out of service at that time. It resulted into tripping of all 400kV lines from remote end in zone-2. 400/220kV 315MVA ICT-2 also tripped at Agra(UP) end on direction over current/ earth fault protection while remaining two ICTs were manually opened.   | Load Loss=754MW      | 28.08.2014 | 1615 hrs | GD-I                               |  |
| 18                                       | 28.08.2014 | 1740 hrs | WR     | All 220/132 kv ICTs at Bina(MP)  | MPPTCL         | All ICTs at 220 kv Bina(MP) s/s tripped in the event.  | Load Loss=234MW      | 28.08.2014 |          | GD-I                               |  |
| 19                                       | 26.06.14   | 1503 hrs | ER     | 1). 220kV Biharshariff-Fatuah D/C<br>2). 400/220kV 3X315MVA ICT at Biharshariff  | BSPHCL/PG      | While closing 220kV Tenughat-Biharshariff (BSEB) line through transfer bus at Biharshariff (BSEB) end which tripped earlier. The line was reportedly being closed through transfer bus isolator with circuit breaker in closed condition causing charging current flows through the isolator. However the said fault did not clear properly from Biharshariff (BSEB) end due to which all the three 400/220kV ICTs at Biharshariff (PG) tripped on back up O/C protection from HV side and LV side also. | Load Loss=300MW      | 26.06.14   | 2121 hrs | GD-I                               |  |

**18. NEW ELEMENTS COMMISSIONED in AUGUST-2014**

**COMMISSIONING OF NEW GENERATING UNITS**

| REGION | SL. NO. | CONSTITUENT | UNIT NAME    | UNIT NO | CAPACITY (MW) | DATE       | TIME  |
|--------|---------|-------------|--------------|---------|---------------|------------|-------|
| WR     | 1       | KSK MHANADI | KSK MAHANADI | IV      | 600           | 08.08.2014 | 08:13 |

**COMMISSIONING OF NEW TRANSMISSION LINES**

| REGION | SL. NO. | CONSTITUENT | LINE NAME            | CKT NO | KV  | DATE     | TIME  |
|--------|---------|-------------|----------------------|--------|-----|----------|-------|
| NR     | 1       | NTPC        | DADRI LONI           | II     | 400 | 26.08.14 | 17:40 |
|        | 2       | PSPTCL      | MAKHU-MUKTSAR        | II     | 400 | 12.08.14 | 18:04 |
|        | 3       | PSPTCL      | MAKHU-MUKTSAR        | I      | 400 | 12.08.14 | 16:45 |
| ER     | 4       | POWERGRID   | DEHRI KUDRA (LILO)   | I      | 132 | 23.08.14 | 22:30 |
|        | 5       | POWERGRID   | KUDRA PUSAULI (LILO) | I      | 132 | 23.08.14 | 22:30 |

**COMMISSIONING OF NEW ICTS**

| REGION | SL. NO. | CONSTITUENT | STATION NAME   | KV RATIO | CAPACITY (MVA) | DATE       | TIME  |
|--------|---------|-------------|----------------|----------|----------------|------------|-------|
| NR     | 1       | DTL         | LONI (ICT-I)   | 400/220  | 315            | 01.08.2014 | 22:35 |
| NR     | 2       | DTL         | LONI (ICT-III) | 400/220  | 315            | 01.08.2014 | 21:35 |
| NER    | 3       | POWERGRID   | AZARA          | 400/220  | 315            | 05.08.2014 | 21:37 |
| ER     | 4       | POWERGRID   | ANGUL          | 765/400  | 315            | 11.08.2014 | 13:18 |
| SR     | 5       | TNEB        | KAYTHAR        | 400/110  | 200            | 16.08.2014 | 17:41 |

**COMMISSIONING OF BUS REACTORS**

| REGION | SL.NO. | CONSTITUENT | STATION NAME | KV  | CAPACITY (MVAR) | DATE       | TIME  |
|--------|--------|-------------|--------------|-----|-----------------|------------|-------|
| WR     | 1      | POWERGRID   | AURANGABAD   | 765 | 3x80            | 05.08.2014 | 15:51 |
| SR     | 2      | TPCIL       | TPCIL        | 400 | 125             | 09.08.2014 | 17:50 |
| ER     | 3      | POWERGRID   | ANGUL        | 765 | 3x110           | 11.08.2014 | 20:01 |

**COMMISSIONING OF LINE REACTORS**

| REGION | SL. NO. | CONSTITUENT | STATION NAME | LINE NAME      | KV  | CAPACITY (MVAR) | DATE       | TIME  |
|--------|---------|-------------|--------------|----------------|-----|-----------------|------------|-------|
| WR     | 1       | POWERGRID   | DURG         | DURG WARDHA-I  | 765 | 3 x 80 MVAR     | 12.08.2014 | 20:40 |
| WR     | 1       | POWERGRID   | DURG         | DURG WARDHA-II | 765 | 3 x 80 MVAR     | 27.08.2014 | 14:10 |

| क्र.स.<br>Sl.<br>No. | क्षेत्र<br>REGION | उपकेंद्र SUBSTATION          | VOLTAGE <<br>V(lower)*<br>(V=122,380,728<br>kV) | V(lower) <<br>VOLTAGE <<br>V(upper)* | VOLTAGE ><br>V(upper)*<br>(V=145, 420,<br>800 kV) | उच्चतम<br>(कि.वो.)<br>Maximum<br>(kV) | निम्नतम<br>(कि.वो.)<br>Minimum<br>(kV) | औसत<br>(कि.वो.)<br>Average<br>(kV) |
|----------------------|-------------------|------------------------------|---|--------------------------------------|---|---------------------------------------|--|------------------------------------|
| 1                    | पूर्वी<br>ER      | फरक्का FARAKKA               | 0.0%  | 93.8%                                | 6.2%  | 424.0                                 | 396.2                                  | 415.0                              |
| 2                    |                   | कहलगाँव KAHALGAON            | 0.0%  | 0.0%                                 | 100.0%  | 420.8                                 | 420.8                                  | 420.8                              |
| 3                    |                   | तालचर TALCHER                | 0.0%  | 100.0%                               | 0.0%  | 416.9                                 | 399.8                                  | 405.8                              |
| 4                    |                   | पूणिया PURNEA                | 0.0%  | 99.8%                                | 0.2%  | 423.4                                 | 393.0                                  | 409.4                              |
| 5                    |                   | मुजफ्फरपुर MUZAFFARPUR       | 0.0%  | 100.0%                               | 0.0%  | 417.7                                 | 390.4                                  | 404.0                              |
| 6                    |                   | जमशेदपुर JAMSHEDPUR          | 0.0%  | 30.7%                                | 69.3%   | 429.8                                 | 412.0                                  | 421.0                              |
| 7                    |                   | रेंगाली RENGALI              | 0.0%  | 100.0%                               | 0.0%  | 412.6                                 | 395.1                                  | 401.6                              |
| 8                    |                   | जेयपुर JEYPORE               | 0.0%  | 92.1%                                | 7.8%  | 426.8                                 | 293.6                                  | 411.0                              |
| 1                    | उत्तरी<br>NR      | नल्लागढ़ NALLAGARH           | 0.0%  | 99.6%                                | 0.4%  | 426.3                                 | 319.4                                  | 408.3                              |
| 2                    |                   | भिवाड़ी BHIWADI              | 0.0%  | 92.2%                                | 7.8%  | 428.4                                 | 392.0                                  | 412.6                              |
| 3                    |                   | बल्लभगढ़ BALLABGARH          | 0.0%  | 96.0%                                | 4.0%  | 426.3                                 | 395.1                                  | 410.4                              |
| 4                    |                   | इलाहाबाद ALLAHABAD           | 0.0%  | 83.6%                                | 16.4%   | 428.4                                 | 400.5                                  | 415.2                              |
| 5                    |                   | हिसार HISSAR                 | 0.0%  | 100.0%                               | 0.0%  | 413.9                                 | 386.9                                  | 400.7                              |
| 6                    |                   | बवाना BAWANA                 | 0.0%  | 99.9%                                | 0.1%  | 421.4                                 | 394.9                                  | 407.8                              |
| 7                    |                   | कानपुर KANPUR                | 0.0%  | 99.1%                                | 0.9%  | 423.3                                 | 395.6                                  | 409.3                              |
| 8                    |                   | बस्सी BASSI                  | 0.0%  | 60.4%                                | 39.6%   | 435.0                                 | 388.5                                  | 417.2                              |
| 9                    |                   | लखनऊ LUCKNOW 765 kV          | 0.1%  | 99.9%                                | 0.0%  | 789.4                                 | 721.6                                  | 757.4                              |
| 10                   |                   | मोगा MOGA                    | 0.0%  | 100.0%                               | 0.0%  | 415.7                                 | 393.9                                  | 406.3                              |
| 11                   |                   | रतनगढ़ RATANGARH             | 0.0%  | 100.0%                               | 0.0%  | 421.4                                 | 385.7                                  | 407.6                              |
| 1                    | पश्चिमी<br>WR     | आसोज ASOJ                    | 0.0%  | 96.2%                                | 3.8%  | 423.8                                 | 401.5                                  | 412.7                              |
| 2                    |                   | इटारसी ITARSI                | 0.0%  | 99.2%                                | 0.8%  | 479.8                                 | 398.1                                  | 408.5                              |
| 3                    |                   | जैतपुर JETPUR                | 0.0%  | 99.1%                                | 0.9%  | 422.6                                 | 398.6                                  | 412.3                              |
| 4                    |                   | कासोर KASOR                  | 0.0%  | 97.4%                                | 2.6%  | 422.8                                 | 403.8                                  | 413.6                              |
| 5                    |                   | कोल्हापुर KOLHAPUR           | 0.0%  | 82.9%                                | 17.1%   | 437.5                                 | 406.1                                  | 419.2                              |
| 6                    |                   | बीना BINA                    | 0.0%  | 96.4%                                | 3.6%  | 425.5                                 | 394.2                                  | 410.5                              |
| 7                    |                   | ग्वालियर GWALIOR             | 0.0%  | 100.0%                               | 0.0%  | 407.6                                 | 396.6                                  | 405.5                              |
| 8                    |                   | रायपुर RAIPUR                | 0.0%  | 39.8%                                | 60.2%   | 429.7                                 | 414.1                                  | 421.8                              |
| 9                    |                   | जबलपुर JABALPUR              | 0.0%  | 98.3%                                | 1.7%  | 424.4                                 | 398.0                                  | 412.1                              |
| 10                   |                   | धुले DHULE                   | 0.0%  | 48.5%                                | 51.5%   | 437.1                                 | 395.7                                  | 419.3                              |
| 1                    | दक्षिणी<br>SR     | श्रीपेरुपुडुर SRIPERUMPUDUR  | 0.0%  | 69.1%                                | 30.9%   | 427.9                                 | 404.6                                  | 416.8                              |
| 2                    |                   | नेवेली NEVELI                | 0.0%  | 41.0%                                | 59.0%   | 427.0                                 | 401.0                                  | 417.1                              |
| 3                    |                   | सेलम SALEM                   | 0.0%  | 100.0%                               | 0.0%  | 415.3                                 | 386.0                                  | 402.5                              |
| 4                    |                   | बंगलूरु BANGALORE            | 0.3%  | 99.7%                                | 0.0%  | 419.1                                 | 373.4                                  | 399.9                              |
| 5                    |                   | होसूर HOSUR                  | 0.0%  | 100.0%                               | 0.0%  | 415.0                                 | 384.5                                  | 399.7                              |
| 6                    |                   | रामागुंडम RAMAGUNDAM         | 0.0%  | 100.0%                               | 0.0%  | 420.3                                 | 400.6                                  | 412.2                              |
| 7                    |                   | विजयवाड़ा VIJAYAWADA         | 0.0%  | 24.6%                                | 75.4%   | 432.6                                 | 412.0                                  | 422.6                              |
| 8                    |                   | तिरुवनंतपुरम TIRIVANDRUM     | 0.1%  | 99.2%                                | 0.7%  | 420.5                                 | 373.1                                  | 404.4                              |
| 9                    |                   | हैदराबाद HYDERABAD           | 0.0%  | 88.5%                                | 11.5%   | 427.4                                 | 399.8                                  | 413.8                              |
| 1                    | पूर्वोत्तर<br>NER | मिसा MISA                    | 0.0%  | 100.0%                               | 0.0%  | 417.0                                 | 395.0                                  | 406.6                              |
| 2                    |                   | बलिपारा BALIPARA             | 0.0%  | 98.7%                                | 1.3%  | 424.0                                 | 380.0                                  | 407.5                              |
| 3                    |                   | बोंगईगाँव BONGAIGAON         | 0.0%  | 100.0%                               | 0.0%  | 406.0                                 | 389.0                                  | 394.4                              |
| 4                    |                   | हाफ्लोंग HAFLONG 132 kV      | 0.0%  | 100.0%                               | 0.0%  | 136.0                                 | 127.0                                  | 132.4                              |
| 5                    |                   | आइजोल AIZWAL 132 kV          | 0.5%  | 99.5%                                | 0.0%  | 136.0                                 | 124.0                                  | 129.1                              |
| 6                    |                   | कुमारघाट KUMARGHAT 132 kV    | 0.0%  | 100.0%                               | 0.0%  | 134.0                                 | 125.0                                  | 130.3                              |
| 7                    |                   | इम्फाल IMPHAL 132 kV         | 72.9%   | 27.1%                                | 0.0%  | 130.0                                 | 122.2                                  | 118.2                              |
| 8                    |                   | ख्लेरियट Khlieriat_PG 132 kV | 0.0%  | 100.0%                               | 0.0%  | 136.0                                 | 130.0                                  | 132.5                              |
| month.               |                   |                              |   |                                      |   |                                       |  |                                    |



## **POWER SYSTEM OPERATION CORPORATION LIMITED**

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

NATIONAL LOAD DESPATCH CENTRE – राष्ट्रीय भार प्रेषण केन्द्र

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