

# 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: 22.02.2016

सेवा में,

वितरण सूची के अनुसार

विषय:- निष्पादन रिपोर्ट - जनवरी 2016

महोदय,

आई०ई०जी०सी०-2010 के प्रावधान के अनुसार, - जनवरी 2016 माह की अखिल भारतीय प्रणाली की निष्पादन रिपोर्ट संलग्न है।

धन्यवाद

भवदीय

  
28.02.16

(एन. नल्लारसन)

उप 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, उ. 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(पूर्व), 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, बंगलूरु - 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, उ. पू. क्षे. वि. स., मेघालय राज्य आवासीय वित्त सहकारी समिति लिमिटेड भवन, नॉग्रिम हिल्स, शिलोंग - 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
- 9 महाप्रबंधक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र, अंधेरी(पूर्व), मुंबई - 400093  
General Manager, WRLDC, F-3, MIDC Area, Andheri (East), Mumbai-400093
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Executive Director, NRLDC, 18/A, SJSS Marg, Katwaria Sarai, New Delhi-110016
- 11 कार्यपालक निदेशक, द. क्षे. भा. प्रे. के, 29, रेस कोर्स क्रॉस रोड, बंगलूरु - 560009  
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009
- 12 महाप्रबंधक, पू. क्षे. भा. प्रे. के., डोंगतिह, लोअर नॉग्रह, लापलंग, शिलोंग - 793006  
General Manager, NERLDC, Dongtiah, Lower Nongrah, Laplang, Shillong-793006

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

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



**माह जनवरी 2016 के लिए प्रचालन निष्पादन रिपोर्ट**  
**OPERATIONAL PERFORMANCE REPORT FOR THE**  
**MONTH OF JANUARY 2016**



# 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



जनवरी 2016

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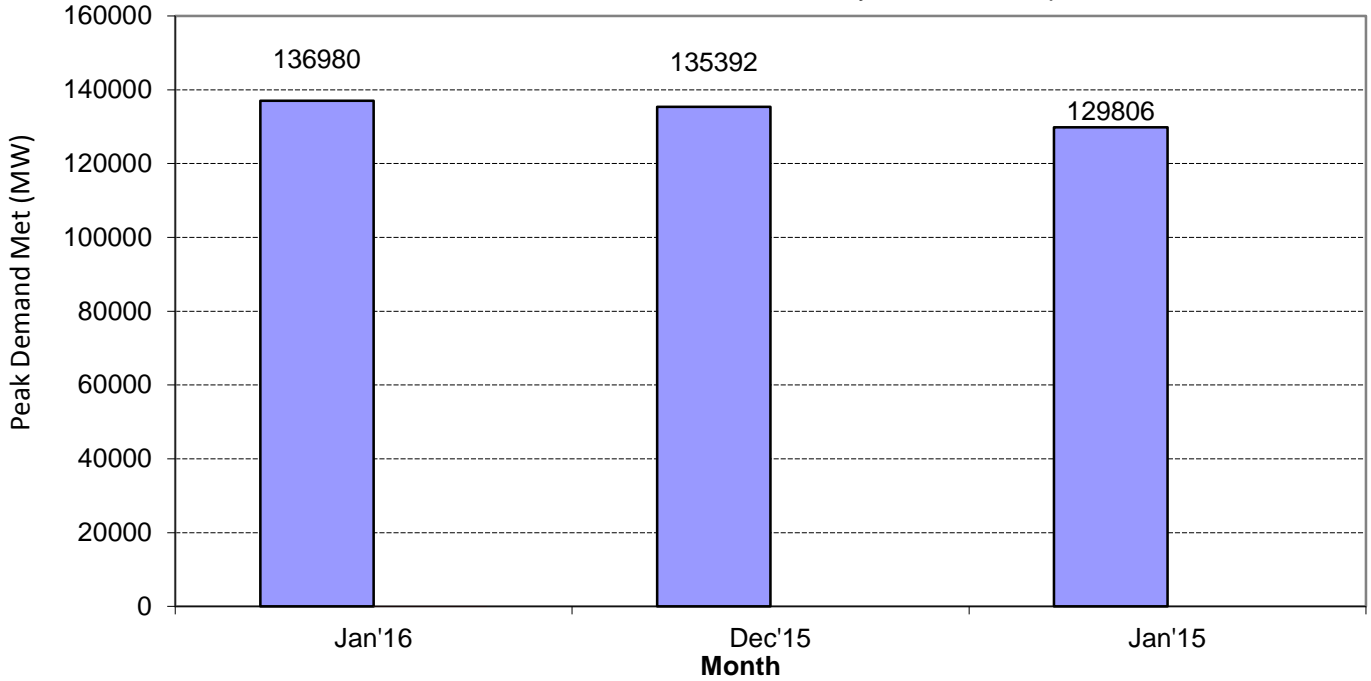
|    |  |       |
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# 1. SUMMARY OF REPORT FOR THE MONTH OF JANUARY 2016

## Peak Demand Met

Increased by 1.17% as compared to Dec 2015

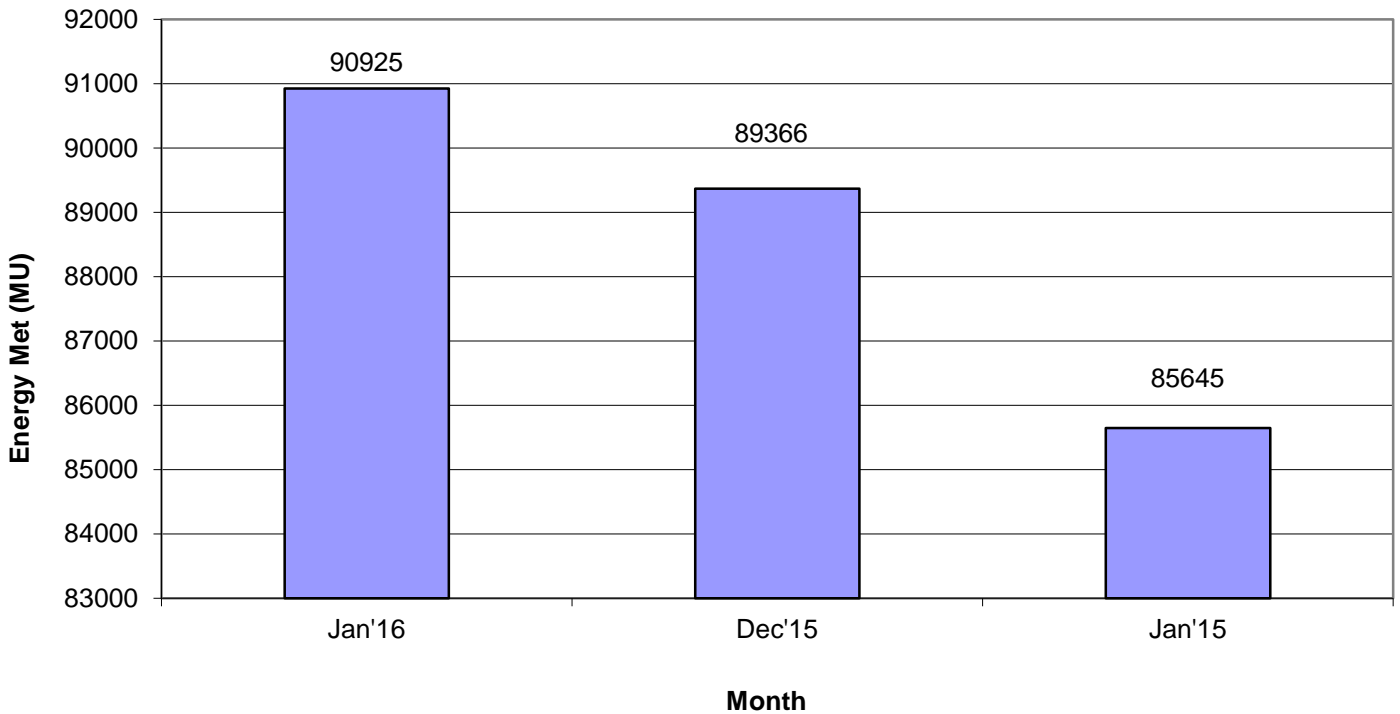
Increased by 5.52% as compared to Jan 2015



## Energy Met

Increased by 6.16% as compared to Jan 2015

Increased by 1.74% as compared to Dec 2015

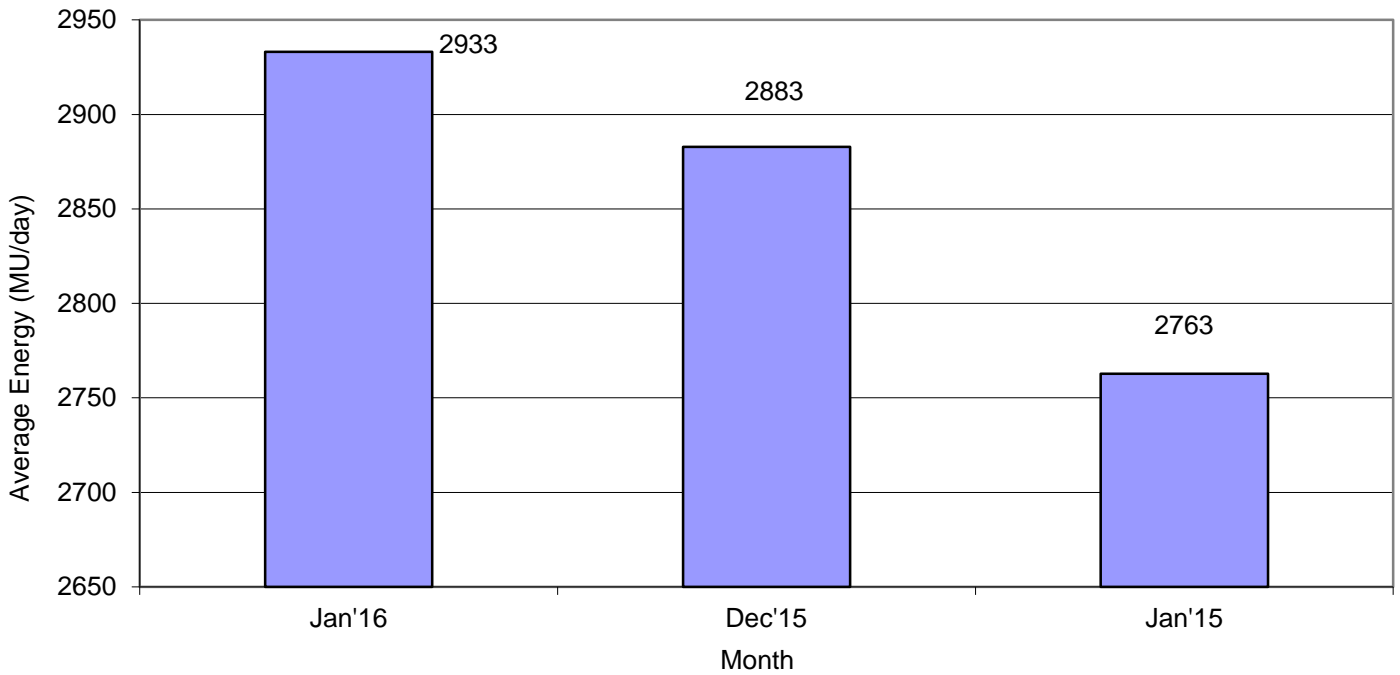


# 1. SUMMARY OF REPORT FOR THE MONTH OF JANUARY 2016

## Average Energy (MU/day)

Increased by 1.74% as compared to Dec 2015

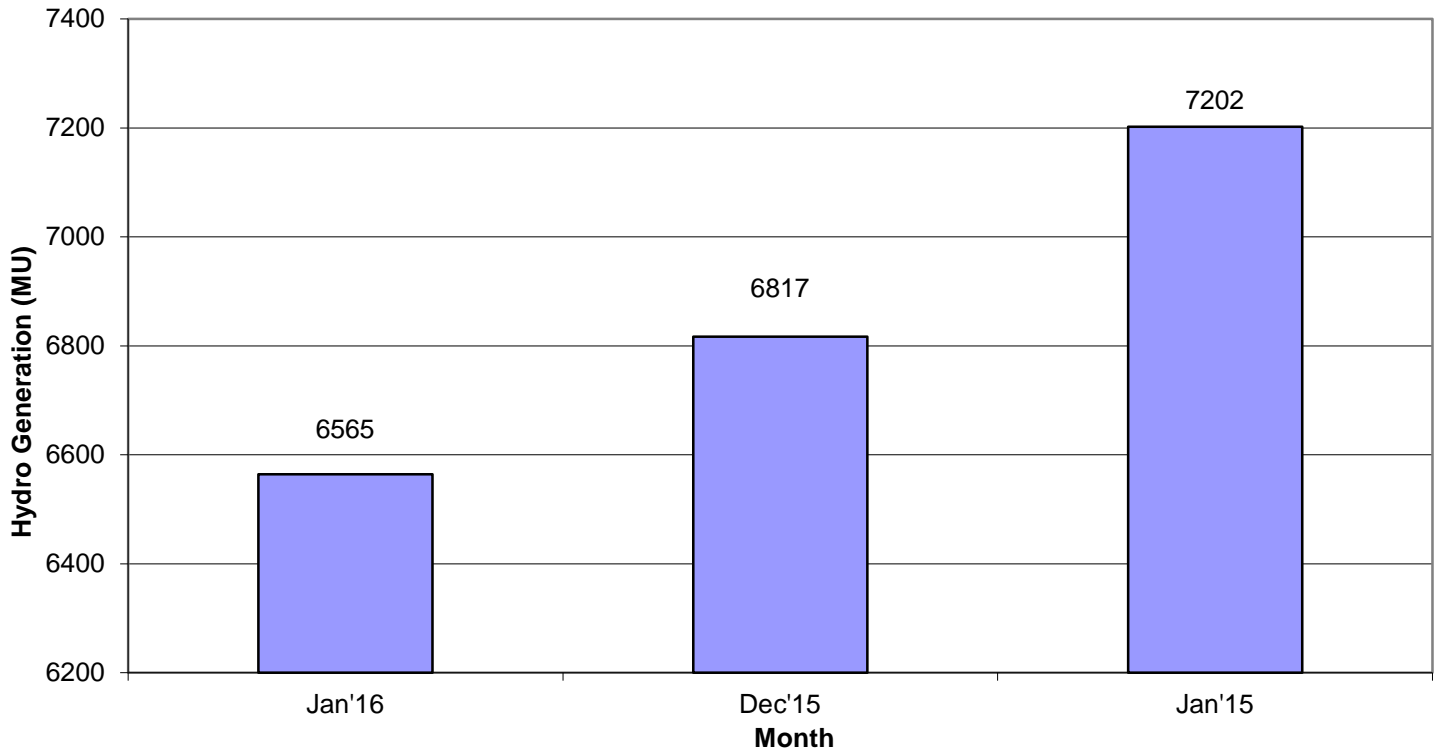
Increased by 6.16% as compared to Jan 2015



## Hydro generation

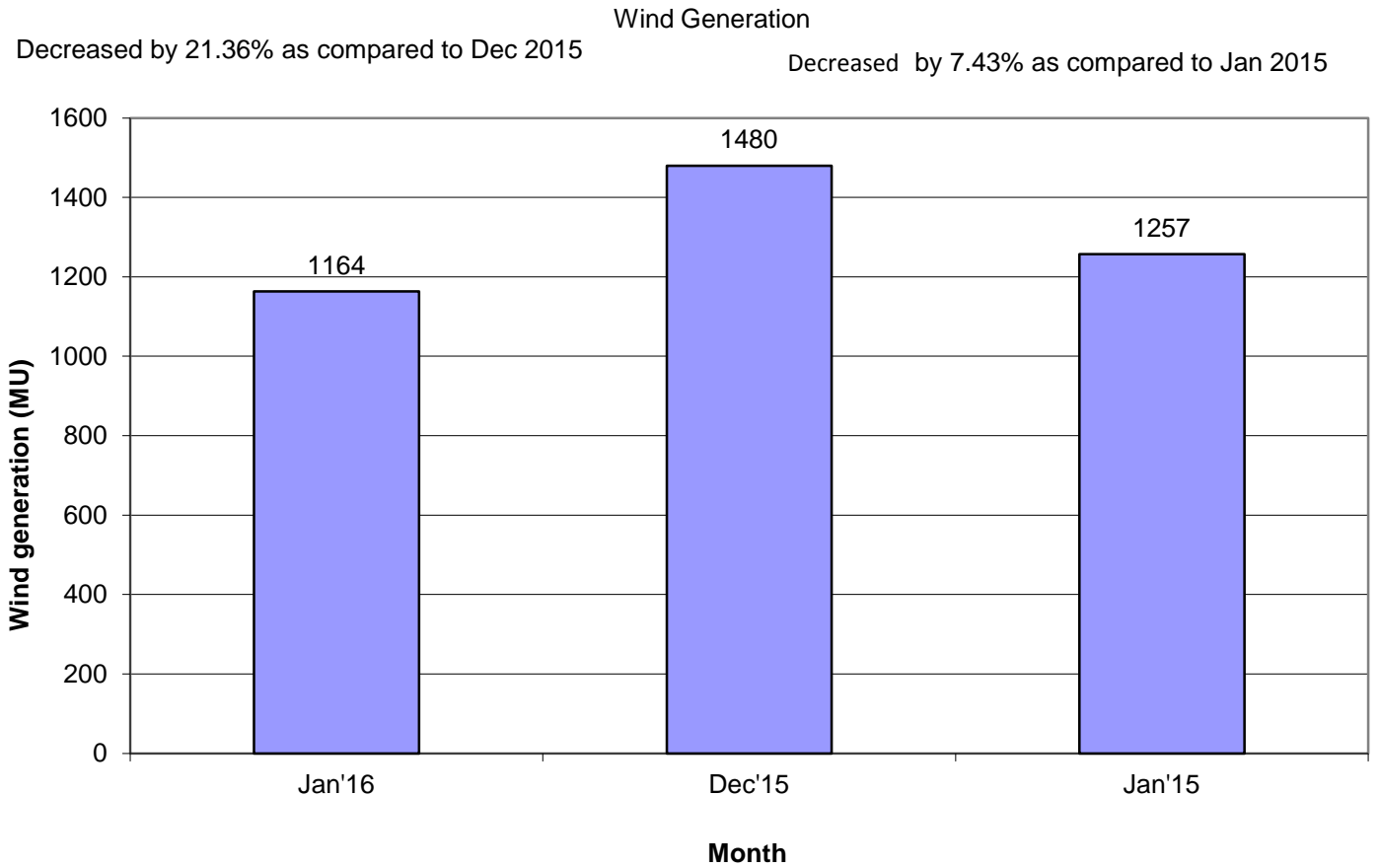
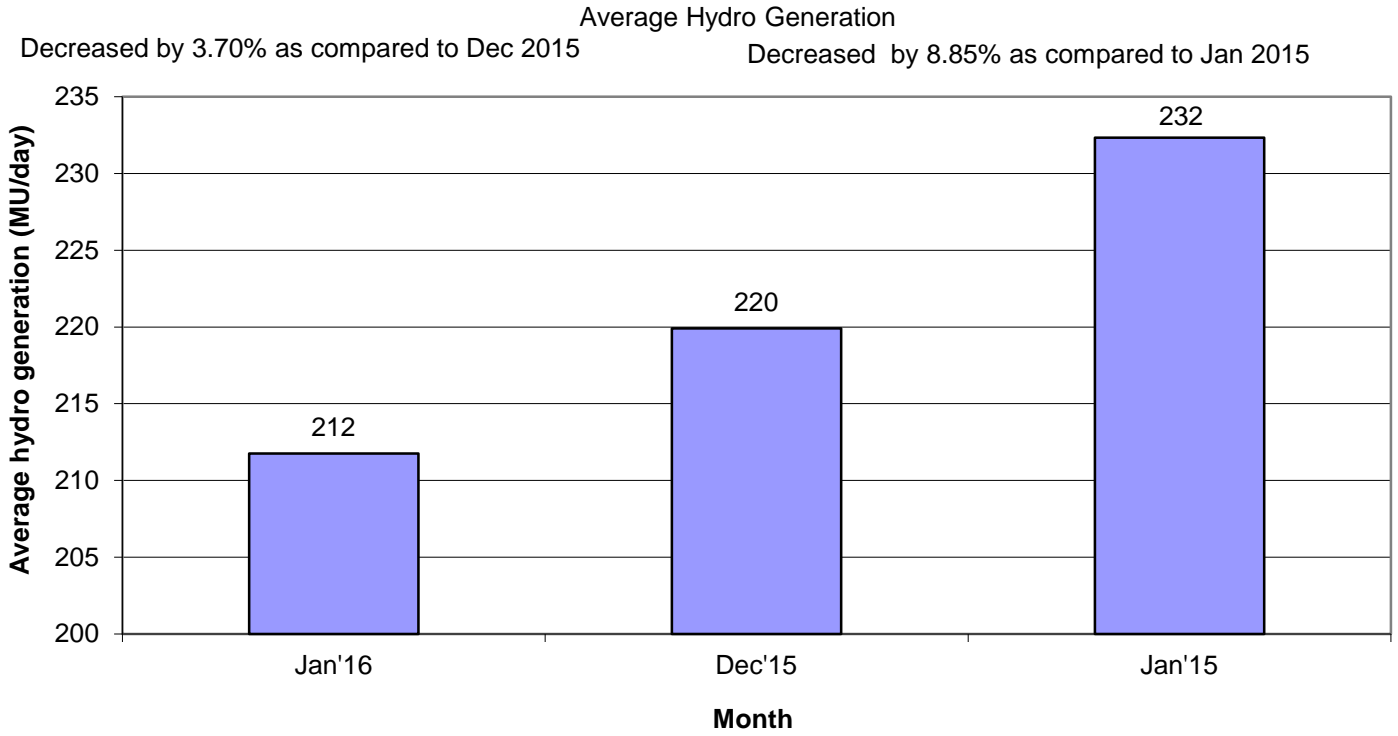
Decreased by 3.70% as compared to Dec 2015

Decreased by 8.85% as compared to Jan 2015





# 1. SUMMARY OF REPORT FOR THE MONTH OF JANUARY 2016

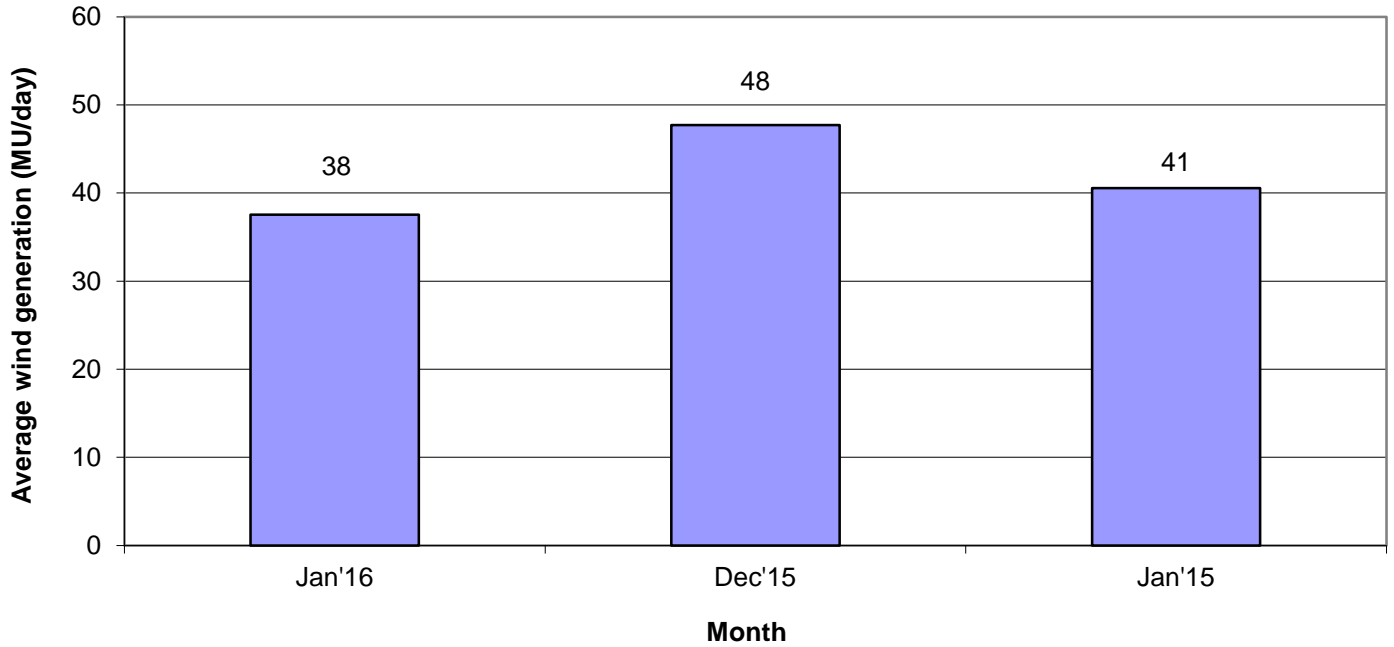


# 1. SUMMARY OF REPORT FOR THE MONTH OF JANUARY 2016

Average wind generation (MU/day)

Decreased by 21.36% as compared to Dec 2015

Decreased by 7.43% as compared to Jan 2015

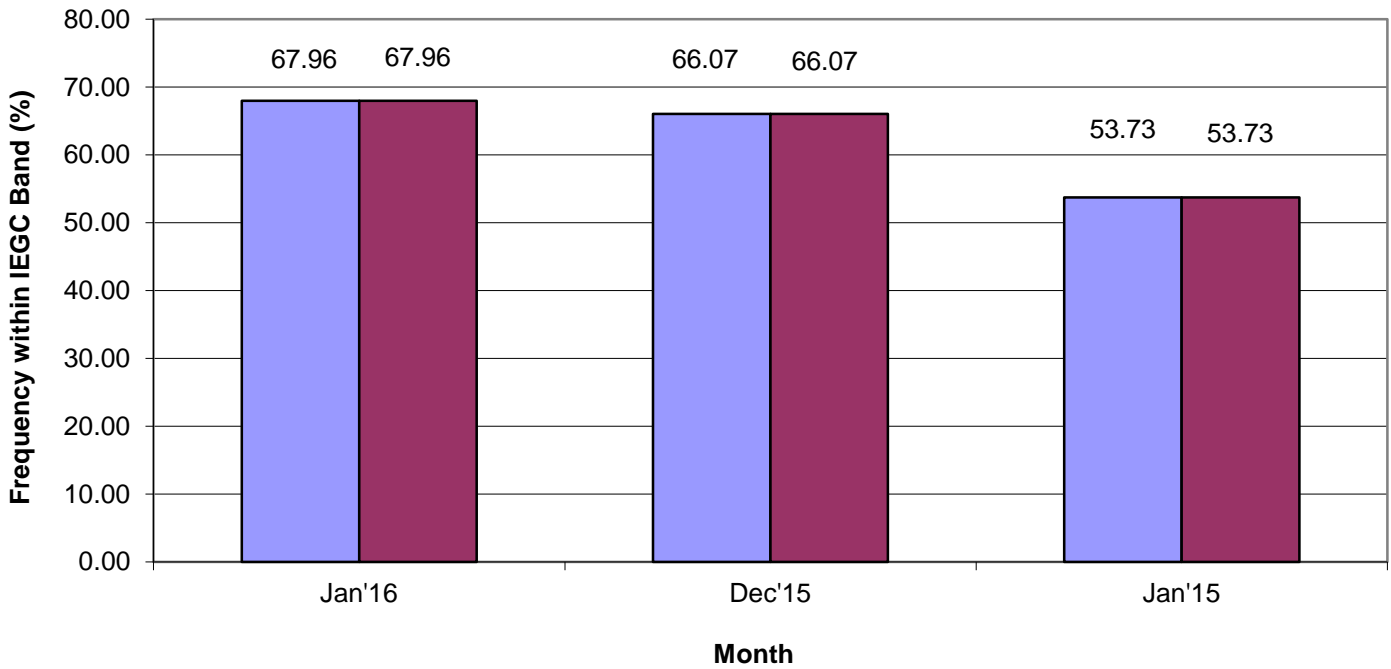


Frequency within IEGC Band

NEW Grid freq.(%) SR Grid Freq.(%)

Increased by 2.86% as compared to Dec 2015

Increased by 26.49% as compared to Jan 2015



- W.e.f 17<sup>th</sup> Feb 2014, IEGC Band has been changed to 49.90 to 50.05 from 49.70 – 50.20

(2) ALL INDIA REGIONWISE INSTALLED CAPACITY

As on 31.01.2016  
(All figures are in MW)

| S No | Region  | THERMAL |       |        |        | NUCLEAR | HYDRO | RES @<br>MNRE | GRAND<br>TOTAL |
|------|---------|---------|-------|--------|--------|---------|-------|---------------|----------------|
|      |         | COAL    | GAS   | DIESEL | TOTAL  |         |       |               |                |
| 1    | NR      | 42923   | 5331  | 0      | 48254  | 1620    | 18246 | 8166          | 76286          |
| 2    | WR      | 68499   | 10815 | 0      | 79314  | 1840    | 7448  | 13698         | 102300         |
| 3    | SR      | 33822   | 6473  | 917    | 41212  | 2320    | 11518 | 16213         | 71263          |
| 4    | ER      | 29682   | 190   | 0      | 29872  | 0       | 4209  | 469           | 34550          |
| 5    | NER     | 310     | 1698  | 36     | 2044   | 0       | 1242  | 262           | 3548           |
| 6    | ISLANDS | 0       | 0     | 40     | 40     | 0       | 0     | 11            | 51             |
|      |         | 175236  | 24508 | 994    | 200737 | 5780    | 42663 | 38819         | 287999         |

Remarks: Data from CEA website

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

माह:- जनवरी २०१६

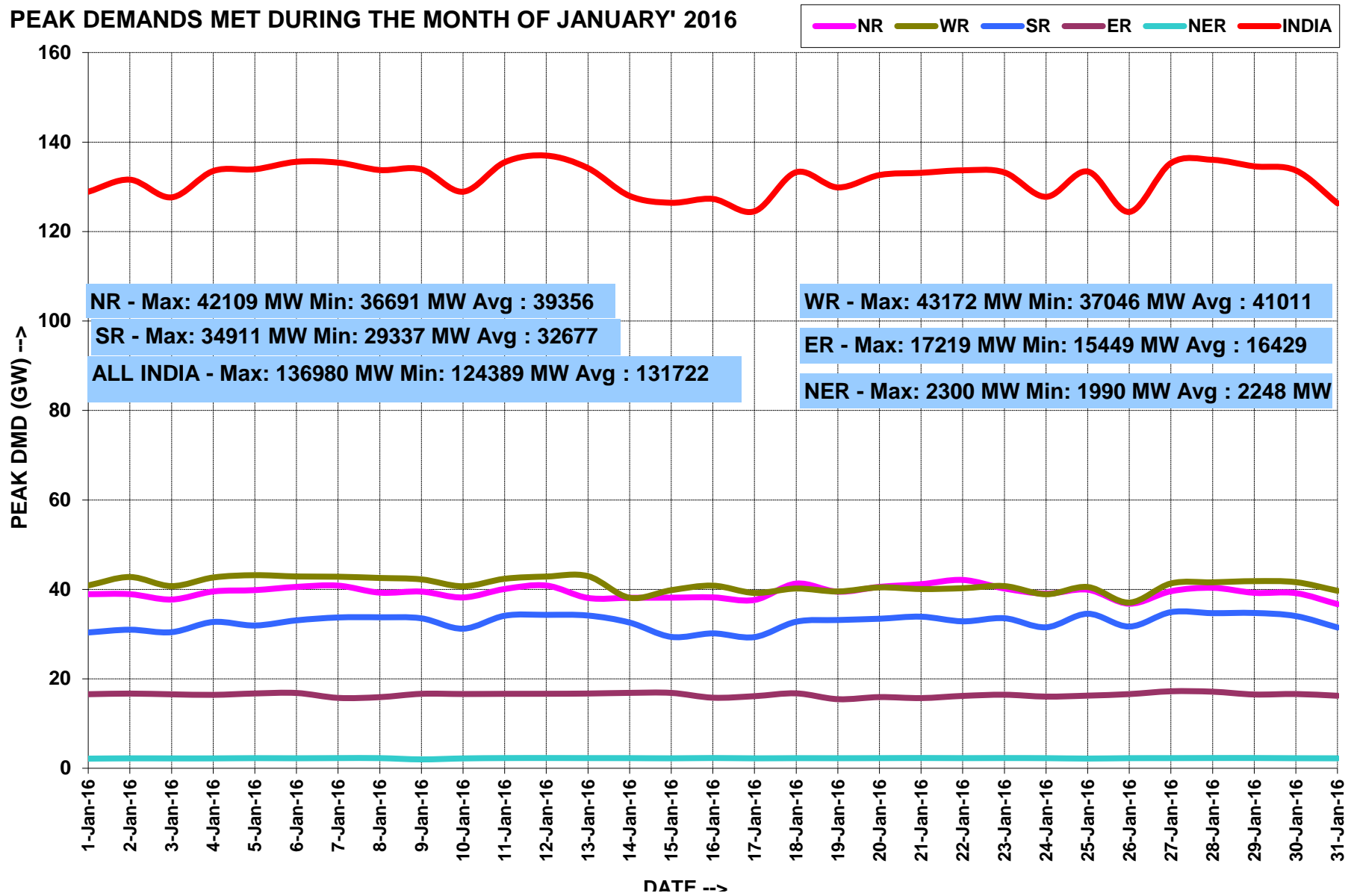
MONTH:- January 2016

सभी आकड़े मेगावाट में All figures in MW

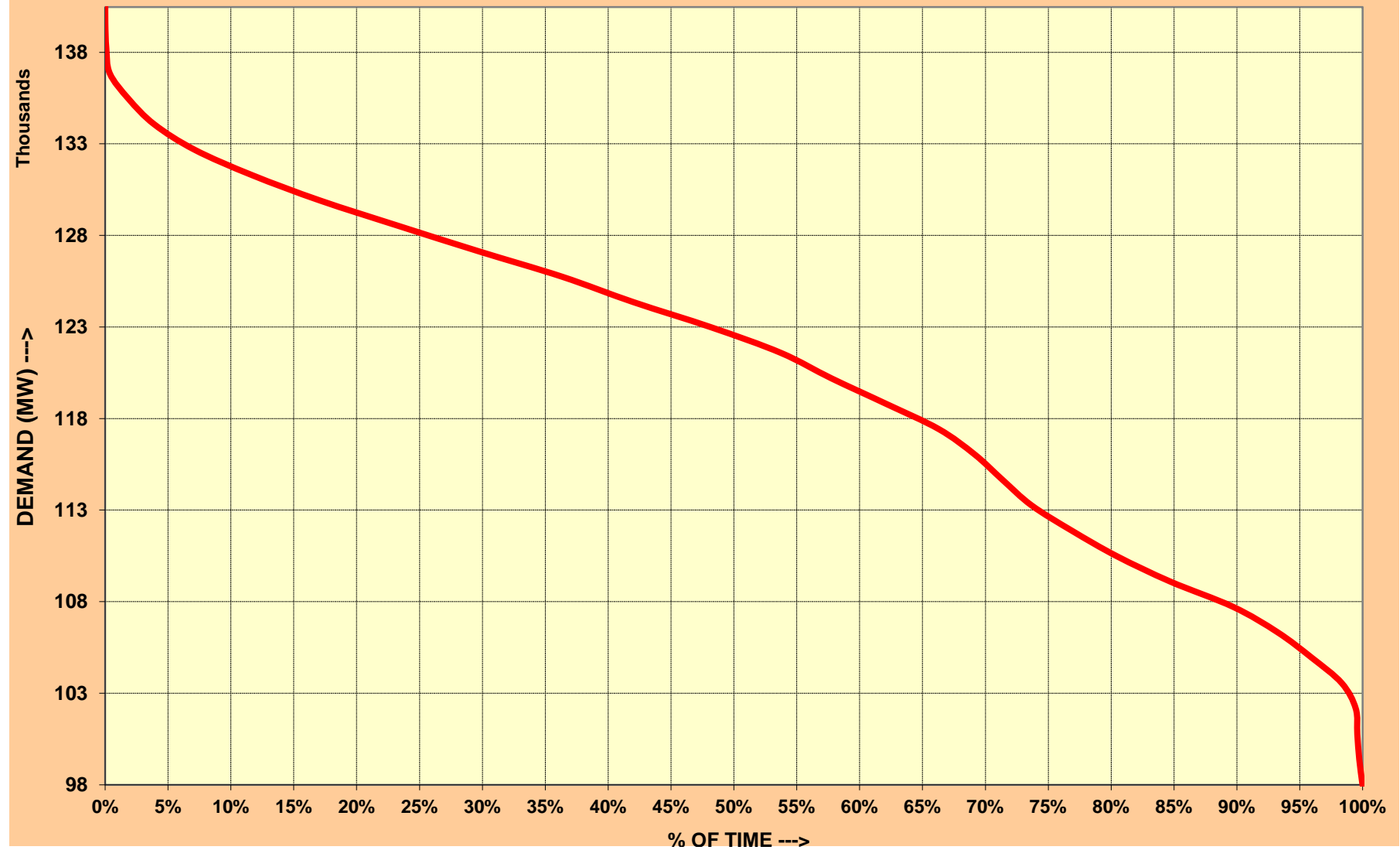
| दिनांक<br>Date                      | ऊतरी<br>क्षे. NR | पश्चिमी<br>क्षे. WR | दक्षिणी<br>क्षे. SR | पूर्वी<br>क्षे. ER | पूर्वोत्तर क्षे.<br>NER | कुल<br>TOTAL |
|-------------------------------------|------------------|---------------------|---------------------|--------------------|-------------------------|--------------|
| 01-Jan-16                           | 38928            | 40880               | 30369               | 16562              | 2163                    | 128902       |
| 02-Jan-16                           | 38926            | 42764               | 30985               | 16702              | 2224                    | 131601       |
| 03-Jan-16                           | 37735            | 40733               | 30432               | 16538              | 2211                    | 127649       |
| 04-Jan-16                           | 39531            | 42656               | 32714               | 16418              | 2215                    | 133534       |
| 05-Jan-16                           | 39832            | 43172               | 31921               | 16727              | 2270                    | 133922       |
| 06-Jan-16                           | 40556            | 42886               | 33078               | 16836              | 2242                    | 135598       |
| 07-Jan-16                           | 40837            | 42831               | 33721               | 15741              | 2281                    | 135411       |
| 08-Jan-16                           | 39268            | 42552               | 33758               | 15906              | 2271                    | 133754       |
| 09-Jan-16                           | 39501            | 42236               | 33530               | 16650              | 1990                    | 133907       |
| 10-Jan-16                           | 38194            | 40695               | 31209               | 16605              | 2208                    | 128912       |
| 11-Jan-16                           | 40086            | 42372               | 34105               | 16649              | 2285                    | 135497       |
| 12-Jan-16                           | 40854            | 42867               | 34301               | 16659              | 2298                    | 136980       |
| 13-Jan-16                           | 38086            | 42957               | 34151               | 16712              | 2279                    | 134186       |
| 14-Jan-16                           | 38122            | 38126               | 32576               | 16864              | 2272                    | 127960       |
| 15-Jan-16                           | 38150            | 39819               | 29378               | 16856              | 2231                    | 126434       |
| 16-Jan-16                           | 38215            | 40834               | 30161               | 15785              | 2299                    | 127294       |
| 17-Jan-16                           | 37637            | 39208               | 29337               | 16125              | 2228                    | 124536       |
| 18-Jan-16                           | 41293            | 40193               | 32766               | 16749              | 2268                    | 133269       |
| 19-Jan-16                           | 39482            | 39533               | 33150               | 15449              | 2253                    | 129867       |
| 20-Jan-16                           | 40562            | 40443               | 33435               | 15919              | 2274                    | 132633       |
| 21-Jan-16                           | 41160            | 40077               | 33896               | 15697              | 2300                    | 133130       |
| 22-Jan-16                           | 42109            | 40263               | 32856               | 16185              | 2273                    | 133686       |
| 23-Jan-16                           | 40197            | 40733               | 33549               | 16448              | 2292                    | 133219       |
| 24-Jan-16                           | 39041            | 38910               | 31524               | 16028              | 2264                    | 127767       |
| 25-Jan-16                           | 39932            | 40526               | 34549               | 16245              | 2178                    | 133430       |
| 26-Jan-16                           | 36802            | 37046               | 31689               | 16589              | 2264                    | 124389       |
| 27-Jan-16                           | 39585            | 41325               | 34911               | 17219              | 2274                    | 135314       |
| 28-Jan-16                           | 40355            | 41575               | 34684               | 17124              | 2296                    | 136033       |
| 29-Jan-16                           | 39226            | 41840               | 34724               | 16501              | 2297                    | 134588       |
| 30-Jan-16                           | 39158            | 41612               | 34029               | 16608              | 2253                    | 133660       |
| 31-Jan-16                           | 36691            | 39684               | 31484               | 16216              | 2234                    | 126309       |
| उच्चतम<br>MAXIMUM                   | 42109            | 43172               | 34911               | 17219              | 2300                    | 136980       |
| निम्नतम<br>MINIMUM                  | 36691            | 37046               | 29337               | 15449              | 1990                    | 124389       |
| औसत AVERAGE                         | 39356            | 41011               | 32677               | 16429              | 2248                    | 131722       |
| अब तक का<br>उच्चतम All<br>Time Max. | 50354            | 47617               | 36518               | 18574              | 2347                    | 147655       |
| दिनांक Date                         | 11.09.15         | 20.10.15            | 26.03.15            | 17.10.15           | 14.11.15                | 11.09.15     |

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 JANUARY' 2016



## ALL INDIA LOAD DURATION CURVE FOR JANUARY' 2016



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

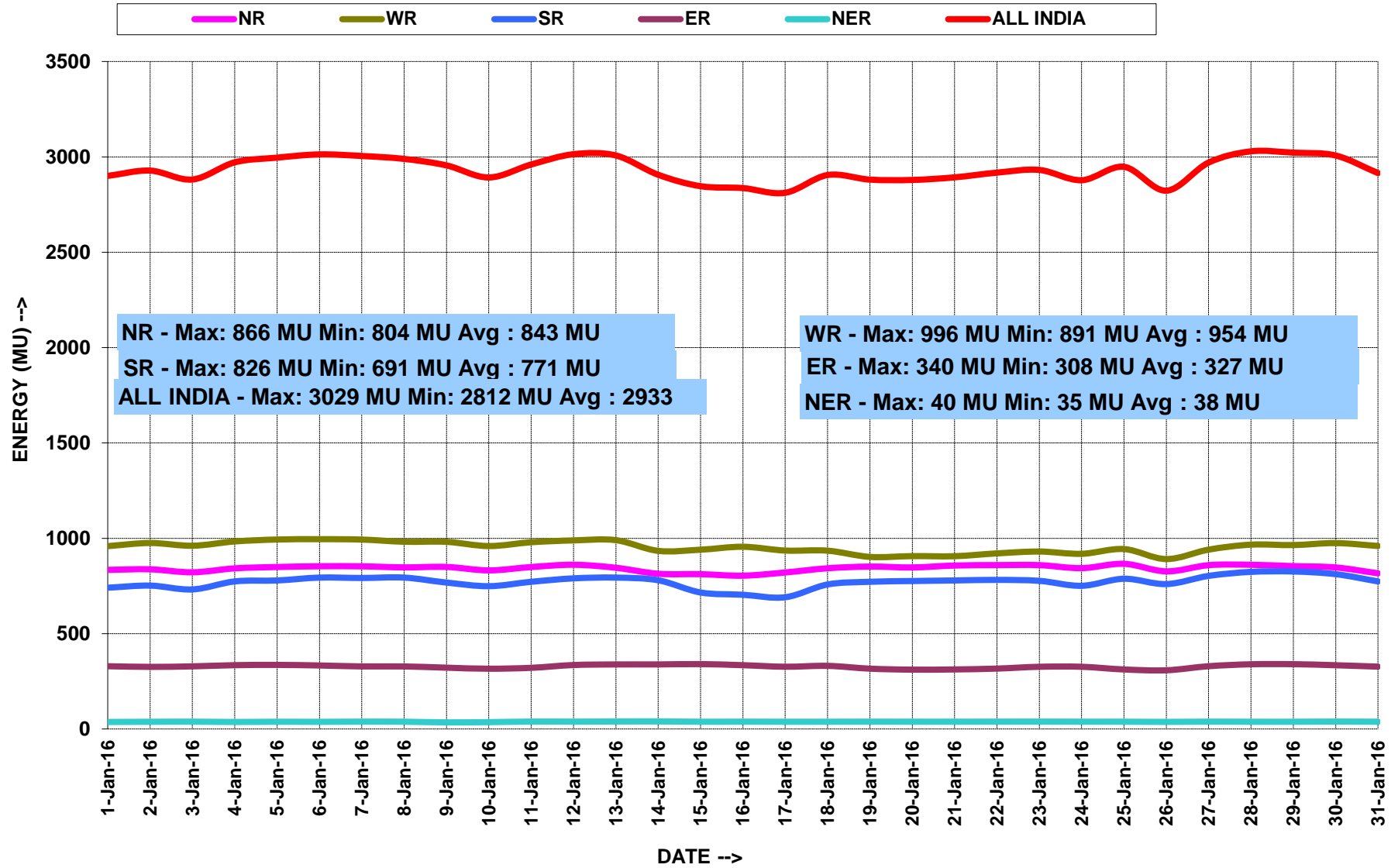
माह:- जनवरी २०१६

MONTH:- January 2016

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-Jan-16                           | 835                | 959                 | 741                 | 329                | 37                      | 2901         |
| 02-Jan-16                           | 837                | 975                 | 752                 | 326                | 38                      | 2928         |
| 03-Jan-16                           | 822                | 961                 | 732                 | 328                | 38                      | 2882         |
| 04-Jan-16                           | 843                | 984                 | 774                 | 335                | 37                      | 2972         |
| 05-Jan-16                           | 850                | 994                 | 779                 | 336                | 38                      | 2996         |
| 06-Jan-16                           | 853                | 996                 | 794                 | 333                | 38                      | 3013         |
| 07-Jan-16                           | 853                | 993                 | 792                 | 328                | 39                      | 3005         |
| 08-Jan-16                           | 848                | 982                 | 794                 | 328                | 38                      | 2990         |
| 09-Jan-16                           | 850                | 981                 | 768                 | 322                | 35                      | 2956         |
| 10-Jan-16                           | 832                | 959                 | 749                 | 316                | 36                      | 2892         |
| 11-Jan-16                           | 849                | 979                 | 772                 | 321                | 39                      | 2960         |
| 12-Jan-16                           | 861                | 989                 | 790                 | 336                | 39                      | 3014         |
| 13-Jan-16                           | 846                | 990                 | 794                 | 339                | 39                      | 3008         |
| 14-Jan-16                           | 814                | 934                 | 780                 | 339                | 40                      | 2907         |
| 15-Jan-16                           | 812                | 940                 | 716                 | 340                | 38                      | 2847         |
| 16-Jan-16                           | 804                | 956                 | 704                 | 335                | 38                      | 2837         |
| 17-Jan-16                           | 821                | 936                 | 691                 | 327                | 38                      | 2812         |
| 18-Jan-16                           | 843                | 935                 | 758                 | 331                | 38                      | 2905         |
| 19-Jan-16                           | 852                | 903                 | 772                 | 316                | 38                      | 2881         |
| 20-Jan-16                           | 847                | 907                 | 776                 | 311                | 38                      | 2879         |
| 21-Jan-16                           | 857                | 906                 | 779                 | 312                | 38                      | 2893         |
| 22-Jan-16                           | 860                | 921                 | 782                 | 317                | 39                      | 2918         |
| 23-Jan-16                           | 859                | 931                 | 777                 | 326                | 39                      | 2932         |
| 24-Jan-16                           | 844                | 919                 | 751                 | 326                | 38                      | 2878         |
| 25-Jan-16                           | 866                | 944                 | 788                 | 312                | 38                      | 2948         |
| 26-Jan-16                           | 827                | 891                 | 760                 | 308                | 37                      | 2823         |
| 27-Jan-16                           | 859                | 941                 | 803                 | 329                | 39                      | 2971         |
| 28-Jan-16                           | 861                | 967                 | 824                 | 339                | 38                      | 3029         |
| 29-Jan-16                           | 854                | 965                 | 826                 | 340                | 38                      | 3022         |
| 30-Jan-16                           | 847                | 975                 | 812                 | 334                | 39                      | 3008         |
| 31-Jan-16                           | 816                | 960                 | 774                 | 327                | 38                      | 2915         |
| कुल TOTAL                           | 26122              | 29573               | 23904               | 10147              | 1179                    | 90925        |
| उच्चतम<br>MAXIMUM                   | 866                | 996                 | 826                 | 340                | 40                      | 3029         |
| निम्नतम<br>MINIMUM                  | 804                | 891                 | 691                 | 308                | 35                      | 2812         |
| औसत<br>AVERAGE                      | 843                | 954                 | 771                 | 327                | 38                      | 2933         |
| अब तक का<br>उच्चतम All<br>Time Max. | 1147               | 1131                | 893                 | 387                | 44                      | 3342         |
| दिनांक Date                         | 11.09.15           | 20.10.15            | 26.03.15            | 03.10.15           | 18.09.15                | 11.09.15     |

### ENERGY MET DURING THE MONTH OF JANUARY' 2016

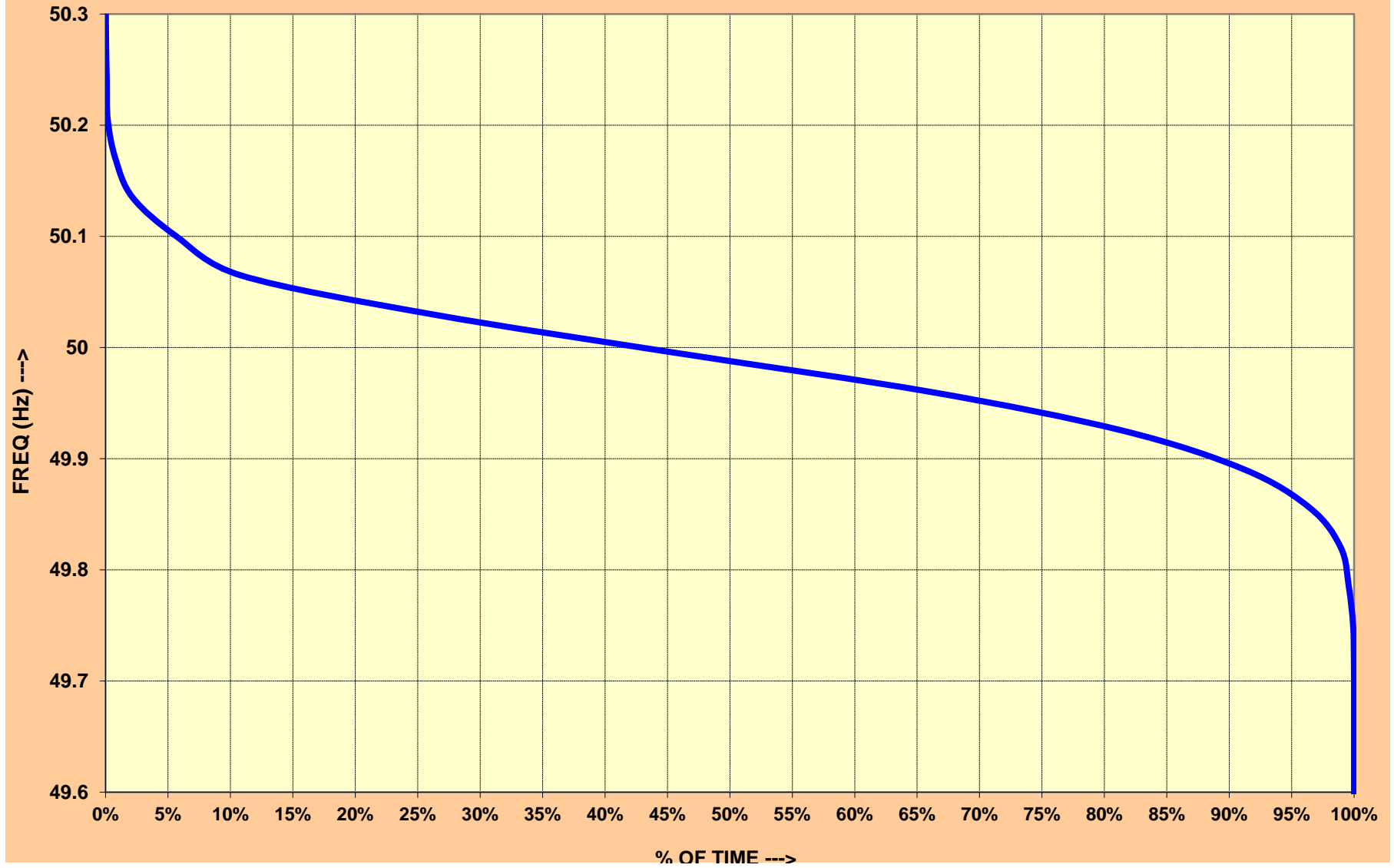




5.2 जनवरी २०१६ के लिए आवृत्ति रूपरेखा FREQUENCY PROFILE FOR January 2016

| फ़िक्वेंसी रूपरेखा (Hz) |           | <49.0 | 49.0-49.9 | <49.9 | 49.9-50.05 | >50.05 | उच्चतम फ़िक्वेंसी | निम्नतम फ़िक्वेंसी | औसत फ़िक्वेंसी |
|-------------------------|-----------|-------|-----------|-------|------------|--------|-------------------|--------------------|----------------|
| % समय                   | 01-Jan-16 | 0.00  | 13.96     | 13.96 | 63.72      | 22.33  | 50.22             | 49.73              | 49.99          |
|                         | 02-Jan-16 | 0.00  | 13.26     | 13.26 | 70.90      | 15.83  | 50.25             | 49.76              | 49.98          |
|                         | 03-Jan-16 | 0.00  | 9.70      | 9.70  | 72.01      | 18.29  | 50.23             | 49.76              | 49.99          |
|                         | 04-Jan-16 | 0.00  | 13.75     | 13.75 | 64.58      | 21.67  | 50.24             | 49.76              | 49.99          |
|                         | 05-Jan-16 | 0.00  | 9.80      | 9.80  | 74.40      | 15.80  | 50.23             | 49.76              | 49.99          |
|                         | 06-Jan-16 | 0.00  | 11.09     | 11.09 | 76.46      | 12.45  | 50.23             | 49.76              | 49.98          |
|                         | 07-Jan-16 | 0.00  | 14.44     | 14.44 | 73.40      | 12.15  | 50.31             | 49.74              | 49.98          |
|                         | 08-Jan-16 | 0.00  | 9.22      | 9.22  | 71.72      | 19.05  | 50.19             | 49.73              | 49.99          |
|                         | 09-Jan-16 | 0.00  | 6.55      | 6.55  | 69.11      | 24.34  | 50.22             | 49.79              | 50.00          |
|                         | 10-Jan-16 | 0.00  | 1.45      | 1.45  | 58.77      | 39.78  | 50.26             | 49.83              | 50.03          |
|                         | 11-Jan-16 | 0.00  | 4.07      | 4.07  | 66.27      | 29.65  | 50.30             | 49.74              | 50.02          |
|                         | 12-Jan-16 | 0.00  | 4.46      | 4.46  | 66.66      | 28.89  | 50.25             | 49.80              | 50.02          |
|                         | 13-Jan-16 | 0.00  | 7.43      | 7.43  | 71.90      | 20.67  | 50.27             | 49.77              | 50.00          |
|                         | 14-Jan-16 | 0.00  | 15.15     | 15.15 | 62.12      | 22.73  | 50.22             | 49.76              | 49.99          |
|                         | 15-Jan-16 | 0.00  | 8.89      | 8.89  | 63.13      | 27.99  | 50.34             | 49.77              | 50.01          |
|                         | 16-Jan-16 | 0.00  | 23.80     | 23.80 | 62.36      | 13.84  | 50.16             | 49.70              | 49.96          |
|                         | 17-Jan-16 | 0.00  | 8.90      | 8.90  | 72.47      | 18.63  | 50.21             | 49.78              | 49.99          |
|                         | 18-Jan-16 | 0.00  | 14.93     | 14.93 | 66.97      | 18.10  | 50.23             | 49.71              | 49.98          |
|                         | 19-Jan-16 | 0.00  | 15.54     | 15.54 | 65.16      | 19.29  | 50.24             | 49.73              | 49.98          |
|                         | 20-Jan-16 | 0.00  | 10.47     | 10.47 | 57.84      | 31.69  | 50.27             | 49.79              | 50.01          |
|                         | 21-Jan-16 | 0.00  | 2.89      | 2.89  | 64.32      | 32.79  | 50.27             | 49.82              | 50.02          |
|                         | 22-Jan-16 | 0.00  | 9.73      | 9.73  | 62.28      | 27.99  | 50.26             | 49.73              | 50.00          |
|                         | 23-Jan-16 | 0.00  | 11.16     | 11.16 | 71.42      | 17.42  | 50.25             | 49.78              | 49.99          |
|                         | 24-Jan-16 | 0.00  | 8.06      | 8.06  | 70.81      | 21.13  | 50.23             | 49.73              | 50.00          |
|                         | 25-Jan-16 | 0.00  | 7.03      | 7.03  | 70.02      | 22.95  | 50.24             | 49.79              | 50.00          |
|                         | 26-Jan-16 | 0.00  | 2.28      | 2.28  | 76.12      | 21.60  | 50.39             | 49.84              | 50.01          |
|                         | 27-Jan-16 | 0.00  | 5.38      | 5.38  | 67.28      | 27.34  | 50.23             | 49.78              | 50.01          |
|                         | 28-Jan-16 | 0.00  | 6.63      | 6.63  | 75.20      | 18.17  | 50.36             | 49.83              | 50.00          |
|                         | 29-Jan-16 | 0.00  | 6.48      | 6.48  | 70.82      | 22.70  | 50.32             | 49.77              | 50.00          |
|                         | 30-Jan-16 | 0.00  | 2.04      | 2.04  | 62.28      | 35.68  | 50.31             | 49.81              | 50.03          |
|                         | 31-Jan-16 | 0.00  | 6.26      | 6.26  | 66.38      | 27.36  | 50.31             | 49.79              | 50.01          |

### NEWS GRID FREQUENCY DURATION CURVE FOR JANUARY' 2016



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

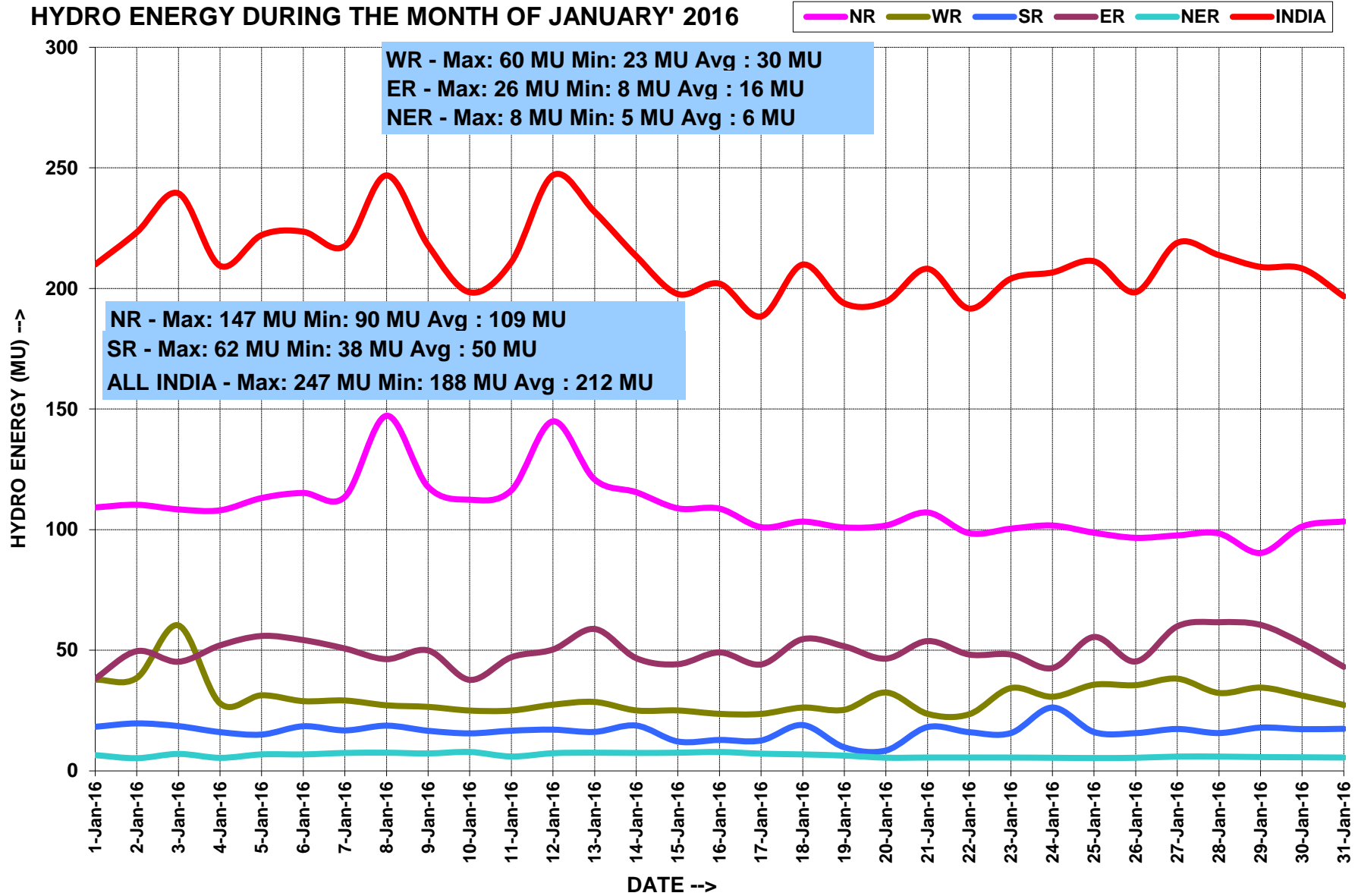
माह:- जनवरी २०१६

MONTH:- January 2016

सभी आंकड़े मिलियन यूनिट में All figures in MU

| दिनांक<br>Date                      | उत्तरी क्षे.<br>NR | पश्चिमी<br>क्षे. WR | दक्षिणी क्षे.<br>SR | पूर्वी क्षे.<br>ER | पूर्वोत्तर क्षे.<br>NER | कुल<br>TOTAL |
|-------------------------------------|--------------------|---------------------|---------------------|--------------------|-------------------------|--------------|
| 01-Jan-16                           | 109                | 38                  | 38                  | 18                 | 7                       | 210          |
| 02-Jan-16                           | 110                | 39                  | 50                  | 20                 | 5                       | 223          |
| 03-Jan-16                           | 108                | 60                  | 45                  | 19                 | 7                       | 239          |
| 04-Jan-16                           | 108                | 28                  | 52                  | 16                 | 5                       | 209          |
| 05-Jan-16                           | 113                | 31                  | 56                  | 15                 | 7                       | 222          |
| 06-Jan-16                           | 115                | 29                  | 54                  | 18                 | 7                       | 224          |
| 07-Jan-16                           | 114                | 29                  | 51                  | 17                 | 7                       | 218          |
| 08-Jan-16                           | 147                | 27                  | 46                  | 19                 | 8                       | 247          |
| 09-Jan-16                           | 118                | 27                  | 50                  | 17                 | 7                       | 218          |
| 10-Jan-16                           | 112                | 25                  | 38                  | 16                 | 8                       | 198          |
| 11-Jan-16                           | 116                | 25                  | 47                  | 17                 | 6                       | 211          |
| 12-Jan-16                           | 145                | 27                  | 50                  | 17                 | 7                       | 247          |
| 13-Jan-16                           | 121                | 29                  | 59                  | 16                 | 8                       | 232          |
| 14-Jan-16                           | 116                | 25                  | 47                  | 19                 | 7                       | 213          |
| 15-Jan-16                           | 109                | 25                  | 44                  | 12                 | 8                       | 198          |
| 16-Jan-16                           | 109                | 24                  | 49                  | 13                 | 8                       | 202          |
| 17-Jan-16                           | 101                | 24                  | 44                  | 13                 | 7                       | 188          |
| 18-Jan-16                           | 103                | 26                  | 55                  | 19                 | 7                       | 210          |
| 19-Jan-16                           | 101                | 25                  | 52                  | 10                 | 6                       | 194          |
| 20-Jan-16                           | 102                | 32                  | 47                  | 8                  | 5                       | 195          |
| 21-Jan-16                           | 107                | 24                  | 54                  | 18                 | 6                       | 208          |
| 22-Jan-16                           | 99                 | 23                  | 48                  | 16                 | 6                       | 192          |
| 23-Jan-16                           | 100                | 34                  | 48                  | 16                 | 6                       | 204          |
| 24-Jan-16                           | 102                | 31                  | 43                  | 26                 | 5                       | 207          |
| 25-Jan-16                           | 99                 | 36                  | 56                  | 16                 | 5                       | 211          |
| 26-Jan-16                           | 97                 | 36                  | 45                  | 16                 | 5                       | 198          |
| 27-Jan-16                           | 98                 | 38                  | 60                  | 17                 | 6                       | 219          |
| 28-Jan-16                           | 98                 | 32                  | 62                  | 16                 | 6                       | 214          |
| 29-Jan-16                           | 90                 | 34                  | 61                  | 18                 | 6                       | 209          |
| 30-Jan-16                           | 101                | 31                  | 53                  | 17                 | 6                       | 208          |
| 31-Jan-16                           | 103                | 27                  | 43                  | 17                 | 6                       | 197          |
| कुल TOTAL                           | 3371               | 941                 | 1544                | 510                | 198                     | 6565         |
| उच्चतम<br>MAXIMUM                   | 147                | 60                  | 62                  | 26                 | 8                       | 247          |
| निम्नतम<br>MINIMUM                  | 90                 | 23                  | 38                  | 8                  | 5                       | 188          |
| औसत<br>AVERAGE                      | 109                | 30                  | 50                  | 16                 | 6                       | 212          |
| अब तक का<br>उच्चतम All<br>Time Max. | 389                | 167                 | 202                 | 94                 | 29                      | 712          |
| दिनांक Date                         | 18.08.15           | 18.12.14            | 09.08.13            | 09.09.14           | 27.08.15                | 27.08.13     |

# HYDRO ENERGY DURING THE MONTH OF JANUARY' 2016



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

माह:- जनवरी २०१६

MONTH:- January 2016

सभी आंकड़े मिलियन यूनिट में All figures in MU

| दिनांक<br>Date                      | ऊत्तरी क्षे.<br>NR | पश्चिमी<br>क्षे. WR | दक्षिणी क्षे.<br>SR | पूर्वी क्षे.<br>ER | पूर्वोत्तर क्षे.<br>NER | कुल<br>TOTAL |
|-------------------------------------|--------------------|---------------------|---------------------|--------------------|-------------------------|--------------|
| 01-Jan-16                           | 7                  | 27                  | 44                  | -----              | -----                   | 78           |
| 02-Jan-16                           | 3                  | 12                  | 31                  | -----              | -----                   | 45           |
| 03-Jan-16                           | 2                  | 8                   | 24                  | -----              | -----                   | 34           |
| 04-Jan-16                           | 5                  | 9                   | 25                  | -----              | -----                   | 39           |
| 05-Jan-16                           | 9                  | 10                  | 23                  | -----              | -----                   | 42           |
| 06-Jan-16                           | 3                  | 8                   | 22                  | -----              | -----                   | 33           |
| 07-Jan-16                           | 4                  | 13                  | 26                  | -----              | -----                   | 43           |
| 08-Jan-16                           | 2                  | 21                  | 20                  | -----              | -----                   | 43           |
| 09-Jan-16                           | 2                  | 10                  | 23                  | -----              | -----                   | 35           |
| 10-Jan-16                           | 5                  | 6                   | 22                  | -----              | -----                   | 33           |
| 11-Jan-16                           | 3                  | 8                   | 23                  | -----              | -----                   | 34           |
| 12-Jan-16                           | 6                  | 7                   | 22                  | -----              | -----                   | 35           |
| 13-Jan-16                           | 5                  | 9                   | 12                  | -----              | -----                   | 27           |
| 14-Jan-16                           | 2                  | 14                  | 15                  | -----              | -----                   | 32           |
| 15-Jan-16                           | 6                  | 23                  | 15                  | -----              | -----                   | 45           |
| 16-Jan-16                           | 5                  | 22                  | 10                  | -----              | -----                   | 37           |
| 17-Jan-16                           | 3                  | 16                  | 6                   | -----              | -----                   | 26           |
| 18-Jan-16                           | 8                  | 16                  | 8                   | -----              | -----                   | 32           |
| 19-Jan-16                           | 7                  | 20                  | 7                   | -----              | -----                   | 33           |
| 20-Jan-16                           | 3                  | 24                  | 4                   | -----              | -----                   | 30           |
| 21-Jan-16                           | 3                  | 24                  | 7                   | -----              | -----                   | 35           |
| 22-Jan-16                           | 3                  | 22                  | 20                  | -----              | -----                   | 45           |
| 23-Jan-16                           | 4                  | 24                  | 22                  | -----              | -----                   | 51           |
| 24-Jan-16                           | 4                  | 18                  | 18                  | -----              | -----                   | 39           |
| 25-Jan-16                           | 3                  | 10                  | 15                  | -----              | -----                   | 29           |
| 26-Jan-16                           | 4                  | 13                  | 14                  | -----              | -----                   | 30           |
| 27-Jan-16                           | 3                  | 14                  | 7                   | -----              | -----                   | 25           |
| 28-Jan-16                           | 1                  | 12                  | 9                   | -----              | -----                   | 22           |
| 29-Jan-16                           | 21                 | 11                  | 13                  | -----              | -----                   | 44           |
| 30-Jan-16                           | 6                  | 17                  | 21                  | -----              | -----                   | 43           |
| 31-Jan-16                           | 8                  | 14                  | 23                  | -----              | -----                   | 45           |
| कुल TOTAL                           | 149                | 462                 | 553                 | -----              | -----                   | 1164         |
| उच्चतम<br>MAXIMUM                   | 21                 | 27                  | 44                  | -----              | -----                   | 78           |
| निम्नतम<br>MINIMUM                  | 1                  | 6                   | 4                   | -----              | -----                   | 22           |
| औसत AVERAGE                         | 5                  | 15                  | 18                  | -----              | -----                   | 38           |
| अब तक का<br>उच्चतम All<br>Time Max. | 34.9               | 117.5               | 126.5               | ...                | ...                     | 273.1        |
| दिनांक Date                         | 12.06.12           | 06.07.15            | 08.07.15            | ...                | ...                     | 06.07.15     |

**8. ACTUAL POWER SUPPLY POSITION - Jan 2016**

| 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        | 3.8                                | 3.8        | 0.0                   | 116.4                          | 116.4      | 0.0                   | 0.0        | 248                        | 248             | 0                     | 0.0        |
|             | Delhi             | 63.0                               | 62.9       | 0.0                   | 1952.2                         | 1951.0     | -1.2                  | -0.1       | 4106                       | 4077            | -29                   | -0.7       |
|             | Haryana           | 117.1                              | 116.9      | -0.2                  | 3630.3                         | 3623.6     | -6.7                  | -0.2       | 7045                       | 7045            | 0                     | 0.0        |
|             | H.P.              | 25.9                               | 25.7       | -0.2                  | 803.3                          | 796.4      | -6.9                  | -0.9       | 1480                       | 1480            | 0                     | 0.0        |
|             | J&K               | 51.2                               | 43.5       | -7.7                  | 1587.3                         | 1349.6     | -237.7                | -15.0      | 2544                       | 2158            | -386                  | -15.2      |
|             | Punjab            | 99.2                               | 99.2       | 0.0                   | 3074.3                         | 3074.3     | 0.0                   | 0.0        | 6130                       | 6130            | 0                     | 0.0        |
|             | Rajasthan         | 222.0                              | 219.0      | -3.0                  | 6881.4                         | 6789.1     | -92.3                 | -1.3       | 10665                      | 10605           | -60                   | -0.6       |
|             | U.P.              | 266.3                              | 235.7      | -30.6                 | 8255.2                         | 7307.4     | -947.8                | -13.0      | 12946                      | 11626           | -1320                 | -10.2      |
|             | Uttarakhand       | 36.3                               | 35.4       | -1.0                  | 1126.8                         | 1096.2     | -30.6                 | -2.7       | 2034                       | 2034            | 0                     | 0.0        |
| NFF/Railway | 2.1               | 2.1                                | 0.0        | 64.2                  | 64.2                           | 0.0        | 0.0                   | 98         | 98                         | 0               | 0.0                   |            |
| TOTAL       | 886.8             | 844.1                              | -42.7      | 27491.3               | 26168.2                        | -1323.1    | -4.8                  | 44124      | 42109                      | -2015           | -4.6                  |            |
| WR          | Gujarat           | 272.1                              | 272.1      | 0.0                   | 8436.4                         | 8436.4     | 0.0                   | 0.0        | 13263                      | 13254           | -9                    | -0.1       |
|             | Madhya Pradesh    | 205.1                              | 205.0      | 0.0                   | 6357.1                         | 6356.1     | -1.0                  | 0.0        | 11019                      | 11019           | 0                     | 0.0        |
|             | Chhattisgarh      | 69.9                               | 68.8       | -1.1                  | 2166.1                         | 2132.8     | -33.3                 | -1.5       | 3527                       | 3622            | 95                    | 2.7        |
|             | Maharashtra       | 370.3                              | 370.1      | -0.3                  | 11480.1                        | 11472.1    | -8.0                  | -0.1       | 18647                      | 18634           | -13                   | -0.1       |
|             | Goa               | 8.5                                | 8.5        | 0.0                   | 264.3                          | 264.3      | 0.0                   | 0.0        | 427                        | 427             | 0                     | 0.0        |
|             | D&D               | 6.1                                | 6.1        | 0.0                   | 189.3                          | 189.3      | 0.0                   | 0.0        | 299                        | 299             | 0                     | 0.0        |
|             | DNH               | 15.5                               | 15.4       | 0.0                   | 479.3                          | 478.4      | -0.9                  | -0.2       | 694                        | 694             | 0                     | 0.0        |
|             | ESIL              | 6.8                                | 6.8        | 0.0                   | 210.8                          | 210.4      | -0.4                  | -0.2       | 600                        | 600             | 0                     | 0.0        |
| TOTAL       | 954.3             | 952.9                              | -1.4       | 29583.6               | 29539.9                        | -43.7      | -0.1                  | 46833      | 46896                      | 62              | 0.1                   |            |
| SR          | Andhra Pradesh    | 131.4                              | 131.4      | 0.0                   | 4074.8                         | 4074.4     | -0.5                  | 0.0        | 6863                       | 6850            | -13                   | -0.2       |
|             | Telangana         | 127.9                              | 127.9      | 0.0                   | 3965.5                         | 3965.0     | -0.5                  | 0.0        | 6359                       | 6348            | -11                   | -0.2       |
|             | KPTCL             | 189.4                              | 182.8      | -6.5                  | 5870.9                         | 5668.3     | -202.6                | -3.5       | 9717                       | 9137            | -580                  | -6.0       |
|             | KSEB              | 61.7                               | 61.7       | -0.1                  | 1914.1                         | 1912.0     | -2.1                  | -0.1       | 3545                       | 3545            | 0                     | 0.0        |
|             | TNEB              | 262.9                              | 262.9      | 0.0                   | 8151.3                         | 8150.4     | -0.9                  | 0.0        | 13576                      | 13576           | 0                     | 0.0        |
|             | PONDICHERY        | 5.9                                | 5.9        | 0.0                   | 181.6                          | 181.4      | -0.2                  | -0.1       | 318                        | 318             | 0                     | 0.0        |
| TOTAL       | 779.3             | 772.6                              | -6.7       | 24158.3               | 23951.5                        | -206.8     | -0.9                  | 38236      | 37686                      | -550            | -1.4                  |            |
| ER          | Bihar             | 71.8                               | 65.6       | -6.2                  | 2226.0                         | 2033.8     | -192.2                | -8.6       | 3500                       | 3422            | -78                   | -2.2       |
|             | JSEB              | 24.7                               | 23.3       | -1.4                  | 765.0                          | 721.4      | -43.6                 | -5.7       | 1161                       | 1161            | 0                     | 0.0        |
|             | DVC               | 60.0                               | 58.9       | -1.2                  | 1861.5                         | 1824.6     | -36.9                 | -2.0       | 2830                       | 2707            | -123                  | -4.3       |
|             | Odisha            | 69.3                               | 69.3       | 0.0                   | 2148.5                         | 2148.5     | 0.0                   | 0.0        | 3935                       | 3935            | 0                     | 0.0        |
|             | West Bengal       | 117.2                              | 116.7      | -0.4                  | 3632.3                         | 3618.9     | -13.4                 | -0.4       | 6686                       | 6665            | -21                   | -0.3       |
|             | Sikkim            | 1.1                                | 1.1        | 0.0                   | 35.6                           | 35.6       | 0.0                   | 0.0        | 85                         | 85              | 0                     | 0.0        |
| TOTAL       | 344.2             | 334.9                              | -9.2       | 10668.9               | 10382.8                        | -286.1     | -2.7                  | 17244      | 17173                      | -71             | -0.4                  |            |
| NER         | Arunachal Pradesh | 2.0                                | 2.0        | 0.0                   | 62.0                           | 61.6       | -0.4                  | -0.7       | 118                        | 117             | -1                    | -1.0       |
|             | Assam             | 22.0                               | 20.3       | -1.7                  | 682.5                          | 628.5      | -54.0                 | -7.9       | 1341                       | 1330            | -11                   | -0.8       |
|             | Manipur           | 2.6                                | 2.6        | 0.0                   | 79.5                           | 79.3       | -0.2                  | -0.3       | 168                        | 166             | -2                    | -1.2       |
|             | MeSEB             | 6.3                                | 6.1        | -0.2                  | 195.1                          | 190.1      | -5.0                  | -2.5       | 379                        | 377             | -2                    | -0.5       |
|             | Mizoram           | 1.6                                | 1.6        | 0.0                   | 49.0                           | 48.8       | -0.2                  | -0.4       | 103                        | 101             | -2                    | -1.7       |
|             | Nagaland          | 2.1                                | 2.1        | 0.0                   | 66.6                           | 66.4       | -0.2                  | -0.3       | 122                        | 122             | 0                     | 0.0        |
|             | Tripura           | 1.7                                | 1.7        | 0.0                   | 53.3                           | 52.3       | -1.0                  | -1.9       | 220                        | 220             | 0                     | 0.0        |
| TOTAL       | 38.3              | 36.4                               | -2.0       | 1188                  | 1127                           | -61.0      | -5.1                  | 2451       | 2433                       | -18             | -0.7                  |            |
| ALL INDIA   |                   | 3002.9                             | 2940.9     | -62.0                 | 93090.0                        | 91169.4    | -1920.6               | -2.1       | 148889                     | 146296          | -2592                 | -1.7       |

**9. ENERGY COMPARISON OF January 2016 Vs January 2015**

| REGION | STATE             | Energy Requirement (MU) |              |             |           |                           | Energy Met (MU) |              |             |           |                           |
|--------|-------------------|-------------------------|--------------|-------------|-----------|---------------------------|-----------------|--------------|-------------|-----------|---------------------------|
|        |                   | Jan-15                  | Jan-16       | Difference  | % Change  | Average MU/day for Jan-16 | Jan-15          | Jan-16       | Difference  | % Change  | Average for MU/day Jan-16 |
| NR     | Chandigarh        | 124                     | 116          | -8          | -6        | 4                         | 124             | 116          | -8          | -6        | 4                         |
|        | Delhi             | 2039                    | 1952         | -86         | -4        | 63                        | 2040            | 1951         | -89         | -4        | 63                        |
|        | Haryana           | 3532                    | 3630         | 98          | 3         | 117                       | 3533            | 3624         | 90          | 3         | 117                       |
|        | H.P.              | 803                     | 803          | 0           | 0         | 26                        | 804             | 796          | -7          | -1        | 26                        |
|        | J&K               | 1294                    | 1587         | 293         | 23        | 51                        | 1604            | 1350         | -254        | -16       | 44                        |
|        | Punjab            | 2788                    | 3074         | 286         | 10        | 99                        | 2788            | 3074         | 286         | 10        | 99                        |
|        | Rajasthan         | 6320                    | 6881         | 561         | 9         | 222                       | 6320            | 6789         | 469         | 7         | 219                       |
|        | U.P.              | 8311                    | 8255         | -56         | -1        | 266                       | 7211            | 7307         | 96          | 1         | 236                       |
|        | Uttarakhand       | 1109                    | 1127         | 18          | 2         | 36                        | 1127            | 1096         | -31         | -3        | 35                        |
|        | NFF/Railway       | 66                      | 64           | -2          | -2        | 2                         | 66              | 64           | -2          | -2        | 2                         |
|        | <b>TOTAL</b>      | <b>25287</b>            | <b>27491</b> | <b>2204</b> | <b>9</b>  | <b>916</b>                | <b>25618</b>    | <b>26168</b> | <b>550</b>  | <b>2</b>  | <b>844</b>                |
| WR     | Gujarat           | 7716                    | 8436         | 721         | 9         | 272                       | 7709            | 8436         | 727         | 9         | 272                       |
|        | Madhya Pradesh    | 4815                    | 6357         | 1542        | 32        | 205                       | 4815            | 6356         | 1541        | 32        | 205                       |
|        | Chhattisgarh      | 2108                    | 2166         | 58          | 3         | 70                        | 2081            | 2133         | 52          | 3         | 69                        |
|        | Maharashtra       | 11099                   | 11480        | 381         | 3         | 370                       | 11003           | 11472        | 470         | 4         | 370                       |
|        | Goa               | 234                     | 264          | 30          | 13        | 9                         | 234             | 264          | 30          | 13        | 9                         |
|        | D&D               | 170                     | 189          | 20          | 12        | 6                         | 170             | 189          | 20          | 12        | 6                         |
|        | DNH               | 458                     | 479          | 21          | 5         | 15                        | 458             | 478          | 21          | 5         | 15                        |
|        | ESIL              | 218                     | 211          | -7          | -3        | 7                         | 218             | 210          | -7          | -3        | 7                         |
|        | <b>TOTAL</b>      | <b>26818</b>            | <b>29584</b> | <b>2766</b> | <b>10</b> | <b>986</b>                | <b>26687</b>    | <b>29540</b> | <b>2853</b> | <b>11</b> | <b>953</b>                |
| SR     | Andhra Pradesh    | 4193                    | 4075         | -118        | -3        | 131                       | 4192            | 4074         | -118        | -3        | 131                       |
|        | Telangana         | 4070                    | 3965         | -105        | -3        | 128                       | 3970            | 3965         | -5          | 0         | 128                       |
|        | KPTCL             | 5687                    | 5871         | 184         | 3         | 189                       | 5531            | 5668         | 137         | 2         | 183                       |
|        | KSEB              | 1845                    | 1914         | 69          | 4         | 62                        | 1829            | 1912         | 83          | 5         | 62                        |
|        | TNEB              | 7913                    | 8151         | 238         | 3         | 263                       | 7649            | 8150         | 501         | 7         | 263                       |
|        | PONDY             | 172                     | 182          | 10          | 6         | 6                         | 172             | 181          | 9           | 5         | 6                         |
|        | <b>TOTAL</b>      | <b>23880</b>            | <b>24158</b> | <b>278</b>  | <b>1</b>  | <b>805</b>                | <b>23343</b>    | <b>23951</b> | <b>608</b>  | <b>3</b>  | <b>773</b>                |
| ER     | Bihar             | 1338                    | 2226         | 888         | 66        | 72                        | 1666            | 2034         | 368         | 22        | 66                        |
|        | JSEB              | 700                     | 765          | 65          | 9         | 25                        | 663             | 721          | 58          | 9         | 23                        |
|        | DVC               | 1720                    | 1862         | 142         | 8         | 60                        | 1708            | 1825         | 117         | 7         | 59                        |
|        | Odisha            | 2340                    | 2148         | -192        | -8        | 69                        | 1972            | 2148         | 176         | 9         | 69                        |
|        | West Bengal       | 3462                    | 3632         | 170         | 5         | 117                       | 3067            | 3619         | 552         | 18        | 117                       |
|        | Sikkim            | 32                      | 36           | 4           | 11        | 1                         | 32              | 36           | 4           | 11        | 1                         |
|        | <b>TOTAL</b>      | <b>9592</b>             | <b>10669</b> | <b>1077</b> | <b>11</b> | <b>356</b>                | <b>9108</b>     | <b>10383</b> | <b>1275</b> | <b>14</b> | <b>335</b>                |
| NER    | Arunachal Pradesh | 60                      | 62           | 2           | 3         | 2                         | 60              | 62           | 2           | 3         | 2                         |
|        | Assam             | 680                     | 683          | 3           | 0         | 22                        | 602             | 629          | 26          | 4         | 20                        |
|        | Manipur           | 72                      | 79           | 7           | 10        | 3                         | 71              | 79           | 8           | 12        | 3                         |
|        | MeSEB             | 192                     | 195          | 3           | 2         | 6                         | 188             | 190          | 2           | 1         | 6                         |
|        | Mizoram           | 43                      | 49           | 6           | 14        | 2                         | 42              | 49           | 7           | 16        | 2                         |
|        | Nagaland          | 61                      | 67           | 6           | 10        | 2                         | 59              | 66           | 8           | 14        | 2                         |
|        | Tripura           | 92                      | 53           | -39         | -42       | 2                         | 90              | 52           | -38         | -42       | 2                         |
|        | <b>TOTAL</b>      | <b>1199</b>             | <b>1188</b>  | <b>-11</b>  | <b>-1</b> | <b>40</b>                 | <b>1111</b>     | <b>1127</b>  | <b>16</b>   | <b>1</b>  | <b>36</b>                 |
|        | <b>ALL INDIA</b>  | <b>86776</b>            | <b>93090</b> | <b>6314</b> | <b>7</b>  | <b>3103</b>               | <b>85867</b>    | <b>91169</b> | <b>5303</b> | <b>6</b>  | <b>2941</b>               |

**10. DEMAND COMPARISON OF January 2016 Vs January 2015**

| REGION | STATE             | Peak Requirement (MW) |        |            |          | Peak Met (MW) |        |            |          |
|--------|-------------------|-----------------------|--------|------------|----------|---------------|--------|------------|----------|
|        |                   | Jan-15                | Jan-16 | Difference | % Change | Jan-15        | Jan-16 | Difference | % Change |
| NR     | Chandigarh        | 252                   | 248    | -4         | -1.6     | 252           | 248    | -4         | -1.6     |
|        | Delhi             | 4210                  | 4106   | -104       | -2.5     | 4405          | 4077   | -328       | -7.4     |
|        | Haryana           | 6720                  | 7045   | 325        | 4.8      | 6720          | 7045   | 325        | 4.8      |
|        | H.P.              | 1417                  | 1480   | 63         | 4.4      | 1403          | 1480   | 77         | 5.5      |
|        | J&K               | 2393                  | 2544   | 151        | 6.3      | 2006          | 2158   | 152        | 7.6      |
|        | Punjab            | 5296                  | 6130   | 834        | 15.7     | 5296          | 6130   | 834        | 15.7     |
|        | Rajasthan         | 10179                 | 10665  | 486        | 4.8      | 10179         | 10605  | 426        | 4.2      |
|        | U.P.              | 12024                 | 12946  | 922        | 7.7      | 11644         | 11626  | -18        | -0.2     |
|        | Uttarakhand       | 1942                  | 2034   | 92         | 4.7      | 1942          | 2034   | 92         | 4.7      |
|        | NFF/Railway       | 100                   | 98     | -2         | -2.0     | 100           | 98     | -2         | -2.0     |
| WR     | Gujarat           | 12457                 | 13263  | 806        | 6        | 12418         | 13254  | 836        | 6.7      |
|        | Madhya Pradesh    | 9812                  | 11019  | 1207       | 12       | 9766          | 11019  | 1253       | 12.8     |
|        | Chhattisgarh      | 3372                  | 3527   | 155        | 5        | 3269          | 3622   | 353        | 10.8     |
|        | Maharashtra       | 19006                 | 18647  | -359       | -2       | 18408         | 18634  | 226        | 1.2      |
|        | Goa               | 393                   | 427    | 34         | 9        | 393           | 427    | 34         | 8.7      |
|        | D&D               | 271                   | 299    | 28         | 10.3     | 271           | 299    | 28         | 10.3     |
|        | DNH               | 672                   | 694    | 22         | 3.3      | 672           | 694    | 22         | 3.3      |
|        | ESIL              | 440                   | 599.61 | 160        | 36.3     | 440           | 599.61 | 160        | 36.3     |
| SR     | Andhra Pradesh    | 6392                  | 6863   | 471        | 7.4      | 6392          | 6850   | 458        | 7.2      |
|        | Telangana         | 6870                  | 6359   | -511       | -7.4     | 6682          | 6348   | -334       | -5.0     |
|        | KPTCL             | 9481                  | 9717   | 236        | 2.5      | 9175          | 9137   | -38        | -0.4     |
|        | KSEB              | 3545                  | 3545   | 0          | 0.0      | 3417          | 3545   | 128        | 3.7      |
|        | TNEB              | 12901                 | 13576  | 675        | 5.2      | 12149         | 13576  | 1427       | 11.7     |
|        | PONDY             | 319                   | 318    | -1         | -0.3     | 314           | 318    | 4          | 1.3      |
| ER     | Bihar             | 2570                  | 3500   | 930        | 36.2     | 2734          | 3422   | 688        | 25.2     |
|        | JSEB              | 1050                  | 1161   | 111        | 10.6     | 1067          | 1161   | 94         | 8.8      |
|        | DVC               | 2770                  | 2830   | 60         | 2.2      | 2630          | 2707   | 77         | 2.9      |
|        | Odisha            | 3720                  | 3935   | 215        | 5.8      | 3558          | 3935   | 377        | 10.6     |
|        | West Bengal       | 6670                  | 6686   | 16         | 0.2      | 6933          | 6665   | -268       | -3.9     |
|        | Sikkim            | 106                   | 85     | -21        | -19.8    | 106           | 85     | -21        | -19.8    |
| NER    | Arunachal Pradesh | 120                   | 118    | -2         | -1.8     | 115           | 117    | 2          | 1.4      |
|        | Assam             | 1381                  | 1341   | -40        | -2.9     | 1220          | 1330   | 110        | 9.0      |
|        | Manipur           | 150                   | 168    | 18         | 11.7     | 144           | 166    | 22         | 15.3     |
|        | MeSEB             | 371                   | 379    | 8          | 2.3      | 343           | 377    | 34         | 9.9      |
|        | Mizoram           | 90                    | 103    | 12         | 13.8     | 88            | 101    | 13         | 14.8     |
|        | Nagaland          | 130                   | 122    | -8         | -6.4     | 123           | 122    | -1         | -0.8     |
|        | Tripura           | 246                   | 220    | -26        | -10.4    | 210           | 220    | 10         | 4.8      |



**11. SCHEDULE AND DRAWAL OF CONSTITUENTS - Jan 2016**

| 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        | 113.11        | 128.52             | 15.41                                | 13.63   | 3.65              | 4.15                   | 0.50                                     |
|        | Delhi             | 1520.03       | 1508.20            | -11.83                               | -0.78   | 49.03             | 48.65                  | -0.38                                    |
|        | Haryana           | 2023.44       | 2018.20            | -5.24                                | -0.26   | 65.27             | 65.10                  | -0.17                                    |
|        | H.P.              | 656.43        | 672.29             | 15.85                                | 2.42    | 21.18             | 21.69                  | 0.51                                     |
|        | J&K               | 1175.29       | 1165.58            | -9.71                                | -0.83   | 37.91             | 37.60                  | -0.31                                    |
|        | Punjab            | 1241.06       | 1168.31            | -72.75                               | -5.86   | 40.03             | 37.69                  | -2.35                                    |
|        | Rajasthan         | 2192.34       | 2215.22            | 22.88                                | 1.04    | 70.72             | 71.46                  | 0.74                                     |
|        | U.P.              | 2989.71       | 3053.10            | 63.39                                | 2.12    | 96.44             | 98.49                  | 2.04                                     |
|        | Uttarakhand       | 754.13        | 803.47             | 49.35                                | 6.54    | 24.33             | 25.92                  | 1.59                                     |
|        | NFF/Railway       | 53.12         | 65.34              | 12.22                                | 23.00   | 1.71              | 2.11                   | 0.39                                     |
| WR     | Gujarat           | 1897.71       | 1996.16            | 98.45                                | 5.19    | 61.22             | 64.39                  | 3.18                                     |
|        | Madhya Pradesh    | 3642.97       | 3593.72            | -49.25                               | -1.35   | 117.52            | 115.93                 | -1.59                                    |
|        | Maharashtra       | 2656.20       | 2678.50            | 22.31                                | 0.84    | 85.68             | 86.40                  | 0.72                                     |
|        | Chhattisgarh      | 839.30        | 819.21             | -20.09                               | -2.39   | 27.07             | 26.43                  | -0.65                                    |
|        | Goa               | 231.11        | 225.28             | -5.83                                | -2.52   | 7.46              | 7.27                   | -0.19                                    |
|        | D&D               | 187.00        | 188.84             | 1.84                                 | 0.98    | 6.03              | 6.09                   | 0.06                                     |
|        | D&NH              | 484.62        | 482.07             | -2.54                                | -0.52   | 15.63             | 15.55                  | -0.08                                    |
|        | ESIL              | 242.23        | 260.61             | 18.38                                | 7.59    | 7.81              | 8.41                   | 0.59                                     |
| SR     | Andhra Pradesh    | 448.34        | 425                | -23.14                               | -5.16   | 14.46             | 13.72                  | -0.75                                    |
|        | Telangana         | 2681.72       | 2665.85            | -15.87                               | -0.59   | 86.51             | 86.00                  | -0.51                                    |
|        | KPTCL             | 1307.53       | 1363.90            | 56.37                                | 4.31    | 42.18             | 44.00                  | 1.82                                     |
|        | KSEB              | 1454.48       | 1494.48            | 40.00                                | 2.75    | 46.92             | 48.21                  | 1.29                                     |
|        | TNEB              | 3605.25       | 3747.21            | 141.96                               | 3.94    | 116.30            | 120.88                 | 4.58                                     |
|        | PONDICHERRY       | 189.30        | 181.36             | -7.94                                | -4.19   | 6.11              | 5.85                   | -0.26                                    |
| ER     | Bihar             | 1931.72       | 1932               | -0.03                                | 0.00    | 62.31             | 62.31                  | 0.00                                     |
|        | JSEB              | 361.72        | 376                | 13.87                                | 3.83    | 11.67             | 12.12                  | 0.45                                     |
|        | DVC               | -514.78       | -522               | -6.82                                | 1.32    | -16.61            | -16.83                 | -0.22                                    |
|        | GRIDCO            | 596.66        | 651                | 54.14                                | 9.07    | 19.25             | 20.99                  | 1.75                                     |
|        | WBSEB             | 837.62        | 862                | 24.45                                | 2.92    | 27.02             | 27.81                  | 0.79                                     |
|        | Sikkim            | 39.22         | 36                 | -3.64                                | -9.28   | 1.27              | 1.15                   | -0.12                                    |
| NER    | Arunachal Pradesh | 45.01         | 61.57              | 16.57                                | 36.81   | 1.45              | 1.99                   | 0.53                                     |
|        | Assam             | 472.48        | 490.63             | 18.15                                | 3.84    | 15.24             | 15.83                  | 0.59                                     |
|        | Manipur           | 74.11         | 79.27              | 5.16                                 | 6.96    | 2.39              | 2.56                   | 0.17                                     |
|        | MeSEB             | 157.83        | 155.28             | -2.55                                | -1.62   | 5.09              | 5.01                   | -0.08                                    |
|        | Mizoram           | 34.59         | 47.56              | 12.97                                | 37.49   | 1.12              | 1.53                   | 0.42                                     |
|        | Nagaland          | 49.80         | 62.66              | 12.85                                | 25.81   | 1.61              | 2.02                   | 0.41                                     |
|        | Tripura           | -25.27        | -9.91              | 15.36                                | -60.80  | -0.82             | -0.32                  | 0.50                                     |

**12. INTER REGIONAL EXCHANGES 2015-16**

|  | April'15       | May'15         | June'15        | July'15        | Aug'15         | Sep'15         | Oct'15         | Nov'15         | Dec'15         | Jan'16         | Fin. Year 2015-16 Till Jan2106 |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|
| Name of Line                               |                |                |                |                |                |                |                |                |                |                |                                |
| <b>Import of NR from WR (WR-NR)</b>        |                |                |                |                |                |                |                |                |                |                |                                |
| WR - NR 765 kV Gwalior - Agra D/C          | 1166.87        | 1164.39        | 1284.75        | 1186.78        | 1306.76        | 1677.34        | 1742.38        | 1714.87        | 2039.18        | 1834.99        | 15118.28                       |
| WR-NR 765 kV Gwalior - Phagi D/C           |                |                |                |                | 406.85         | 663.65         | 613.54         | 664.81         | 786.65         | 679.81         | 3815.29                        |
| WR - NR HVDC Vindhyachal                   | 67.20          | 32.23          | 130.54         | 111.79         | 96.42          | 46.36          | 75.48          | 29.58          | 73.02          | 74.56          | 737.16                         |
| WR - NR 400 kV Zerda Kankroli              | 0.00           | 0.00           | 0.00           | 82.40          | 0.00           | 5.09           | 7.04           | 0.00           | 0.00           | 1.20           | 95.74                          |
| WR - NR 400 kV Zerda Bhinmal               | 0.00           | 1.87           | 0.00           | 0.00           | 0.00           | 27.25          | 19.37          | 3.93           | 6.16           | 26.86          | 85.44                          |
| WR - NR 220 kV Badod - Kota/ Modak         | 1.05           | 3.06           | 2.34           | 9.69           | 7.22           | 7.64           | 6.16           | 0.24           | 1.50           | 9.75           | 48.63                          |
| WR - NR 220 kV Auraiya - Malanpur/Mehgaon  | 1.07           | 0.00           | 0.00           | 1.34           | 0.00           | 2.48           | 0.00           | 0.00           | 0.00           | 0.00           | 4.89                           |
| WR - NR 400 kV Vindhyachal-Rihand          | 330.03         | 339.28         | 252.08         | 242.90         | 337.38         | 314.28         | 18.12          | 0.00           | 0.00           | 2.58           | 1836.65                        |
| WR - NR HVDC Mundra - Mohindergarh         | 1674.31        | 1705.73        | 1708.08        | 1470.90        | 1473.88        | 1668.84        | 1677.32        | 1440.79        | 1528.89        | 1735.83        | 16084.57                       |
| <b>Total WR - NR</b>                       | <b>3240.52</b> | <b>3246.55</b> | <b>3377.78</b> | <b>3105.80</b> | <b>3628.50</b> | <b>4412.93</b> | <b>4159.41</b> | <b>3854.20</b> | <b>4435.39</b> | <b>4365.57</b> | <b>37826.65</b>                |
| <b>Import of NR from ER (ER-NR)</b>        |                |                |                |                |                |                |                |                |                |                |                                |
| ER - NR 765 kV Sasaram - Fatehpur          | 3.99           | 121.43         | 35.00          | 58.99          | 48.03          | 31.74          | 4.49           | 34.53          | 13.80          | 0.00           | 351.98                         |
| ER - WR 765 kV Gaya - Fatehpur             | 57.99          | 62.01          | 73.50          | 136.28         | 134.94         | 127.24         | 68.27          | 114.68         | 133.63         | 100.55         | 1009.09                        |
| ER - WR 765 kV Gaya - Balia                | 16.86          | 61.19          | 42.42          | 44.25          | 60.92          | 99.34          | 69.45          | 106.27         | 146.64         | 118.73         | 766.05                         |
| ER-NR 400 kV Patna - Balia 2xD/C           | 156.63         | 294.16         | 192.61         | 191.35         | 183.30         | 241.87         | 209.48         | 260.48         | 353.01         | 319.84         | 2402.73                        |
| ER - NR 400 kV Muzaffarpur - Gorakhpur D/C | 22.81          | 182.87         | 185.29         | 292.00         | 304.63         | 293.43         | 124.43         | 165.18         | 46.47          | 0.00           | 1617.10                        |
| ER - NR 400 kV Biharshariff - Balia D/C    | 5.85           | 75.34          | 68.43          | 97.42          | 101.63         | 135.15         | 35.42          | 78.19          | 31.17          | 0.00           | 628.59                         |
| ER - NR 400 kV Barh - G'pur D/C            |                |                | 157.93         | 156.20         | 151.31         | 158.29         | 183.25         | 238.28         | 296.67         | 309.39         | 1651.32                        |
| ER - NR HVDC Sasaram ( Bypass)             | 162.04         | 77.34          | 220.42         | 223.96         | 260.28         | 272.08         | 261.28         | 115.16         | 183.06         | 244.04         | 2019.65                        |
| ER - NR 220 kV Pusauli - Sahupuri          | 102.74         | 123.30         | 98.01          | 100.55         | 100.71         | 87.52          | 104.74         | 87.57          | 89.25          | 80.52          | 974.92                         |
| ER - NR 132 kV Sahupuri - Karamnasa        | 7.68           | 4.85           | 6.66           | 6.29           | 7.68           | 12.48          | 12.39          | 13.03          | 4.64           | 9.12           | 84.82                          |
| ER - NR 132 kV Rihand - Son Nagar          | 0.00           | 0.00           | 0.00           | 0.49           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.49                           |
| <b>Total ER-NR</b>                         | <b>536.58</b>  | <b>1002.49</b> | <b>1080.28</b> | <b>1307.78</b> | <b>1353.42</b> | <b>1459.13</b> | <b>1073.19</b> | <b>1213.35</b> | <b>1298.33</b> | <b>1182.18</b> | <b>11506.74</b>                |
| <b>Import of NR from NER (NER-NR)</b>      |                |                |                |                |                |                |                |                |                |                |                                |
| NER-NR HVDC Biswanath Chariali - Agra      |                |                |                |                |                | 2.54           | 47.99          | 54.59          | 0.00           | 185.04         | 290.16                         |
| <b>Total NER - NR</b>                      | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>2.54</b>    | <b>47.99</b>   | <b>54.59</b>   | <b>0.00</b>    | <b>185.04</b>  | <b>290.16</b>                  |
| <b>Export of NR to WR (NR-WR)</b>          |                |                |                |                |                |                |                |                |                |                |                                |
| NR - WR 765 kV Gwalior - Agra D/C          | 0.00           | 0.00           | 0.00           | 0.14           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.14                           |
| NR - WR 765 kV Gwalior - Phagi D/C         |                |                |                |                | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                           |
| NR - WR HVDC Vindhyachal                   | 94.41          | 90.93          | 36.10          | 64.31          | 49.48          | 21.18          | 120.34         | 79.88          | 91.14          | 76.96          | 724.72                         |
| NR - WR 400 kV Zerda Kankroli              | 174.57         | 155.75         | 103.03         | 117.93         | 117.89         | 42.27          | 49.02          | 73.24          | 89.80          | 61.81          | 985.31                         |
| NR - WR 400 kV Zerda Bhinmal               | 135.49         | 107.23         | 70.40          | 102.81         | 100.40         | 24.06          | 27.93          | 19.32          | 34.30          | 9.57           | 631.52                         |
| NR - WR 220 kV Badod - Kota/ Modak         | 36.54          | 20.87          | 14.34          | 10.96          | 8.15           | 16.77          | 37.97          | 53.15          | 30.02          | 17.72          | 246.49                         |
| NR - WR 220 kV Auraiya - Malanpur/Mehgaon  | 29.00          | 15.48          | 1.03           | 17.80          | 36.20          | 20.43          | 53.29          | 57.46          | 40.59          | 36.97          | 308.25                         |
| NR-WR 400 kV Rihand-Vindhyachal            | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 2.02           | 2.02                           |
| NR - WR HVDC Mundra - Mohindergarh         | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                           |
| <b>Total NR - WR</b>                       | <b>470.02</b>  | <b>390.26</b>  | <b>224.89</b>  | <b>313.96</b>  | <b>312.12</b>  | <b>124.71</b>  | <b>288.53</b>  | <b>283.04</b>  | <b>285.86</b>  | <b>205.05</b>  | <b>2898.44</b>                 |
| <b>Export of NR to ER (NR-ER)</b>          |                |                |                |                |                |                |                |                |                |                |                                |
| NR - ER 765 kV Sasaram - Fatehpur          | 53.29          | 2.60           | 20.49          | 7.44           | 13.86          | 9.53           | 52.09          | 9.53           | 18.70          | 99.69          | 287.20                         |
| NR - ER 765 kV Gaya - Fatehpur             | 0.62           | 0.00           | 0.37           | 0.00           | 0.00           | 0.00           | 1.23           | 0.00           | 0.00           | 0.78           | 3.01                           |
| NR - ER 765 kV Gaya - Balia                | 1.75           | 0.61           | 0.36           | 3.34           | 0.00           | 3.63           | 0.03           | 0.00           | 0.00           | 0.00           | 9.71                           |
| NR - ER 400 kV Patna - Balia 2xD/C         | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                           |
| NR - ER 400 kV Muzaffarpur - Gorakhpur D/C | 9.19           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 5.22           | 0.95           | 40.88          | 284.56         | 340.79                         |
| NR - ER 400 kV Biharshariff - Balia D/C    | 30.97          | 3.54           | 4.97           | 0.00           | 0.00           | 1.55           | 9.08           | 1.26           | 6.50           | 106.09         | 163.96                         |
| ER - NR 400 kV Barh - G'pur D/C            |                |                | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00                           |
| NR - ER HVDC Sasaram ( Bypass)             | 12.49          | 155.54         | 18.18          | 5.78           | 0.00           | 0.00           | 0.00           | 33.07          | 12.19          | 3.93           | 241.19                         |
| NR - ER 220 kV Pusauli - Sahupuri          | 7.79           | 0.00           | 2.95           | 4.61           | 4.00           | 5.39           | 0.00           | 0.00           | 2.88           | 3.32           | 30.93                          |
| NR - ER 132 kV Sahupuri - Karamnasa        | 2.40           | 0.50           | 0.96           | 0.48           | 0.48           | 1.44           | 0.48           | 0.96           | 4.92           | 0.96           | 13.58                          |
| NR - ER 132 kV Rihand - Son Nagar          | 22.33          | 23.85          | 23.95          | 16.23          | 25.28          | 19.42          | 18.03          | 17.86          | 16.06          | 16.86          | 199.88                         |
| <b>Total NR - ER</b>                       | <b>140.82</b>  | <b>186.63</b>  | <b>72.23</b>   | <b>37.88</b>   | <b>43.62</b>   | <b>40.95</b>   | <b>86.15</b>   | <b>63.62</b>   | <b>102.14</b>  | <b>516.19</b>  | <b>1290.24</b>                 |
| <b>Export of NR to NER (NER-NR)</b>        |                |                |                |                |                |                |                |                |                |                |                                |
| NR-NER HVDC Biswanath Chariali - Agra      |                |                |                |                |                | 1.96           | 0.00           | 245.40         | 357.31         | 104.79         | 709.46                         |
| <b>Total NR - NER</b>                      | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>0.00</b>    | <b>1.96</b>    | <b>0.00</b>    | <b>245.40</b>  | <b>357.31</b>  | <b>104.79</b>  | <b>709.46</b>                  |

|   |                |                |                |                |                |                |                |                |                |                |                 |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| <b>Export of WR to ER (WR-ER)</b>             |                |                |                |                |                |                |                |                |                |                |                 |
| WR - ER 765 kV Ranchi - Dharamjaygarh         | 1.94           | 17.79          | 10.97          | 12.35          | 79.83          | 96.71          | 54.65          | 0.32           | 0.00           | 3.48           | <b>278.03</b>   |
| WR - ER 400 kV Sipat - Ranchi D/C             | 1.94           | 21.14          | 60.56          | 26.05          | 126.20         | 176.46         | 178.43         | 116.19         | 116.73         | 146.00         | <b>969.70</b>   |
| WR - ER 400 kV Raigarh - Sterlite D/C         | 0.12           | 0.36           | 4.48           | 6.18           | 71.00          | 88.77          | 93.74          | 40.86          | 30.61          | 42.49          | <b>378.59</b>   |
| WR - ER 765 kV Dharamjaygarh - Jharsuguda D/C | 7.73           | 25.18          | 31.06          | 32.79          | 37.11          | 18.00          | 0.47           | 0.00           | 0.00           | 0.00           | <b>152.34</b>   |
| WR - ER 400 kV Raigarh - Jharsuguda D/C       | 0.00           | 0.00           | 2.78           | 6.35           | 83.20          | 180.04         | 243.76         | 155.47         | 134.43         | 145.43         | <b>951.46</b>   |
| WR - ER 220 kV Korba - Budhipadar D/C         | 0.25           | 5.70           | 0.99           | 4.62           | 3.23           | 1.96           | 1.62           | 1.10           | 1.21           | 51.77          | <b>72.47</b>    |
| WR - ER 220 kV Raigarh - Budhipadar           | 0.82           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | <b>0.82</b>     |
| <b>Total WR - ER</b>                          | <b>12.80</b>   | <b>70.17</b>   | <b>110.84</b>  | <b>88.34</b>   | <b>400.57</b>  | <b>561.94</b>  | <b>572.67</b>  | <b>313.94</b>  | <b>282.97</b>  | <b>389.17</b>  | <b>2803.40</b>  |
| <b>Import of WR from ER (ER - WR)</b>         |                |                |                |                |                |                |                |                |                |                |                 |
| ER - WR 765 kV Ranchi - Dharamjaygarh         | 2.18           | 17.23          | 6.16           | 17.76          | 2.08           | 1.81           | 18.53          | 27.51          | 66.41          | 42.60          | <b>202.28</b>   |
| ER - WR 400 kV Sipat - Ranchi D/C             | 2.66           | 11.84          | 1.68           | 5.17           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | <b>21.36</b>    |
| ER - WR 400 kV Raigarh - Sterlite D/C         | 232.49         | 308.83         | 244.90         | 150.11         | 57.24          | 131.52         | 96.60          | 105.40         | 63.82          | 95.21          | <b>1486.12</b>  |
| ER - WR 400 kV Dharamjaygarh - Jharsuguda D/C | 63.81          | 97.48          | 79.08          | 41.61          | 37.07          | 94.38          | 255.57         | 285.74         | 342.24         | 382.87         | <b>1679.85</b>  |
| ER - WR 400 kV Raigarh - Jharsuguda D/C       | 28.29          | 43.07          | 19.12          | 56.28          | 0.26           | 1.40           | 0.00           | 0.00           | 0.00           | 0.00           | <b>148.42</b>   |
| ER - WR 220 kV Korba - Budhipadar D/C         | 24.54          | 20.37          | 61.78          | 43.52          | 40.39          | 20.63          | 13.77          | 14.91          | 16.47          | 2.29           | <b>258.67</b>   |
| ER - WR 220 kV Raigarh - Budhipadar           | 73.09          | 54.74          | 0.00           | 18.17          | 83.28          | 69.91          | 77.28          | 71.61          | 68.53          | 18.97          | <b>535.56</b>   |
| <b>Total ER - WR</b>                          | <b>427.06</b>  | <b>553.56</b>  | <b>412.72</b>  | <b>332.63</b>  | <b>220.33</b>  | <b>319.65</b>  | <b>461.75</b>  | <b>505.17</b>  | <b>557.46</b>  | <b>541.95</b>  | <b>4332.26</b>  |
| <b>Export of ER to NER</b>                    |                |                |                |                |                |                |                |                |                |                |                 |
| ER - NER 400 kV Binaguri - Bongaigaon 2xD/C   | 206.56         | 212.27         | 54.30          | 0.33           | 5.24           | 9.12           | 96.72          | 49.33          | 13.73          | 385.78         | <b>1033.37</b>  |
| ER - NER 220 kV Birpara - Salakati D/C        | 29.33          | 52.31          | 39.44          | 35.76          | 39.66          | 41.51          | 49.72          | 7.63           | 1.55           | 37.64          | <b>334.55</b>   |
| <b>Total ER - NER</b>                         | <b>235.90</b>  | <b>264.59</b>  | <b>93.74</b>   | <b>36.09</b>   | <b>44.90</b>   | <b>50.63</b>   | <b>146.44</b>  | <b>56.96</b>   | <b>15.28</b>   | <b>423.41</b>  | <b>1367.92</b>  |
| <b>Import of ER from NER (NER - ER)</b>       |                |                |                |                |                |                |                |                |                |                |                 |
| NER - ER 400 kV Binaguri - Bongaigaon 2xD/C   | 0.00           | 0.00           | 46.09          | 116.25         | 188.28         | 171.37         | 34.22          | 132.31         | 67.57          | 7.17           | <b>763.26</b>   |
| NER - ER 220 kV Birpara - Salakati D/C        | 0.00           | 0.00           | 0.10           | 2.12           | 0.92           | 0.00           | 0.18           | 10.09          | 12.09          | 3.40           | <b>28.90</b>    |
| <b>Total NER - ER</b>                         | <b>0.00</b>    | <b>0.00</b>    | <b>46.19</b>   | <b>118.37</b>  | <b>189.20</b>  | <b>171.37</b>  | <b>34.40</b>   | <b>142.39</b>  | <b>79.66</b>   | <b>10.57</b>   | <b>792.16</b>   |
| <b>Export of ER to SR (ER - SR)</b>           |                |                |                |                |                |                |                |                |                |                |                 |
| ER - SR HVDC Gazuwaka                         | 443.51         | 469.85         | 441.50         | 526.03         | 500.04         | 486.72         | 519.36         | 452.31         | 469.69         | 466.76         | <b>4775.78</b>  |
| ER - SR HVDC Talchar - Kolar                  | 1360.36        | 1428.22        | 1193.46        | 1441.16        | 1443.65        | 1359.19        | 1482.82        | 1336.36        | 1344.02        | 1126.22        | <b>13515.46</b> |
| <b>Total ER - SR</b>                          | <b>1803.87</b> | <b>1898.08</b> | <b>1634.95</b> | <b>1967.19</b> | <b>1943.69</b> | <b>1845.92</b> | <b>2002.19</b> | <b>1788.67</b> | <b>1813.71</b> | <b>1592.97</b> | <b>18291.24</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           | 0.00           | 0.00           | 0.00           | 0.00           | <b>0.00</b>     |
| SR - ER HVDC Talchar - Kolar                  | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | <b>0.00</b>     |
| <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>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                       | 708.30         | 709.31         | 695.57         | 715.62         | 710.55         | 690.39         | 727.48         | 649.77         | 617.13         | 578.27         | <b>6802.38</b>  |
| WR - SR 765 kV Sholapur - Raichur             | 263.68         | 315.71         | 304.74         | 343.65         | 308.18         | 249.03         | 740.02         | 757.35         | 932.77         | 979.53         | <b>5194.65</b>  |
| WR - SR 400KV Kolhapur-Kudgi D/C              | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 25.15          | 95.61          | 40.37          | <b>161.13</b>   |
| <b>Total WR - SR</b>                          | <b>971.98</b>  | <b>1025.03</b> | <b>1000.31</b> | <b>1059.27</b> | <b>1018.72</b> | <b>939.42</b>  | <b>1467.49</b> | <b>1432.26</b> | <b>1645.52</b> | <b>1598.17</b> | <b>12158.17</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           | 0.00           | 0.00           | 0.00           | 0.00           | <b>0.00</b>     |
| SR - WR 765 kV Raichur - Sholapur             | 17.71          | 10.54          | 11.13          | 7.96           | 11.62          | 19.97          | 6.01           | 3.68           | 0.00           | 0.00           | <b>88.62</b>    |
| SR - WR 400KV Kolhapur-Kudgi D/C              | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 0.00           | 3.09           | 7.12           | <b>10.22</b>    |
| <b>Total SR - WR</b>                          | <b>17.71</b>   | <b>10.54</b>   | <b>11.13</b>   | <b>7.96</b>    | <b>11.62</b>   | <b>19.97</b>   | <b>6.01</b>    | <b>3.68</b>    | <b>3.09</b>    | <b>7.12</b>    | <b>98.84</b>    |
| <b>TOTAL ALL INDIA</b>                        | <b>7857</b>    | <b>8648</b>    | <b>8065</b>    | <b>8375</b>    | <b>9167</b>    | <b>9951</b>    | <b>10346</b>   | <b>9957</b>    | <b>10877</b>   | <b>11122</b>   | <b>94365.69</b> |

| Date      | 12.1 Import of NR from WR & ER during Jan 2016 |  |                           |   |  |   |   |                                       |                                      |                  |  |   |                                 |   |  |   |   |  |  |   |  |                                |   |              |
|-----------|--|--|---------------------------|---|--|---|---|---------------------------------------|--------------------------------------|------------------|--|---|---------------------------------|---|--|---|---|--|--|---|--|--------------------------------|---|--------------|
|           | Import of NR from WR (WR-NR)                   |  |                           |   |  |   |   |                                       |                                      |                  | Import of NR from ER (ER-NR)               |   |                                 |   |  |   |   |  |  |   |  | Import of NR from NER (NER-NR) |   |              |
|           | WR - NR<br>765 kV<br>Gwalior -<br>Agra D/C     | WR-NR<br>765 kV<br>Gwalior-<br>Phagi 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>Vindhaychal | WR - NR<br>HVDC<br>Mundra -<br>Mgarh | 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>765 kV<br>Gaya Balla | ER-NR 400<br>kV Patna -<br>Balia<br>2x2/C | ER - NR 400<br>kV<br>Muzaffarpur<br>- G' pur D/C | ER - NR<br>400 kV<br>B'shariff -<br>Balia D/C | ER - NR<br>400 kV<br>Barh -<br>G' pur D/C | ER - NR<br>HVDC<br>Sasaram<br>(Bypass) | ER - NR<br>220 kV<br>Pusaull -<br>Sahupuri | ER - NR<br>132 kV<br>Sahupuri -<br>K'nasa | ER - NR<br>132 kV<br>Rihand -<br>Son Nagar | Total ER -<br>NR               | NER-NR HVDC<br>Biswanath<br>Chariali - Agra | Total NER-NR |
| 1-Jan-16  | 66.67  | 25.54                                    | 2.82                      | 0.00                                    | 0.21                                   | 0.71  | 0.00  | 0.00                                  | 60.45                                | 156.40           | 0.00                                       | 4.77                                    | 4.22                            | 10.69                                     | 0.00   | 0.00  | -9.69                                     | 8.96                                   | 3.19                                       | 0.00                                      | 0.00                                       | 22.15                          | 0.00  | 0.00         |
| 2-Jan-16  | 62.58  | 22.39                                    | 1.82                      | 0.00                                    | 0.21                                   | 0.58  | 0.00  | 0.00                                  | 60.45                                | 148.03           | 0.00                                       | 4.68                                    | 4.12                            | 10.59                                     | 0.00   | 0.00  | 8.73                                      | 8.96                                   | 2.59                                       | 0.00                                      | 0.00                                       | 39.66                          | 0.00  | 0.00         |
| 3-Jan-16  | 66.96  | 24.91                                    | 5.03                      | 0.00                                    | 1.55                                   | 0.49  | 0.00  | 0.00                                  | 57.05                                | 156.00           | 0.00                                       | 4.48                                    | 4.36                            | 9.85                                      | 0.00   | 0.00  | 10.11                                     | 8.24                                   | 3.01                                       | 0.00                                      | 0.00                                       | 40.06                          | 0.00  | 0.00         |
| 4-Jan-16  | 67.87  | 25.05                                    | 6.80                      | 0.00                                    | 1.29                                   | 0.36  | 0.00  | 0.00                                  | 57.43                                | 158.80           | 0.00                                       | 4.70                                    | 3.88                            | 10.75                                     | 0.00   | 0.00  | 9.94                                      | 8.97                                   | 3.60                                       | 0.00                                      | 0.00                                       | 41.84                          | 0.00  | 0.00         |
| 5-Jan-16  | 64.92  | 23.22                                    | 4.73                      | 0.00                                    | 0.11                                   | 0.14  | 0.00  | 0.00                                  | 60.34                                | 153.45           | 0.00                                       | 2.65                                    | 4.04                            | 10.09                                     | 0.00   | 0.00  | 10.88                                     | 8.89                                   | 3.69                                       | 0.00                                      | 0.00                                       | 40.24                          | 9.35  | 9.35         |
| 6-Jan-16  | 67.32  | 25.41                                    | 4.73                      | 0.00                                    | 0.11                                   | 0.63  | 0.00  | 0.00                                  | 60.43                                | 158.64           | 0.00                                       | 3.25                                    | 5.17                            | 10.09                                     | 0.00   | 0.00  | 10.88                                     | 8.86                                   | 3.74                                       | 0.48                                      | 0.00                                       | 42.46                          | 9.35  | 9.35         |
| 7-Jan-16  | 65.17  | 26.65                                    | 3.59                      | 0.13                                    | 2.63                                   | 0.73  | 0.00  | 0.00                                  | 56.51                                | 155.42           | 0.00                                       | 2.16                                    | 5.58                            | 10.27                                     | 0.00   | 0.00  | 11.17                                     | 8.71                                   | 3.64                                       | 0.00                                      | 0.00                                       | 41.52                          | 11.58                                       | 11.58        |
| 8-Jan-16  | 61.41  | 28.70                                    | 1.72                      | 1.07                                    | 3.50                                   | 1.52  | 0.00  | 0.00                                  | 41.98                                | 139.90           | 0.00                                       | 3.26                                    | 5.42                            | 13.99                                     | 0.00   | 0.00  | 12.20                                     | 8.95                                   | 3.42                                       | 0.00                                      | 0.00                                       | 47.23                          | 11.51                                       | 11.51        |
| 9-Jan-16  | 65.97  | 24.38                                    | 0.00                      | 0.00                                    | 1.41                                   | 0.67  | 0.00  | 0.00                                  | 56.52                                | 148.94           | 0.00                                       | 3.82                                    | 5.05                            | 15.27                                     | 0.00   | 0.00  | 12.22                                     | 8.87                                   | 2.37                                       | 0.00                                      | 0.00                                       | 47.60                          | 11.61                                       | 11.61        |
| 10-Jan-16 | 66.61  | 24.84                                    | 2.32                      | 0.00                                    | 1.62                                   | 0.28  | 0.00  | 0.00                                  | 56.34                                | 152.01           | 0.00                                       | 3.41                                    | 4.21                            | 13.93                                     | 0.00   | 0.00  | 14.34                                     | 5.67                                   | 0.00                                       | 0.00                                      | 0.00                                       | 41.56                          | 11.66                                       | 11.66        |
| 11-Jan-16 | 69.35  | 23.90                                    | 1.69                      | 0.00                                    | 1.86                                   | 0.40  | 0.00  | 0.00                                  | 55.09                                | 152.28           | 0.00                                       | 3.86                                    | 4.56                            | 15.43                                     | 0.00   | 0.00  | 13.12                                     | 4.05                                   | 0.00                                       | 0.00                                      | 0.00                                       | 41.01                          | 12.43                                       | 12.43        |
| 12-Jan-16 | 72.01  | 25.13                                    | 2.61                      | 0.00                                    | 1.80                                   | 0.25  | 0.00  | 0.00                                  | 51.98                                | 153.79           | 0.00                                       | 4.08                                    | 4.94                            | 14.94                                     | 0.00   | 0.00  | 12.26                                     | 8.95                                   | 0.00                                       | 0.00                                      | 0.00                                       | 45.17                          | 5.26  | 5.26         |
| 13-Jan-16 | 72.46  | 26.98                                    | 3.59                      | 0.00                                    | 1.19                                   | 0.24  | 0.00  | 0.00                                  | 58.11                                | 162.56           | 0.00                                       | 4.99                                    | 4.91                            | 15.29                                     | 0.00   | 0.00  | 12.28                                     | 8.85                                   | 0.17                                       | 0.00                                      | 0.00                                       | 46.48                          | 1.96  | 1.96         |
| 14-Jan-16 | 49.42  | 30.83                                    | 4.13                      | 0.00                                    | 1.83                                   | 0.00  | 0.00  | 0.00                                  | 56.97                                | 143.17           | 0.00                                       | 4.75                                    | 4.97                            | 16.76                                     | 0.00   | 0.00  | 13.72                                     | 8.95                                   | 2.98                                       | 0.00                                      | 0.00                                       | 52.12                          | 3.80  | 3.80         |
| 15-Jan-16 | 74.70  | 20.66                                    | 0.00                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 2.58                                  | 58.22                                | 156.17           | 0.00                                       | 2.53                                    | 4.07                            | 11.46                                     | 0.00   | 0.00  | 8.47                                      | 9.16                                   | 3.69                                       | 0.00                                      | 0.00                                       | 39.37                          | 8.67  | 8.67         |
| 16-Jan-16 | 44.09  | 23.49                                    | 0.40                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 53.74                                | 121.72           | 0.00                                       | 1.20                                    | 2.99                            | 8.11                                      | 0.00   | 0.00  | 9.28                                      | 8.93                                   | 3.19                                       | 0.00                                      | 0.00                                       | 33.69                          | 11.70                                       | 11.70        |
| 17-Jan-16 | 44.44  | 19.81                                    | 1.13                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 53.62                                | 119.00           | 0.00                                       | 0.07                                    | 3.18                            | 7.27                                      | 0.00   | 0.00  | 8.91                                      | 8.35                                   | 3.67                                       | 0.48                                      | 0.00                                       | 31.92                          | 13.96                                       | 13.96        |
| 18-Jan-16 | 41.82  | 15.79                                    | 1.54                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 53.88                                | 113.03           | 0.00                                       | 0.00                                    | 2.73                            | 6.95                                      | 0.00   | 0.00  | 9.24                                      | 6.65                                   | 3.44                                       | 0.48                                      | 0.00                                       | 29.49                          | 11.66                                       | 11.66        |
| 19-Jan-16 | 42.58  | 14.06                                    | 2.88                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 55.11                                | 114.63           | 0.00                                       | 2.39                                    | 1.87                            | 5.73                                      | 0.00   | 0.00  | 9.23                                      | 3.68                                   | 2.48                                       | 0.00                                      | 0.00                                       | 25.37                          | 11.56                                       | 11.56        |
| 20-Jan-16 | 41.86  | 14.40                                    | 4.16                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 49.14                                | 109.56           | 0.00                                       | 3.75                                    | 2.46                            | 3.91                                      | 0.00   | 0.00  | 7.59                                      | 2.75                                   | 2.63                                       | 0.00                                      | 0.00                                       | 23.08                          | 4.70  | 4.70         |
| 21-Jan-16 | 43.04  | 17.59                                    | 3.24                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 51.51                                | 115.38           | 0.00                                       | 2.94                                    | 1.90                            | 5.62                                      | 0.00   | 0.00  | 10.12                                     | 4.89                                   | 3.06                                       | 0.00                                      | 0.00                                       | 28.53                          | 9.71  | 9.71         |
| 22-Jan-16 | 47.51  | 18.45                                    | 3.68                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 57.87                                | 127.52           | 0.00                                       | 2.90                                    | 2.24                            | 7.96                                      | 0.00   | 0.00  | 8.26                                      | 4.73                                   | 1.19                                       | 0.00                                      | 0.00                                       | 27.27                          | 1.49  | 1.49         |
| 23-Jan-16 | 61.42  | 25.16                                    | 0.31                      | 0.00                                    | 0.44                                   | 0.78  | 0.00  | 0.00                                  | 55.74                                | 143.84           | 0.00                                       | 3.01                                    | 3.46                            | 7.93                                      | 0.00   | 0.00  | 10.61                                     | 7.22                                   | 2.76                                       | 0.96                                      | 0.00                                       | 35.95                          | 8.52  | 8.52         |
| 24-Jan-16 | 45.05  | 18.35                                    | 1.28                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 58.01                                | 122.68           | 0.00                                       | 1.33                                    | 1.98                            | 6.99                                      | 0.00   | 0.00  | 9.69                                      | 8.95                                   | 2.61                                       | 0.96                                      | 0.00                                       | 32.51                          | 13.07                                       | 13.07        |
| 25-Jan-16 | 65.80  | 21.40                                    | 0.27                      | 0.00                                    | 1.46                                   | 0.68  | 0.00  | 0.00                                  | 58.38                                | 148.00           | 0.00                                       | 3.38                                    | 3.63                            | 7.94                                      | 0.00   | 0.00  | 9.81                                      | 9.06                                   | 2.72                                       | 0.96                                      | 0.00                                       | 37.50                          | 1.49  | 1.49         |
| 26-Jan-16 | 63.75  | 21.66                                    | 0.79                      | 0.00                                    | 1.91                                   | 0.81  | 0.00  | 0.00                                  | 51.46                                | 140.38           | 0.00                                       | 4.13                                    | 3.38                            | 8.48                                      | 0.00   | 0.00  | 9.71                                      | 8.97                                   | 3.10                                       | 0.96                                      | 0.00                                       | 38.72                          | 0.00  | 0.00         |
| 27-Jan-16 | 64.73  | 18.74                                    | 0.05                      | 0.00                                    | 0.93                                   | 0.26  | 0.00  | 0.00                                  | 52.43                                | 137.13           | 0.00                                       | 4.33                                    | 3.04                            | 11.08                                     | 0.00   | 0.00  | 10.68                                     | 8.97                                   | 3.40                                       | 0.96                                      | 0.00                                       | 42.44                          | 0.00  | 0.00         |
| 28-Jan-16 | 64.50  | 18.79                                    | 0.06                      | 0.00                                    | 1.51                                   | 0.23  | 0.00  | 0.00                                  | 56.41                                | 141.50           | 0.00                                       | 3.50                                    | 4.63                            | 9.34                                      | 0.00   | 0.00  | 9.05                                      | 9.01                                   | 3.72                                       | 0.48                                      | 0.00                                       | 39.72                          | 0.00  | 0.00         |
| 29-Jan-16 | 62.00  | 16.63                                    | 2.31                      | 0.00                                    | 0.00                                   | 0.00  | 0.00  | 0.00                                  | 60.44                                | 141.37           | 0.00                                       | 3.67                                    | 4.60                            | 11.11                                     | 0.00   | 0.00  | 11.69                                     | 8.98                                   | 3.29                                       | 0.96                                      | 0.00                                       | 44.31                          | 0.00  | 0.00         |
| 30-Jan-16 | 52.41  | 17.42                                    | 4.83                      | 0.00                                    | 0.77                                   | 0.00  | 0.00  | 0.00                                  | 60.44                                | 135.86           | 0.00                                       | 2.48                                    | 4.55                            | 11.74                                     | 0.00   | 0.00  | 12.82                                     | 8.92                                   | 3.19                                       | 0.48                                      | 0.00                                       | 44.17                          | 0.00  | 0.00         |
| 31-Jan-16 | 56.58  | 19.48                                    | 2.06                      | 0.00                                    | 0.53                                   | 0.00  | 0.00  | 0.00                                  | 59.78                                | 138.43           | 0.00                                       | 4.11                                    | 2.58                            | 10.33                                     | 0.00   | 0.00  | 12.10                                     | 8.97                                   | 0.00                                       | 0.96                                      | 0.00                                       | 39.04                          | 0.00  | 0.00         |
| Total     | 1834.99  | 679.81                                   | 74.56                     | 1.20                                    | 26.86                                  | 9.75  | 0.00  | 2.58                                  | 1735.83                              | 4365.57          | 0.00                                       | 100.55                                  | 118.73                          | 319.84                                    | 0.00   | 0.00  | 309.39                                    | 244.04                                 | 80.52                                      | 9.12                                      | 0.00                                       | 1182.18                        | 185.04                                      | 185.04       |

| 12.2 Export of NR to WR & ER during Jan 2016 |                                   |                                |                     |                              |                               |                                     |   |                                 |                              |               |                                   |                                |                              |                                   |                          |                                       |                                 |                                |                                   |                                  |                                   |               |                                       |              |
|--|-----------------------------------|--------------------------------|---------------------|------------------------------|-------------------------------|-------------------------------------|---|---------------------------------|------------------------------|---------------|-----------------------------------|--------------------------------|------------------------------|-----------------------------------|--------------------------|---------------------------------------|---------------------------------|--------------------------------|-----------------------------------|----------------------------------|-----------------------------------|---------------|---------------------------------------|--------------|
| Date   | Export of NR to WR (NR- WR)       |                                |                     |                              |                               |                                     |   |                                 |                              |               | Export of NR to ER (NR- ER)       |                                |                              |                                   |                          |                                       |                                 |                                |                                   |                                  | Export of NR to NER (NR-NER)      |               |                                       |              |
|  | WR - NR 765 kV Gwalior - Agra D/C | WR-NR 765 kV Gwalior-Phagi D/C | WR - NR HVDC V chal | WR - NR 400 kV Zerdakankroti | WR - NR 400 kV Zerdak-Bhinmal | WR - NR 220 kV Badod - Kota / Modak | WR - NR 220 kV Auraiya - Malanpur / Mehgaon | WR-NR 400 kV Rihand-Vindhyachal | WR - NR HVDC Mundra - Migarh | Total NR - WR | ER - NR 765 kV Sasaram - Fatehpur | ER - NR 765 kV Gaya - Fatehpur | ER - NR 765 kV Gaya - Ballia | ER-NR 400 kV Patna - Ballia 2x2/C | ER - NR 400 kV G'pur D/C | ER - NR 400 kV B'shariff - Ballia D/C | ER - NR 400 kV Barh - G'pur D/C | ER - NR HVDC Sasaram (Byepass) | ER - NR 220 kV Pusauli - Sahupuri | ER - NR 132 kV Sahupuri - K'nasa | ER - NR 132 kV Rihand - Son Nagar | Total NR - ER | NER-NR HVDC Biswanath Chariali - Agra | Total NR-NER |
| 1-Jan-16                                     | 0.00                              | 0.00                           | 0.49                | 2.07                         | 0.00                          | 0.00                                | 1.71  | 0.00                            | 0.00                         | 4.26          | 1.23                              | 0.00                           | 0.00                         | 0.00                              | 3.78                     | 0.86                                  | 0.00                            | 0.00                           | 0.00                              | 0.48                             | 0.65                              | 7.00          | 12.04                                 | 12.04        |
| 2-Jan-16                                     | 0.00                              | 0.00                           | 1.60                | 1.40                         | 0.00                          | 0.00                                | 1.70  | 0.00                            | 0.00                         | 4.70          | 1.03                              | 0.00                           | 0.00                         | 0.00                              | 2.48                     | 0.50                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.54                              | 4.55          | 12.01                                 | 12.01        |
| 3-Jan-16                                     | 0.00                              | 0.00                           | 0.13                | 1.03                         | 0.00                          | 0.00                                | 1.69  | 0.00                            | 0.00                         | 2.85          | 1.31                              | 0.00                           | 0.00                         | 0.00                              | 3.28                     | 0.57                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.57                              | 5.72          | 10.50                                 | 10.50        |
| 4-Jan-16                                     | 0.00                              | 0.00                           | 0.34                | 1.08                         | 0.00                          | 0.00                                | 1.31  | 0.00                            | 0.00                         | 2.73          | 2.03                              | 0.00                           | 0.00                         | 0.00                              | 4.31                     | 1.41                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.51                              | 8.27          | 4.43                                  | 4.43         |
| 5-Jan-16                                     | 0.00                              | 0.00                           | 0.06                | 2.19                         | 0.00                          | 0.00                                | 1.23  | 0.00                            | 0.00                         | 3.48          | 4.61                              | 0.00                           | 0.00                         | 0.00                              | 10.73                    | 3.64                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.57                              | 19.55         | 0.00                                  | 0.00         |
| 6-Jan-16                                     | 0.00                              | 0.00                           | 0.06                | 2.19                         | 0.00                          | 0.00                                | 0.81  | 0.00                            | 0.00                         | 3.05          | 4.27                              | 0.00                           | 0.00                         | 0.00                              | 10.73                    | 3.64                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.56                              | 19.20         | 0.00                                  | 0.00         |
| 7-Jan-16                                     | 0.00                              | 0.00                           | 1.39                | 0.00                         | 0.00                          | 0.00                                | 0.85  | 0.00                            | 0.00                         | 2.25          | 3.60                              | 0.00                           | 0.00                         | 0.00                              | 11.25                    | 3.81                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.53                              | 19.19         | 0.00                                  | 0.00         |
| 8-Jan-16                                     | 0.00                              | 0.00                           | 5.05                | 0.00                         | 0.00                          | 0.00                                | 0.42  | 0.00                            | 0.00                         | 5.46          | 4.25                              | 0.00                           | 0.00                         | 0.00                              | 11.45                    | 3.59                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.58                              | 19.88         | 0.00                                  | 0.00         |
| 9-Jan-16                                     | 0.00                              | 0.00                           | 5.46                | 0.92                         | 0.00                          | 0.00                                | 0.76  | 0.00                            | 0.00                         | 7.13          | 2.84                              | 0.00                           | 0.00                         | 0.00                              | 8.79                     | 2.33                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.58                              | 14.54         | 0.00                                  | 0.00         |
| 10-Jan-16                                    | 0.00                              | 0.00                           | 1.21                | 0.96                         | 0.00                          | 0.00                                | 0.61  | 0.00                            | 0.00                         | 2.78          | 1.86                              | 0.00                           | 0.00                         | 0.00                              | 9.29                     | 4.63                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.57                              | 16.34         | 0.00                                  | 0.00         |
| 11-Jan-16                                    | 0.00                              | 0.00                           | 0.23                | 0.61                         | 0.00                          | 0.00                                | 0.42  | 0.00                            | 0.00                         | 1.26          | 1.25                              | 0.00                           | 0.00                         | 0.00                              | 10.62                    | 2.86                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.54                              | 15.27         | 0.00                                  | 0.00         |
| 12-Jan-16                                    | 0.00                              | 0.00                           | 0.53                | 0.44                         | 0.00                          | 0.00                                | 0.33  | 0.00                            | 0.00                         | 1.29          | 2.28                              | 0.00                           | 0.00                         | 0.00                              | 8.59                     | 2.61                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.54                              | 14.02         | 0.00                                  | 0.00         |
| 13-Jan-16                                    | 0.00                              | 0.00                           | 0.43                | 0.91                         | 0.00                          | 0.00                                | 0.31  | 0.00                            | 0.00                         | 1.65          | 1.44                              | 0.00                           | 0.00                         | 0.00                              | 8.06                     | 2.14                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.57                              | 12.20         | 0.00                                  | 0.00         |
| 14-Jan-16                                    | 0.00                              | 0.00                           | 0.71                | 0.65                         | 0.00                          | -0.19                               | 1.19  | 0.00                            | 0.00                         | 2.36          | 2.96                              | 0.00                           | 0.00                         | 0.00                              | 10.06                    | 2.32                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.62                              | 15.97         | 0.00                                  | 0.00         |
| 15-Jan-16                                    | 0.00                              | 0.00                           | 0.00                | 2.74                         | 0.22                          | 1.26                                | 0.76  | 2.02                            | 0.00                         | 7.00          | 5.17                              | 0.00                           | 0.00                         | 0.00                              | 13.10                    | 3.97                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.60                              | 22.85         | 0.00                                  | 0.00         |
| 16-Jan-16                                    | 0.00                              | 0.00                           | 5.97                | 4.70                         | 2.77                          | 2.51                                | 2.34  | 0.00                            | 0.00                         | 18.29         | 6.03                              | 0.00                           | 0.00                         | 0.00                              | 14.62                    | 5.41                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.60                              | 26.67         | 0.00                                  | 0.00         |
| 17-Jan-16                                    | 0.00                              | 0.00                           | 6.04                | 3.55                         | 0.30                          | 2.81                                | 2.03  | 0.00                            | 0.00                         | 14.72         | 6.81                              | 0.22                           | 0.00                         | 0.00                              | 15.56                    | 6.25                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.58                              | 29.42         | 0.00                                  | 0.00         |
| 18-Jan-16                                    | 0.00                              | 0.00                           | 3.34                | 4.67                         | 1.74                          | 2.61                                | 2.29  | 0.00                            | 0.00                         | 14.65         | 6.23                              | 0.56                           | 0.00                         | 0.00                              | 15.39                    | 6.30                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.59                              | 29.06         | 0.00                                  | 0.00         |
| 19-Jan-16                                    | 0.00                              | 0.00                           | 3.55                | 4.02                         | 1.00                          | 2.10                                | 1.12  | 0.00                            | 0.00                         | 11.78         | 3.30                              | 0.00                           | 0.00                         | 0.00                              | 13.22                    | 5.77                                  | 0.00                            | 2.01                           | 0.00                              | 0.00                             | -0.41                             | 23.89         | 0.00                                  | 0.00         |
| 20-Jan-16                                    | 0.00                              | 0.00                           | 0.03                | 3.53                         | 0.39                          | 1.46                                | 1.18  | 0.00                            | 0.00                         | 6.59          | 0.42                              | 0.00                           | 0.00                         | 0.00                              | 6.66                     | 3.17                                  | 0.00                            | 1.93                           | 0.00                              | 0.00                             | 0.37                              | 12.54         | 0.00                                  | 0.00         |
| 21-Jan-16                                    | 0.00                              | 0.00                           | 1.99                | 3.41                         | 0.42                          | 1.37                                | 1.43  | 0.00                            | 0.00                         | 8.63          | 3.56                              | 0.00                           | 0.00                         | 0.00                              | 10.92                    | 6.44                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.56                              | 21.48         | 0.00                                  | 0.00         |
| 22-Jan-16                                    | 0.00                              | 0.00                           | 2.30                | 2.97                         | 0.17                          | 1.40                                | 1.20  | 0.00                            | 0.00                         | 8.03          | 2.53                              | 0.00                           | 0.00                         | 0.00                              | 9.51                     | 4.89                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.56                              | 17.49         | 0.00                                  | 0.00         |
| 23-Jan-16                                    | 0.00                              | 0.00                           | 9.74                | 2.23                         | 0.00                          | 0.00                                | 0.62  | 0.00                            | 0.00                         | 12.59         | 4.25                              | 0.00                           | 0.00                         | 0.00                              | 13.31                    | 6.02                                  | 0.00                            | 0.00                           | 0.00                              | 0.48                             | 0.54                              | 24.60         | 0.00                                  | 0.00         |
| 24-Jan-16                                    | 0.00                              | 0.00                           | 6.34                | 3.33                         | 0.67                          | 0.78                                | 0.83  | 0.00                            | 0.00                         | 11.95         | 5.83                              | 0.00                           | 0.00                         | 0.00                              | 16.54                    | 7.08                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.52                              | 29.97         | 0.00                                  | 0.00         |
| 25-Jan-16                                    | 0.00                              | 0.00                           | 9.28                | 1.25                         | 0.00                          | 0.00                                | 0.33  | 0.00                            | 0.00                         | 10.86         | 3.49                              | 0.00                           | 0.00                         | 0.00                              | 8.32                     | 4.18                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.53                              | 16.53         | 0.00                                  | 0.00         |
| 26-Jan-16                                    | 0.00                              | 0.00                           | 1.23                | 0.74                         | 0.00                          | 0.00                                | 1.13  | 0.00                            | 0.00                         | 3.10          | 2.24                              | 0.00                           | 0.00                         | 0.00                              | 4.64                     | 2.77                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.60                              | 10.25         | 12.11                                 | 12.11        |
| 27-Jan-16                                    | 0.00                              | 0.00                           | 3.48                | 1.71                         | 0.00                          | 0.00                                | 0.99  | 0.00                            | 0.00                         | 6.18          | 1.90                              | 0.00                           | 0.00                         | 0.00                              | 4.83                     | 2.88                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.74                              | 10.35         | 11.98                                 | 11.98        |
| 28-Jan-16                                    | 0.00                              | 0.00                           | 5.75                | 1.37                         | 0.00                          | 0.00                                | 1.45  | 0.00                            | 0.00                         | 8.57          | 2.86                              | 0.00                           | 0.00                         | 0.00                              | 4.79                     | 1.19                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.79                              | 9.62          | 12.08                                 | 12.08        |
| 29-Jan-16                                    | 0.00                              | 0.00                           | 0.00                | 2.80                         | 1.91                          | 0.79                                | 1.84  | 0.00                            | 0.00                         | 7.33          | 2.14                              | 0.00                           | 0.00                         | 0.00                              | 4.63                     | 0.44                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.58                              | 7.80          | 12.09                                 | 12.09        |
| 30-Jan-16                                    | 0.00                              | 0.00                           | 0.00                | 2.42                         | 0.00                          | 0.54                                | 2.00  | 0.00                            | 0.00                         | 4.96          | 3.71                              | 0.00                           | 0.00                         | 0.00                              | 8.25                     | 1.69                                  | 0.00                            | 0.00                           | 0.00                              | 0.00                             | 0.56                              | 14.21         | 5.68                                  | 5.68         |
| 31-Jan-16                                    | 0.00                              | 0.00                           | 0.23                | 1.94                         | 0.00                          | 0.29                                | 2.12  | 0.00                            | 0.00                         | 4.58          | 4.25                              | 0.00                           | 0.00                         | 0.00                              | 6.87                     | 2.73                                  | 0.00                            | 0.00                           | 3.32                              | 0.00                             | 0.62                              | 17.79         | 11.86                                 | 11.86        |
| Total  | 0.00                              | 0.00                           | 76.96               | 61.81                        | 9.57                          | 17.72                               | 36.97                                       | 2.02                            | 0.00                         | 205.05        | 99.69                             | 0.78                           | 0.00                         | 0.00                              | 284.56                   | 106.09                                | 0.00                            | 3.93                           | 3.32                              | 0.96                             | 16.86                             | 516.19        | 104.79                                | 104.79       |

| Date      | 12.3 Import - Export of ER with WR & NER during Jan 2016 |                                   |                                   |   |                                     |                                   |                                     |                                       |                                     |               |   |                                   |                                   |   |                                   |                                 |                                     |                                       |                                     |               |                                   |                                  |  |  |                |                                   |                                  |  |  |                |
|-----------|--|-----------------------------------|-----------------------------------|---|-------------------------------------|-----------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------|---|-----------------------------------|-----------------------------------|---|-----------------------------------|---------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|---------------|-----------------------------------|----------------------------------|--|--|----------------|-----------------------------------|----------------------------------|--|--|----------------|
|           | 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 Dharamjaygarh - Ranchi D/C                | WR - ER 400 kV Sipat - Ranchi D/C | WR - ER 400 kV Raigarh - Sterlite | WR - ER 765 kV Dharamjaygarh - Jharsuguda | WR - ER 400 kV Raigarh - IND Bharat | WR - ER 400 kV Raigarh - Rourkela | WR - ER 400 kV Raigarh - Jharsuguda | WR - ER 220 kV Korba - Budhipadar D/C | WR - ER 220 kV Raigarh - Budhipadar | Total WR - ER | WR - ER 765 kV Dharamjaygarh - Ranchi D/C | ER - WR 400 kV Sipat - Ranchi D/C | ER - WR 400 kV Raigarh - Sterlite | ER_WR 765 kV Dharamjaygarh - Jharsuguda | ER_WR 400 kV Raigarh - IND Bharat | ER_WR 400 kV Raigarh - Rourkela | ER - WR 400 kV Raigarh - Jharsuguda | ER - WR 220 kV Korba - Budhipadar D/C | ER - WR 220 kV Raigarh - Budhipadar | Total ER - WR | ER - NER 132 kV Geyegghu-Salakati | ER - NER 132 kV Deothan g-Rangia | ER - NER 400 kV Binaguri - Bongaigaon 2x2D/C | ER - NER 220 kV Birpara - Salakati D/C | Total ER - NER | ER - NER 132 kV Geyegghu-Salakati | ER - NER 132 kV Deothan g-Rangia | NER - ER 400 kV Binaguri - Bongaigaon 2x2D/C | NER - ER 220 kV Birpara - Salakati D/C | Total NER - ER |
| 1-Jan-16  | 0.0  | 5.1                               | 0.0                               | 0.0                                       | 1.7                                 | 1.0                               | 2.5                                 | 0.0                                   | 0.00                                | 10.32         | 1.6                                       | 0.0                               | 0.0                               | 12.9                                    | 0.0                               | 0.0                             | 0.0                                 | 0.1                                   | 2.2                                 | 16.81         | 0.00                              | 0.00                             | 0.00   | 0.00                                   | 0.00           | 0.45                              | 0.17                             | 0.84   | 0.36                                   | 1.82           |
| 2-Jan-16  | 0.0  | 4.7                               | 0.0                               | 0.0                                       | 2.0                                 | 1.2                               | 2.8                                 | 0.0                                   | 0.00                                | 10.59         | 1.8                                       | 0.0                               | 2.1                               | 9.9                                     | 0.0                               | 0.0                             | 0.0                                 | 0.2                                   | 2.2                                 | 16.16         | 0.00                              | 0.00                             | 0.00   | 0.00                                   | 0.00           | 0.32                              | 0.23                             | 0.51   | 0.14                                   | 1.20           |
| 3-Jan-16  | 0.0  | 4.7                               | 0.0                               | 0.0                                       | 2.1                                 | 1.3                               | 3.0                                 | 0.0                                   | 0.00                                | 11.15         | 1.4                                       | 0.0                               | 2.7                               | 11.2                                    | 0.0                               | 0.0                             | 0.0                                 | 0.7                                   | 1.9                                 | 17.94         | 0.00                              | 0.00                             | 0.00   | 0.00                                   | 0.00           | 0.46                              | 0.13                             | 0.56   | 0.06                                   | 1.22           |
| 4-Jan-16  | 0.0  | 4.3                               | 0.0                               | 0.0                                       | 2.4                                 | 1.3                               | 3.3                                 | 0.0                                   | 0.00                                | 11.21         | 1.8                                       | 0.0                               | 2.6                               | 13.4                                    | 0.0                               | 0.1                             | 0.0                                 | 0.8                                   | 2.1                                 | 20.74         | 0.00                              | 0.01                             | 4.29   | 0.45                                   | 4.75           | 0.51                              | 0.00                             | 0.00   | 0.00                                   | 0.51           |
| 5-Jan-16  | 0.0  | 5.7                               | 0.0                               | 0.0                                       | 2.2                                 | 1.4                               | 3.2                                 | 0.0                                   | 0.00                                | 12.46         | 1.0                                       | 0.0                               | 2.1                               | 14.3                                    | 0.0                               | 0.1                             | 0.0                                 | 0.5                                   | 2.8                                 | 20.82         | 0.00                              | 0.13                             | 18.77  | 1.95                                   | 20.86          | 0.63                              | 0.00                             | 0.00   | 0.00                                   | 0.63           |
| 6-Jan-16  | 0.0  | 5.8                               | 0.0                               | 0.0                                       | 2.3                                 | 1.4                               | 3.2                                 | 0.5                                   | 0.00                                | 13.15         | 0.6                                       | 0.0                               | 2.3                               | 16.7                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 1.6                                 | 21.17         | 0.00                              | 0.05                             | 20.06  | 1.95                                   | 22.07          | 0.61                              | 0.00                             | 0.00   | 0.00                                   | 0.61           |
| 7-Jan-16  | 0.0  | 6.0                               | 0.0                               | 0.0                                       | 2.3                                 | 1.7                               | 3.2                                 | 2.0                                   | 0.00                                | 15.10         | 0.2                                       | 0.0                               | 2.1                               | 16.4                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 18.65         | 0.00                              | 0.03                             | 19.74  | 2.12                                   | 21.90          | 0.60                              | 0.00                             | 0.00   | 0.00                                   | 0.60           |
| 8-Jan-16  | 0.8  | 7.1                               | 0.0                               | 0.0                                       | 3.1                                 | 2.6                               | 4.3                                 | 2.2                                   | 0.00                                | 20.07         | 0.0                                       | 0.0                               | 1.2                               | 12.0                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 13.16         | 0.00                              | 0.00                             | 20.14  | 2.05                                   | 22.19          | 0.66                              | 0.00                             | 0.00   | 0.00                                   | 0.66           |
| 9-Jan-16  | 0.0  | 4.4                               | 0.0                               | 0.0                                       | 1.8                                 | 0.8                               | 2.6                                 | 0.9                                   | 0.00                                | 10.55         | 1.2                                       | 0.0                               | 2.6                               | 18.1                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.1                                 | 22.00         | 0.00                              | 0.00                             | 16.04  | 1.67                                   | 17.71          | 0.55                              | 0.03                             | 0.00   | 0.00                                   | 0.57           |
| 10-Jan-16 | 0.8  | 6.0                               | 0.0                               | 0.0                                       | 1.5                                 | 0.8                               | 2.1                                 | 1.3                                   | 0.00                                | 12.55         | 0.0                                       | 0.0                               | 1.7                               | 14.9                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 16.68         | 0.00                              | 0.14                             | 16.69  | 1.73                                   | 18.56          | 0.63                              | 0.00                             | 0.00   | 0.00                                   | 0.63           |
| 11-Jan-16 | 0.3  | 5.6                               | 0.0                               | 0.0                                       | 2.1                                 | 1.2                               | 2.9                                 | 1.6                                   | 0.00                                | 13.65         | 0.0                                       | 0.0                               | 3.6                               | 15.1                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 18.61         | 0.00                              | 0.05                             | 20.87  | 1.98                                   | 22.90          | 0.59                              | 0.00                             | 0.00   | 0.00                                   | 0.59           |
| 12-Jan-16 | 0.3  | 5.1                               | 0.0                               | 0.0                                       | 2.0                                 | 0.8                               | 2.7                                 | 0.6                                   | 0.00                                | 11.51         | 0.0                                       | 0.0                               | 6.6                               | 17.4                                    | 0.0                               | 0.3                             | 0.0                                 | 0.0                                   | 0.7                                 | 25.00         | 0.00                              | 0.02                             | 14.38  | 1.74                                   | 16.14          | 0.56                              | 0.00                             | 0.00   | 0.00                                   | 0.56           |
| 13-Jan-16 | 0.0  | 3.6                               | 0.0                               | 0.0                                       | 1.7                                 | 0.1                               | 2.4                                 | 0.4                                   | 0.00                                | 8.18          | 2.2                                       | 0.0                               | 7.4                               | 22.7                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 1.2                                 | 33.54         | 0.00                              | 0.08                             | 12.15  | 1.46                                   | 13.69          | 0.49                              | 0.00                             | 0.00   | 0.00                                   | 0.49           |
| 14-Jan-16 | 0.0  | 5.1                               | 0.0                               | 0.0                                       | 1.8                                 | 0.7                               | 2.5                                 | 0.6                                   | 0.00                                | 10.68         | 0.4                                       | 0.0                               | 6.7                               | 14.8                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 1.1                                 | 23.05         | 0.00                              | 0.00                             | 14.14  | 1.50                                   | 15.64          | 0.54                              | 0.02                             | 0.00   | 0.00                                   | 0.55           |
| 15-Jan-16 | 1.2  | 5.8                               | 0.0                               | 0.0                                       | 1.4                                 | 1.0                               | 1.9                                 | 1.0                                   | 0.00                                | 12.32         | 0.0                                       | 0.0                               | 4.3                               | 7.7                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 1.1                                 | 13.03         | 0.00                              | 0.00                             | 17.34  | 1.54                                   | 18.88          | 0.52                              | 0.02                             | 0.00   | 0.00                                   | 0.54           |
| 16-Jan-16 | 0.0  | 3.8                               | 0.0                               | 0.0                                       | 1.4                                 | 0.6                               | 1.9                                 | 0.9                                   | 0.00                                | 8.73          | 2.1                                       | 0.0                               | 4.1                               | 9.2                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 1.4                                 | 16.77         | 0.00                              | 0.00                             | 19.95  | 1.82                                   | 21.77          | 0.57                              | 0.00                             | 0.00   | 0.00                                   | 0.57           |
| 17-Jan-16 | 0.0  | 4.8                               | 0.5                               | 0.0                                       | 2.1                                 | 1.4                               | 2.9                                 | 2.8                                   | 0.00                                | 14.49         | 1.3                                       | 0.0                               | 3.0                               | 7.5                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 11.81         | 0.00                              | 0.15                             | 22.85  | 2.21                                   | 25.21          | 0.56                              | 0.00                             | 0.00   | 0.00                                   | 0.56           |
| 18-Jan-16 | 0.0  | 4.3                               | 0.6                               | 0.0                                       | 1.7                                 | 1.1                               | 2.4                                 | 2.4                                   | 0.00                                | 12.44         | 1.5                                       | 0.0                               | 2.6                               | 7.0                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.2                                 | 11.24         | 0.00                              | 0.03                             | 20.91  | 2.12                                   | 23.06          | 0.57                              | 0.00                             | 0.00   | 0.00                                   | 0.57           |
| 19-Jan-16 | 0.0  | 3.7                               | 0.5                               | 0.0                                       | 1.8                                 | 1.1                               | 2.5                                 | 2.6                                   | 0.00                                | 12.27         | 2.3                                       | 0.0                               | 2.9                               | 8.2                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.1                                 | 13.56         | 0.00                              | 0.11                             | 21.84  | 2.28                                   | 24.23          | 0.56                              | 0.00                             | 0.00   | 0.00                                   | 0.56           |
| 20-Jan-16 | 0.0  | 2.2                               | 0.6                               | 0.0                                       | 1.7                                 | 0.5                               | 2.3                                 | 2.0                                   | 0.00                                | 9.27          | 4.8                                       | 0.0                               | 3.2                               | 11.5                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.1                                 | 19.63         | 0.00                              | 0.04                             | 14.17  | 1.57                                   | 15.78          | 0.61                              | 0.00                             | 0.00   | 0.00                                   | 0.61           |
| 21-Jan-16 | 0.0  | 2.7                               | 0.0                               | 0.0                                       | 0.7                                 | 0.1                               | 1.4                                 | 2.5                                   | 0.00                                | 7.47          | 3.7                                       | 0.0                               | 2.7                               | 13.2                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 19.68         | 0.00                              | 0.03                             | 19.39  | 1.95                                   | 21.38          | 0.60                              | 0.00                             | 0.00   | 0.00                                   | 0.60           |
| 22-Jan-16 | 0.0  | 2.8                               | 0.0                               | 0.0                                       | 1.3                                 | 0.8                               | 2.2                                 | 2.5                                   | 0.00                                | 9.64          | 3.1                                       | 0.0                               | 1.3                               | 12.7                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 17.15         | 0.00                              | 0.00                             | 11.52  | 0.81                                   | 12.33          | 0.38                              | 0.04                             | 0.00   | 0.00                                   | 0.42           |
| 23-Jan-16 | 0.0  | 4.7                               | 0.0                               | 0.0                                       | 2.5                                 | 1.6                               | 3.5                                 | 2.2                                   | 0.00                                | 14.52         | 1.3                                       | 0.0                               | 3.7                               | 15.1                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 20.05         | 0.00                              | 0.04                             | 22.24  | 1.68                                   | 23.96          | 0.40                              | 0.00                             | 0.00   | 0.00                                   | 0.40           |
| 24-Jan-16 | 0.0  | 4.7                               | 0.0                               | 0.0                                       | 0.5                                 | 1.9                               | 3.7                                 | 2.9                                   | 0.00                                | 13.66         | 1.3                                       | 0.0                               | 1.4                               | 9.0                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 11.76         | 0.00                              | 0.03                             | 22.34  | 2.15                                   | 24.51          | 0.53                              | 0.00                             | 0.00   | 0.00                                   | 0.53           |
| 25-Jan-16 | 0.0  | 5.3                               | 0.0                               | 0.0                                       | 1.7                                 | 2.1                               | 4.7                                 | 2.7                                   | 0.00                                | 16.43         | 0.8                                       | 0.0                               | 2.8                               | 13.2                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 16.81         | 0.00                              | 0.00                             | 10.24  | 0.84                                   | 11.08          | 0.39                              | 0.18                             | 0.00   | 0.00                                   | 0.57           |
| 26-Jan-16 | 0.0  | 4.4                               | 0.0                               | 0.0                                       | 1.2                                 | 1.5                               | 3.3                                 | 2.6                                   | 0.00                                | 12.97         | 1.2                                       | 0.0                               | 3.0                               | 13.7                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 17.89         | 0.00                              | 0.00                             | 0.00   | 0.00                                   | 0.00           | 0.32                              | 0.24                             | 1.02   | 0.54                                   | 2.13           |
| 27-Jan-16 | 0.0  | 4.3                               | 0.0                               | 0.0                                       | 1.4                                 | 1.7                               | 3.9                                 | 2.7                                   | 0.00                                | 14.02         | 1.8                                       | 0.0                               | 3.1                               | 12.7                                    | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 17.61         | 0.00                              | 0.00                             | 0.00   | 0.00                                   | 0.00           | 0.27                              | 0.18                             | 1.21   | 0.70                                   | 2.36           |
| 28-Jan-16 | 0.0  | 5.8                               | 0.0                               | 0.0                                       | 1.1                                 | 1.2                               | 4.7                                 | 3.0                                   | 0.00                                | 15.80         | 1.0                                       | 0.0                               | 2.6                               | 8.9                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 12.46         | 0.00                              | 0.00                             | 0.00   | 0.00                                   | 0.00           | 0.27                              | 0.18                             | 1.42   | 0.65                                   | 2.52           |
| 29-Jan-16 | 0.0  | 4.9                               | 0.9                               | 0.0                                       | 1.4                                 | 1.6                               | 3.3                                 | 3.3                                   | 0.00                                | 15.42         | 1.7                                       | 0.0                               | 3.4                               | 6.6                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 11.69         | 0.00                              | 0.00                             | 0.00   | 0.00                                   | 0.00           | 0.29                              | 0.13                             | 1.60   | 0.76                                   | 2.78           |
| 30-Jan-16 | 0.0  | 4.2                               | 0.5                               | 0.0                                       | 1.3                                 | 1.5                               | 3.3                                 | 3.2                                   | 0.00                                | 14.05         | 1.6                                       | 0.0                               | 3.6                               | 8.1                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 13.21         | 0.00                              | 0.00                             | 5.33   | 0.06                                   | 5.40           | 0.31                              | 0.17                             | 0.00   | 0.00                                   | 0.49           |
| 31-Jan-16 | 0.0  | 4.5                               | 1.1                               | 0.0                                       | 1.4                                 | 1.6                               | 3.5                                 | 2.4                                   | 0.00                                | 14.52         | 1.0                                       | 0.0                               | 3.2                               | 9.0                                     | 0.0                               | 0.0                             | 0.0                                 | 0.0                                   | 0.0                                 | 13.29         | 0.00                              | 0.00                             | 0.37   | 0.00                                   | 0.37           | 0.43                              | 0.13                             | 0.00   | 0.19                                   | 0.75           |
| Total     | 3.48   | 146.00                            | 4.73                              | 0.00                                      | 53.52                               | 37.76                             | 91.91                               | 51.77                                 | 0.00                                | 389.17        | 42.60                                     | 0.00                              | 94.68                             | 382.87                                  | 0.00                              | 0.53                            | 0.00                                | 2.29                                  | 18.97                               | 541.95        | 0.00                              | 0.95                             | 385.78                                       | 37.64                                  | 424.36         | 15.17                             | 1.87                             | 7.17   | 3.40                                   | 27.61          |

| Date      | 12.4 Import and Export of SR with ER & WR during Jan 2016 |                             |               |                                |                        |               |                            |                                   |                                |               |                                |                                   |                                |               |
|-----------|---|-----------------------------|---------------|--------------------------------|------------------------|---------------|----------------------------|-----------------------------------|--------------------------------|---------------|--------------------------------|-----------------------------------|--------------------------------|---------------|
|           | 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 Gazuwaka                                     | ER - SR HVDC Talchar -Kolar | Total ER - SR | SR - ER HVDC Gazuwaka          | SR - ER HVDC Talchar - | Total SR - ER | WR - SR HVDC Bhadrawati    | WR - SR 765 kV Sholapur - Raichur | WR-SR 400KV Kolhapur-Kudgi D/C | Total WR - SR | SR - WR HVDC Bhadrawati        | SR - WR 765 kV Raichur - Sholapur | SR-WR 400KV Kolhapur-Kudgi D/C | Total SR - WR |
| 1-Jan-16  | 14.9  | 44.2                        | 59.10         | 0.00                           | 0.00                   | 0.00          | 11.58                      | 31.66                             | 2.22                           | 43.24         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 2-Jan-16  | 14.8  | 43.7                        | 58.44         | 0.00                           | 0.00                   | 0.00          | 11.42                      | 26.05                             | 2.41                           | 37.47         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 3-Jan-16  | 13.9  | 41.0                        | 54.89         | 0.00                           | 0.00                   | 0.00          | 11.96                      | 12.05                             | 4.62                           | 24.01         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 4-Jan-16  | 14.7  | 35.5                        | 50.21         | 0.00                           | 0.00                   | 0.00          | 11.99                      | 13.37                             | 4.22                           | 25.36         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 5-Jan-16  | 16.6  | 37.4                        | 54.00         | 0.00                           | 0.00                   | 0.00          | 12.02                      | 11.11                             | 4.89                           | 23.13         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 6-Jan-16  | 16.5  | 37.5                        | 54.00         | 0.00                           | 0.00                   | 0.00          | 12.01                      | 10.11                             | 5.08                           | 22.12         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 7-Jan-16  | 16.1  | 43.3                        | 59.39         | 0.00                           | 0.00                   | 0.00          | 12.03                      | 20.85                             | 3.88                           | 32.88         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 8-Jan-16  | 16.1  | 43.4                        | 59.45         | 0.00                           | 0.00                   | 0.00          | 12.01                      | 26.45                             | 2.52                           | 38.46         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 9-Jan-16  | 16.6  | 10.5                        | 27.17         | 0.00                           | 0.00                   | 0.00          | 15.85                      | 32.30                             | 1.17                           | 48.14         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 10-Jan-16 | 17.1  | 9.6                         | 26.70         | 0.00                           | 0.00                   | 0.00          | 17.30                      | 31.70                             | 0.46                           | 49.01         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 11-Jan-16 | 15.0  | 6.5                         | 21.46         | 0.00                           | 0.00                   | 0.00          | 17.87                      | 34.97                             | 0.00                           | 52.84         | 0.00                           | 0.00                              | -0.11                          | 0.00          |
| 12-Jan-16 | 14.4  | 10.4                        | 24.84         | 0.00                           | 0.00                   | 0.00          | 20.46                      | 33.01                             | 0.00                           | 53.46         | 0.00                           | 0.00                              | -0.35                          | 0.00          |
| 13-Jan-16 | 16.3  | 8.2                         | 24.54         | 0.00                           | 0.00                   | 0.00          | 19.88                      | 32.94                             | 1.27                           | 52.82         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 14-Jan-16 | 17.0  | 20.4                        | 37.39         | 0.00                           | 0.00                   | 0.00          | 21.76                      | 36.15                             | 0.75                           | 57.91         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 15-Jan-16 | 14.9  | 34.9                        | 49.81         | 0.00                           | 0.00                   | 0.00          | 22.25                      | 33.20                             | 1.14                           | 55.45         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 16-Jan-16 | 14.9  | 38.2                        | 53.06         | 0.00                           | 0.00                   | 0.00          | 20.42                      | 28.49                             | 1.52                           | 48.92         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 17-Jan-16 | 16.2  | 41.6                        | 57.83         | 0.00                           | 0.00                   | 0.00          | 22.63                      | 34.16                             | 0.39                           | 56.80         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 18-Jan-16 | 16.4  | 42.0                        | 58.34         | 0.00                           | 0.00                   | 0.00          | 19.67                      | 37.99                             | 0.84                           | 57.65         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 19-Jan-16 | 15.3  | 48.0                        | 63.27         | 0.00                           | 0.00                   | 0.00          | 20.32                      | 38.88                             | 0.31                           | 59.21         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 20-Jan-16 | 10.6  | 47.3                        | 57.92         | 0.00                           | 0.00                   | 0.00          | 21.02                      | 38.81                             | 0.95                           | 59.83         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 21-Jan-16 | 11.3  | 37.2                        | 48.48         | 0.00                           | 0.00                   | 0.00          | 21.42                      | 43.74                             | 0.00                           | 65.15         | 0.00                           | 0.00                              | -1.35                          | 0.00          |
| 22-Jan-16 | 11.8  | 45.4                        | 57.19         | 0.00                           | 0.00                   | 0.00          | 21.76                      | 39.80                             | 0.00                           | 61.56         | 0.00                           | 0.00                              | -0.22                          | 0.00          |
| 23-Jan-16 | 11.1  | 41.3                        | 52.44         | 0.00                           | 0.00                   | 0.00          | 23.23                      | 33.73                             | 0.00                           | 56.97         | 0.00                           | 0.00                              | -0.22                          | 0.00          |
| 24-Jan-16 | 10.8  | 42.4                        | 53.21         | 0.00                           | 0.00                   | 0.00          | 23.91                      | 35.93                             | 0.00                           | 59.84         | 0.00                           | 0.00                              | -0.80                          | 0.00          |
| 25-Jan-16 | 16.2  | 45.2                        | 61.40         | 0.00                           | 0.00                   | 0.00          | 22.62                      | 36.13                             | 0.00                           | 58.75         | 0.00                           | 0.00                              | -0.17                          | 0.00          |
| 26-Jan-16 | 15.5  | 45.5                        | 61.03         | 0.00                           | 0.00                   | 0.00          | 19.95                      | 38.45                             | 0.00                           | 58.39         | 0.00                           | 0.00                              | -0.66                          | 0.00          |
| 27-Jan-16 | 15.8  | 42.6                        | 58.38         | 0.00                           | 0.00                   | 0.00          | 20.91                      | 35.92                             | 0.47                           | 56.82         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 28-Jan-16 | 15.3  | 42.9                        | 58.21         | 0.00                           | 0.00                   | 0.00          | 21.45                      | 32.98                             | 1.28                           | 54.43         | 0.00                           | 0.00                              | 0.00                           | 0.00          |
| 29-Jan-16 | 16.0  | 47.9                        | 63.86         | 0.00                           | 0.00                   | 0.00          | 21.07                      | 41.75                             | 0.00                           | 62.81         | 0.00                           | 0.00                              | -1.76                          | 0.00          |
| 30-Jan-16 | 17.4  | 47.1                        | 64.54         | 0.00                           | 0.00                   | 0.00          | 23.90                      | 40.05                             | 0.00                           | 63.95         | 0.00                           | 0.00                              | -1.23                          | 0.00          |
| 31-Jan-16 | 17.4  | 45.0                        | 62.43         | 0.00                           | 0.00                   | 0.00          | 23.64                      | 36.79                             | 0.00                           | 60.42         | 0.00                           | 0.00                              | -0.24                          | 0.00          |
| Total     | 466.76  | 1126.22                     | 1592.97       | 0.00                           | 0.00                   | 0.00          | 578.27                     | 979.53                            | 40.37                          | 1557.80       | 0.00                           | 0.00                              | -7.12                          | 0.00          |

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

अप्रैल 2015 से जनवरी २०१६ April 2015 to JANUARY 2016

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 2015 APR'15  | 243.70                  | -120.56                 | -303.01                 |
| मई 2015 MAY'15      | 449.85                  | -98.12                  | -334.82                 |
| जून 2015 JUN'15     | 676.37                  | -109.91                 | -317.91                 |
| जुलाई 2015 JUL'15   | 1010.50                 | -120.50                 | -312.40                 |
| अगस्त 2015 AUG'15   | 1034.10                 | -115.00                 | -324.60                 |
| सितम्बर 2015 SEP'15 | 993.00                  | -95.90                  | -317.40                 |
| अक्तूबर 2015 OCT'15 | 600.03                  | -68.22                  | -333.73                 |
| नवम्बर 2015 Nov'15  | 263.43                  | -93.42                  | -274.19                 |
| दिसम्बर 2015 Dec'15 | 140.20                  | -148.70                 | -240.90                 |
| जनवरी २०१६ JAN'16   | 72.13                   | -147.32                 | -275.90                 |
| कुल Total           | 5483.30                 | -1117.65                | -3034.86                |



14. एसटीओए (द्विपक्षीय एवं सामूहिक) एवं डी एस एम बिलिंग का ब्योरा – माह जनवरी २०१६

STOA (BILATERAL AND COLLECTIVE) & DSM BILLING DETAILS- Jan 2016

द्विपक्षीय एसटीओए BILATERAL SHORT TERM OPEN ACCESS

| जनवरी २०१६ Jan 2016                    |   |   | April'15 - Jan'16                         |  |
|--|---|---|---|--|
| क्षे.आ.प्रे.के. का नाम<br>Name of RLDC | लेन - देनों की संख्या No. of Transactions | अनुमोदित ऊर्जा (मि.यु.) Energy Units Approved(MU) | लेन - देनों की संख्या No. of Transactions | अनुमोदित ऊर्जा (मि.यु.) Energy Approved (MU) |
| ऊ.क्षे. NR                             | 250                                       | 1956  | 3791                                      | 18902  |
| प.क्षे. WR                             | 223                                       | 1059  | 2727                                      | 9739   |
| द.क्षे. SR                             | 167                                       | 1018  | 3144                                      | 16301  |
| पू.क्षे. ER                            | 135                                       | 838   | 1714                                      | 8666   |
| पूर्वोत्तर क्षे. NER                   | 45  | 216   | 279                                       | 1219   |
| कुल TOTAL                              | 820                                       | 5087  | 11655                                     | 54826  |

एसटीओए SHORT TERM OPEN ACCESS

| माह MONTH            | सामूहिक एसटीओए Collective STOA                       |  | द्विपक्षीय एसटीओए Bilateral STOA                     |  |
|----------------------|--|--|--|--|
|                      | क्र्रेताओं / विक्रेताओं की सं. NO. of Buyers/Sellers | अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU) | क्र्रेताओं / विक्रेताओं की सं. NO. of Buyers/Sellers | अनुमोदित ऊर्जा (मि.यु.) Approved Energy (MU) |
| अप्रैल 2015 APR'15   | 2495   | 2493   | 1134   | 4029   |
| मई 2015 May'15       | 2547   | 2913   | 1314   | 4481   |
| जून 2015 June'15     | 2453   | 2468   | 1172   | 6440   |
| जुलाई 2015 July '15  | 2536   | 2535   | 1011   | 6752   |
| अगस्त 2015 Aug '15   | 2592   | 2776   | 1380   | 6902   |
| सितंबर 2015 Sep '15  | 2586   | 3195   | 1461   | 5976   |
| अक्टूबर 2015 Oct '15 | 2659   | 3253   | 1369   | 4714   |
| नवम्बर 2015 Nov'15   | 2487   | 2728   | 1072   | 4953   |
| दिसम्बर 2015 Dec'15  | 2662   | 2991   | 922  | 5492   |
| जनवरी २०१६ Jan 2016  | 2716   | 2864   | 820  | 5087   |
| कुल TOTAL            | 23017  | 25352  | 11655  | 54826  |

मासिक डी एस एम बिलिंग का ब्योरा 2015-16  
MONTHLY DSM BILLING DETAILS 2015-16

अनंतिम आकडे  
Provisional data  
subject to change

करोड़ रु. में (RS. IN CRORES)

| क्षेत्र REGION    | उत्तरी क्षेत्र NORTH | पश्चिमी क्षेत्र WEST | दक्षिणी क्षेत्र SOUTH | पूर्वी क्षेत्र EAST | पूर्वोत्तर क्षेत्र NORTH EAST |
|-------------------|----------------------|----------------------|-----------------------|---------------------|-------------------------------|
| 04.01.16-10.01.16 | 60.98                | 39.27                | 15.11                 | 45.60               | *                             |
| 11.01.16-17.01.16 | 57.09                | 33.10                | 15.52                 | 39.25               | *                             |
| 18.01.16-24.01.16 | 68.88                | 30.86                | 15.25                 | 45.79               | *                             |
| 25.01.16-31.01.16 | 40.83                | 31.41                | 9.97                  | 31.14               | *                             |

\*NERPC website not accessible for data.

15. पावर मार्केट की सूचना ( स्रोत : आई.ई.एक्स. एवं पी.एक्स.आई.एल.)  
POWER MARKET INFORMATION ( Source IEX & PXIL)  
पावर एक्स्चेंज के माध्यम से विनिमय - माह जनवरी २०१६  
EXCHANGES THROUGH POWER EXCHANGES - Jan 2016

| क्र. स. S. No. | क्षेत्रीय इकाई Regional Entity                  | क्षेत्र Region     | पावर एक्स्चेंज के माध्यम से ( मि.यु. मे)<br>Through Power Exchange in MU |               |
|----------------|---|--------------------|--|---------------|
|                |   |                    | विक्रय Sale  | क्रय Purchase |
| 1              | पंजाब Punjab                                    | उत्तरी क्षेत्र NR  | 13.04  | 141.57        |
| 2              | हरियाणा Haryana                                 |                    | 45.86  | 165.05        |
| 3              | राजस्थान Rajasthan                              |                    | 49.47  | 440.11        |
| 4              | दिल्ली Delhi                                    |                    | 102.34   | 111.01        |
| 5              | उत्तर प्रदेश Uttar Pradesh                      |                    | 0.00   | 0.00          |
| 6              | उत्तराखण्ड Uttarakhand                          |                    | 0.55   | 132.20        |
| 7              | हिमाचल प्रदेश Himachal Pradesh                  |                    | 80.17  | 73.62         |
| 8              | जम्मू और कश्मीर J & K                           |                    | 12.40  | 21.15         |
| 9              | केंद्र शासित चंडीगढ़ UT Chandigarh              |                    | 1.51   | 6.88          |
| 10             | ए डी हाइड्रो AD Hydro                           |                    | 12.79  | 0.00          |
| 11             | करचम वांगतू KW                                  |                    | 57.59  | 0.00          |
| 12             | श्री सीमेंट Shree Cement                        |                    | 52.63  | 0.00          |
| 13             | नाथपा झाकरी Nathpa Jhakri                       |                    | 22.54  | 0.00          |
| 14             | बैरासूल Baira Siul HEP(BSO)                     |                    | 0.36   | 0.00          |
| 15             | चमेरा -1 Chamera-I HEP(CM1)                     |                    | 0.90   | 0.00          |
| 16             | चमेरा -2 Chamera-II HEP(CM2)                    |                    | 1.00   | 0.00          |
| 17             | धौलीगंगा Dhauliganga HEP(DGO)                   |                    | 0.70   | 0.00          |
| 18             | दुलहस्ती Dulahasti HEP(DU0)                     |                    | 0.00   | 0.00          |
| 19             | सलाल Salal HEP(SLO)                             |                    | 2.45   | 0.00          |
| 20             | सेवा -2 Sewa-II NHPC(SW2)                       |                    | 0.35   | 0.00          |
| 21             | टनकपुर Tanakpur HEP(TPO)                        |                    | 0.25   | 0.00          |
| 22             | उरी Uri HEP(UR0)                                |                    | 3.88   | 0.00          |
| 23             | लांको बुधिल LANCO Budhil                        |                    | 0.57   | 0.00          |
| 24             | चमेरा-3 chamera 3                               |                    | 0.55   | 0.00          |
| 25             | अदानी एचवीडीसी ADANI HVDC(NORGU0)               |                    | 0.00   | 0.00          |
| 26             | मलाना MALANA                                    |                    | 0.63   | 0.00          |
| 27             | उरी-II Uri-II HEP(UR2)                          |                    | 0.00   | 0.00          |
| 28             | मध्य प्रदेश MP                                  | पश्चिमी क्षेत्र WR | 69.15  | 30.26         |
| 29             | महाराष्ट्र Maharashtra                          |                    | 165.65   | 58.56         |
| 30             | गुजरात Gujarat                                  |                    | 23.67  | 279.84        |
| 31             | छत्तीसगढ़ Chattisgarh                           |                    | 46.96  | 14.32         |
| 32             | गोवा Goa  |                    | 8.22   | 15.03         |
| 33             | दमन और दीव Daman and Diu                        |                    | 0.00   | 37.69         |
| 34             | दादरा और नगर हवेली Dadra & Nagar Haveli         |                    | 0.00   | 162.86        |
| 35             | जिंदल JD  |                    | 157.30   | 0.00          |
| 36             | लांको अमरकंटक LANCO AMK                         |                    | 0.00   | 0.00          |
| 37             | आर्यन कोल ACB India Limited                     |                    | 29.81  | 0.00          |
| 38             | जिंदल स्टील एंड पावर Jindal Steel and Power Ltd |                    | 83.30  | 0.00          |
| 39             | बालको -2 Balco-II                               |                    | 16.48  | 0.00          |
| 40             | स्टरलाइट Sterlite(w3rse0)                       |                    | 179.68   | 0.00          |
| 41             | एमको EMCO                                       |                    | 0.00   | 0.00          |
| 42             | वन्दना विद्युत VANDANA VIDYUT                   |                    | 0.00   | 0.00          |
| 43             | एस्सार पावर ESSAR POWER                         |                    | 0.00   | 0.00          |
| 44             | एस्सार स्टील ESSAR STEEL                        |                    | 0.00   | 148.92        |
| 45             | के एस के महानदी KSK Mahanadi                    |                    | 0.00   | 0.00          |
| 46             | जिंदल स्टेज -II Jindal Stg-II                   |                    | 58.93  | 0.00          |
| 47             | कोरबा (प.) Korba(W) Comp. Ltd.                  |                    | 159.07   | 0.00          |
| 48             | डी बी पावर D B Power                            |                    | 110.01   | 0.00          |
| 49             | धारीवाल Dhariwal                                |                    | 35.00  | 0.00          |
| 50             | जे पी निग्री Jaypee Nigire                      |                    | 22.40  | 0.00          |
| 51             | जी एम आर छत्तीसगढ़ GMR Chhattisgarh             |                    | 123.51   | 0.00          |
| 52             | डी जीईएन मेगा पावर DGEN Mega Power              |                    | 0.00   | 0.00          |
| 53             | एम बी मेगा पावर MB Power                        |                    | 0.00   | 0.00          |
| 54             | एपीएल मुंद्रा स्टेज-I APL Mundra Stg-I          |                    | 25.19  | 0.00          |
| 55             | एपीएल मुंद्रा स्टेज-II APL Mundra Stg-II        |                    | 46.30  | 0.00          |
| 56             | एपीएल मुंद्रा स्टेज-III APL Mundra Stg-III      |                    | 78.07  | 0.00          |
| 57             | टोरेंट सुगेन Torrent Sugem                      |                    | 0.00   | 0.00          |
| 58             | मारुति कोल Maruti Coal                          |                    | 0.00   | 0.00          |
| 59             | स्पेक्ट्रम Spectrum                             |                    | 24.09  | 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 जनवरी २०१६

EXCHANGES THROUGH POWER EXCHANGES - Jan 2016

| क्र. स. S. No. | क्षेत्रीय इकाई Regional Entity    | क्षेत्र Region     | पावर एक्सचेंज के माध्यम से ( मि.यु. मे)<br>Through Power Exchange in MU |               |
|----------------|-----------------------------------|--------------------|---|---------------|
|                |                                   |                    | विक्रय Sale   | क्रय Purchase |
| 53             | आंध्र प्रदेश Andhra Pradesh       | दक्षिणी क्षेत्र SR | 3.36  | 107.35        |
| 54             | कर्नाटक Karnataka                 |                    | 0.00  | 142.03        |
| 55             | केरल Kerala                       |                    | 16.21   | 26.91         |
| 56             | तमिलनाडु Tamilnadu                |                    | 0.00  | 17.73         |
| 57             | पाण्डिचेरी Pondicherry            |                    | 0.00  | 0.00          |
| 58             | गोवा Goa                          |                    | 0.00  | 0.00          |
| 59             | लांको कोंडापल्ली LANCO KONDPLY    |                    | 0.00  | 0.00          |
| 60             | सिमापुरी SIMHAPURI                |                    | 50.39   | 0.00          |
| 61             | मीनाक्षी MINAXI                   |                    | 41.33   | 0.00          |
| 62             | तेलंगाना TELANGANA                |                    | 43.42   | 144.31        |
| 63             | थर्मल पावर टेक Thermal Power Tech |                    | 141.27  | 0.00          |
| 64             | पश्चिम बंगाल West Bengal          |                    | 14.32   | 53.20         |
| 65             | उड़ीशा Odisha                     |                    | 59.13   | 71.96         |
| 66             | बिहार Bihar                       | 0.00               | 377.74  |               |
| 67             | झारखंड Jharkhand                  | 0.00               | 3.40  |               |
| 68             | सिक्किम Sikkim                    | 7.25               | 0.00  |               |
| 69             | दामोदर घाटी परियोजना DVC          | 19.82              | 0.00  |               |
| 70             | स्टरलाइट STERLITE                 | 0.00               | 0.00  |               |
| 71             | मैथन पावर लिमिटेड Maithon P. Ltd  | 2.31               | 0.00  |               |
| 72             | आधुनिक पा. लिमिटेड Adhunik P.Ltd  | 103.41             | 0.00  |               |
| 73             | चुजाचैन Chuzachen HEP             | 9.79               | 0.00  |               |
| 74             | रंगित Rangit HEP                  | 0.00               | 0.00  |               |
| 75             | तीस्ता Teesta HEP                 | 0.00               | 0.00  |               |
| 76             | जीएमआर कमलंगा GMR Kamalanga       | 8.97               | 0.00  |               |
| 77             | जिदल आई पी टी एल JIPTL            | 273.22             | 0.00  |               |
| 78             | जोरथांग Jorethang                 | 12.83              | 0.00  |               |
| 79             | अरुणाचल प्रदेश Arunachal Pradesh  | पूर्वी क्षेत्र ER  | 0.00  | 7.72          |
| 80             | असम Assam                         |                    | 11.96   | 30.23         |
| 81             | मणिपुर Manipur                    |                    | 6.91  | 2.11          |
| 82             | मेघालय Meghalaya                  |                    | 7.07  | 29.01         |
| 83             | मिजोरम Mizoram                    |                    | 2.07  | 0.27          |
| 84             | नागालैंड Nagaland                 |                    | 0.00  | 10.60         |
| 85             | त्रिपुरा Tripura                  |                    | 103.28  | 0.00          |
| 86             | अगरतला जीटीपीपी Agartala GTPP AGO |                    | 0.00  | 0.00          |
| 87             | कोपिली KOPIJU KP1                 |                    | 0.00  | 0.00          |
| 88             | असम जीबीपीपी Assam GBPP KTO       |                    | 0.00  | 0.00          |
| 89             | लोकटक LOKTAK                      |                    | 0.00  | 0.00          |
| 90             | रंगानदी Ranganadi                 |                    | 0.00  | 0.00          |
| 91             | दोयांग Doyang                     |                    | 0.00  | 0.00          |
| 92             | पलाताना Palatana                  |                    | 0.00  | 0.00          |
|                | कुल Total                         |                    | 2863.63   | 2863.63       |

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-January 2016****RE Source & Unit wise break up (01.01.2016-31.01.2016)**

| Sr.No | Source Wise              | Accreditation |          | Registration  |          |
|-------|--------------------------|---------------|----------|---------------|----------|
|       |                          | Capacity (MW) | Unit     | Capacity (MW) | Unit     |
| 1     | Wind                     | 2.4           | 2        | 1.1           | 2        |
| 2     | Urban or Municipal Waste | 0             | 0        | 0             | 0        |
| 3     | Solar Thermal            | 0             | 0        | 0             | 0        |
| 4     | Solar PV                 | 0             | 0        | 4.9           | 2        |
| 5     | Small Hydro              | 6             | 1        | 2.5           | 2        |
| 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>             | <b>8.4</b>    | <b>3</b> | <b>8.5</b>    | <b>6</b> |

**RECs Issued (01.01.2016-31.01.2016)**

| Sr.No. | Non Solar | Solar  | Total  |
|--------|-----------|--------|--------|
| 1      | 551202    | 227808 | 779010 |

**Redemption of REC (01.01.2016-31.01.2016)**

| Sr.No. | Non Solar | Solar | Total  |
|--------|-----------|-------|--------|
| 1      | 347219    | 54720 | 401939 |

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-January 2016****RE Source & Unit wise break up (Apr-15- Jan-16)**

| Sr.No | Source Wise              | Accreditation |           | Registration  |           |
|-------|--------------------------|---------------|-----------|---------------|-----------|
|       |                          | Capacity (MW) | Unit      | Capacity (MW) | Unit      |
| 1     | Wind                     | 107.7         | 22        | 102.55        | 19        |
| 2     | Urban or Municipal Waste | 0             | 0         | 0             | 0         |
| 3     | Solar Thermal            | 0             | 0         | 0             | 0         |
| 4     | Solar PV                 | 52.13         | 32        | 55.87         | 39        |
| 5     | Small Hydro              | 8.5           | 3         | 26.5          | 3         |
| 6     | Others                   | 0             | 0         | 0             | 0         |
| 7     | Geothermal               | 0             | 0         | 0             | 0         |
| 8     | Biomass                  | 13.74         | 3         | 15.74         | 4         |
| 9     | Bio-fuel cogeneration    | 37.31         | 5         | 35.62         | 6         |
|       | <b>Total</b>             | <b>219.38</b> | <b>65</b> | <b>236.28</b> | <b>71</b> |

**RECs Issued (Apr-15- Jan-16)**

| Sr.No. | Non Solar | Solar   | Total   |
|--------|-----------|---------|---------|
| 1      | 6129849   | 1982059 | 8111908 |

**Redemption of REC (Apr-15- Jan-16)**

| Sr.No. | Non Solar | Solar  | Total   |
|--------|-----------|--------|---------|
| 1      | 2606132   | 405899 | 3012031 |

**16. RENEWABLE ENERGY CERTIFICATE MECHANISM****MONTH:-January 2016****RE Source & Unit wise break up Since Inception to Jan 16**

| Sr.No | Source Wise              | Accreditation  |             | Registration  |             |
|-------|--------------------------|----------------|-------------|---------------|-------------|
|       |                          | Capacity (MW)  | Unit        | Capacity (MW) | Unit        |
| 1     | Wind                     | 2432.69        | 622         | 2290.7        | 593         |
| 2     | Urban or Municipal Waste | 8              | 1           | 0             | 0           |
| 3     | Solar Thermal            | 3              | 1           | 0             | 0           |
| 4     | Solar PV                 | 629.08         | 314         | 617.42        | 304         |
| 5     | Small Hydro              | 327.19         | 39          | 293.69        | 34          |
| 6     | Others                   | 1.67           | 1           | 1.67          | 1           |
| 7     | Geothermal               | 0              | 0           | 0             | 0           |
| 8     | Biomass                  | 710.52         | 75          | 694.52        | 73          |
| 9     | Bio-fuel cogeneration    | 939.09         | 106         | 870.4         | 101         |
|       | <b>Total</b>             | <b>5051.24</b> | <b>1159</b> | <b>4768.4</b> | <b>1106</b> |

**RECs Issued since Inception to Jan 16**

| Sr.No. | Non Solar | Solar   | Total    |
|--------|-----------|---------|----------|
| 1      | 26127641  | 3825850 | 29953491 |

**Redemption of REC since Inception to Jan 16**

| Sr.No. | Non Solar | Solar  | Total    |
|--------|-----------|--------|----------|
| 1      | 11778067  | 650092 | 12428159 |

**REC Closing balance as on 31.01.2016**

| Sr.No. | Non Solar | Solar   | Total    |
|--------|-----------|---------|----------|
| 1      | 13869254  | 3160474 | 17029728 |

**17.Major Grid Events for January 2016\***

| S.No. | Region | Name of Elements  | Owner / Agency   | Outage     |       | Revival    |       | Outage Duration | Event   | Generation Loss(MW) | Load Loss(MW) | Category as per CEA Grid Standards |
|-------|--------|---|------------------|------------|-------|------------|-------|-----------------|---|---------------------|---------------|------------------------------------|
|       |        |   |                  | Date       | Time  | Date       | Time  |                 |   |                     |               |                                    |
| 1     | ER     | 1) 220/132 kv,100 MVAX 3 ICTs at Madhepura<br>2)132 kv Purnea(PG)-Kishanganj<br>3)132kv Purnea(BSP TCL)-Forbisganj  | BSEB             | 02.01.2016 | 06:01 | 02.01.2016 | 06:40 | 0:39            | 220/132 kv,100 MVAX 3 ICTs at Madhepura tripped. At the same time 132 kv Purnea(PG)-Kishanganj and 132kv Purnea(BSP TCL)-Forbisganj also tripped on over load causing total power failure at Forbisganj , Kataliya, Madhepura.Supol,Phoolprasad,Jainagar, Madhubani . Power flow to Nepal also got interrupted.   |                     | 450           | GD-I                               |
| 2     | NER    | 1) 400 kv Palatana-Silchar<br>2) 220 kv Misa-New Mariani<br>3) 220 kv Kathalguri-New Mariani<br>4) 132 kv Imphal-Imphal-I & II  | NER constituents | 04.01.2016 | 4:37  | 04.01.2016 | 5:30  | 0:53            | An earthquake of magnitude 6.7 on Richter Scale occurred on 04th January 2016 at 04:37 hrs IST in Tamenglong, Manipur.The incident, which comes under the category of "Strong Earthquake" was felt severely in all of North Eastern states of India.  |                     | 400           | GD-I                               |
| 3     | NER    | 1)132 kv Imphal(PG) Imphal I<br>2)132 kv Imphal(PG) Imphal II<br>3)132 kv Dimapur Imphal<br>4)132 kv Silchar - Imphal I & II<br>5)132 kv Loktak Imphal  | PG/Manipur       | 05.01.2016 | 14:54 | 05.01.2016 | 15:40 | 0:46            | Due to blasting of (Y-Ph) LA at Imphal (S) of 132 kv Imphal(PG)- Imphal II, elements given in Column C tripped.   |                     | 50            | GD-I                               |
| 4     | WR-NR  | 1) HVDC Mundra-Mohendargarh Bipole  | Adani            | 08.01.2016 | 6:40  | 08.01.2016 | 11:25 | 4:45            | During early morning hours HVDC Mundra-Mohendargarh Bipole tripped. The reason of tripping as reported by site is DC Line fault.During this incident the SPS action was observed in Western Region as well as Northern Region.  | 1000                | 1400          | GD-I                               |
| 5     | ER-SR  | 1) 400 KV Jeypore-Gazuwaka-I<br>2) HVDC B/B Gazuwaka Pole-II  | PG               | 12.01.2016 | 21:28 | 12.01.2016 | 22:23 | 0:55            | 400 KV Jeypore-Gazuwaka 1 tripped at 2128 Hrs on Y phase to E/F consequently Gazuwaka pole 2 tripped at same time on DC Current low alarm.  |                     |               | GI-II                              |
| 6     | WR-NR  | 1) 765 kv Gwalior-Agra-D/C<br>2) Many Lines in NR at 400 kv level   | WR/NR            | 14.01.2016 | 7:14  | 14.01.2016 | 12:15 | 5:01            | Dense fog was reported from many areas in Northern Region. During such dense fog conditions, number of the 660kV and above voltage level lines had tripped on phase to earth fault/ over voltage. To avoid frequent auto restart & outage, 500kV HVDC Mundra-Mohendargarh Bipole & HVDC Rihand-Dadri were taken into RVD mode at 03:01 & 06:38hrs respectively. Thus power order on them reduced to 3500MW & 1015 MW from 3500MW & 3100 MW respectively. Important link of WR-NR, 765kV Agra-Gwalior ckt-2 tripped on phase to earth fault at 07:14hrs & 765kV Agra-Gwalior ckt-1 tripped on phase to earth fault at 07:38hrs. Agra-Gwalior SPS operation has also been reported due to tripping of both the line resulted into sudden reduction of power flow in Agra-Gwalior ckt-1&2 more than 15000MW.   | 500                 | 1000          | GI-II                              |
| 7     | WR-NR  | 1) 765 kv Gwalior-Agra-D/C<br>2) Many Lines in NR at 400 kv level   | WR/NR            | 14.01.2016 | 23:02 | 15.01.2016 | 10:52 | 11:50           | 765kV Agra-Gwalior ckt-2 tripped on phase to earth fault at 23:02hrs & subsequently, 765kV Agra-Gwalior ckt-1 tripped on phase to earth fault at 23:08hrs. Agra-Gwalior SPS operation has also been reported due to tripping of both the lines at 02:58hrs. 765kV Agra-Bhatnagar tripped on 3-phase fault. Charging attempt also failed at 03:30hrs. 765kV Bhatnagar-Bikaner line also tripped at 03:22hrs on 3-phase fault. Charging attempt of this line failed at 04:13hrs. Thus 765/400kV ICT-1&2&4 of 765/400kV Bhatnagar (PG) reportedly tripped on differential protection in between 03:30hrs to 05:00hrs. 765/400kV ICT-3 of Bhatnagar (PG) also tripped on differential protection at 05:00 hrs. 400kV Agra-Awaraha both circuits tripped. 220kV III line between WR-NR, i.e. Auraya-Mahapur & Auraya-Mahapur line also tripped at 01:57hrs & 02:04hrs respectively. At 05:58hrs HVDC Agra-NR (Phase-1) tripped on DC line fault. During the morning hours of 12th Jan 2016, 400kV Prag-Bassi ckt-1 & 2 also tripped reportedly on phase to earth fault at 07:43hrs & 07:55hrs respectively.It resulted into critical situation in the Northern Region. |                     | 1000          | GI-II                              |
| 8     | WR     | 1) 220 kv Bina-Bina-V/C -II(M.P)<br>2)220 kvBina-Bina-V/C -II(M.P)<br>3) 220 kv Bina- Shivpur<br>4)220 kv Bina- Guna-I<br>5)220 kv Bina- Guna-I<br>6) 220 kv Bina(M.P) ICT-II & III<br>7)220 kv Bina(PG)-Bina-(M.P)<br>8) 220 kv Bina(M.P) BUS-I & II | MP               | 15.01.2016 | 15:33 | 15.01.2016 | 17:40 | 2:07            | 220 kv Bus Fault occurred at 400 KV S/S Bina(M.P) due to which elements given in column C tripped.  |                     | 400           | GD-I                               |

| S.No. | Region | Name of Elements   | Owner / Agency     | Outage     |       | Revival    |       | Outage Duration | Event   | Generation Loss(MW) | Load Loss(MW) | Category as per CEA Grid Standards |
|-------|--------|--|--------------------|------------|-------|------------|-------|-----------------|---|---------------------|---------------|------------------------------------|
|       |        |  |                    | Date       | Time  | Date       | Time  | Time            |   |                     |               |                                    |
| 9     | NR     | 1)765KV Anta-Phagi-I<br>2) 400KV Bhiwara-Chabra<br>3)400KV Chabra-Hindaun-II<br>4)400 KV Chabra-Kawal<br>5) Kawai, Kalsindh & Chabra Generating units  | Rajasthan/Adani/PG | 16.01.2016 | 1:30  | 16.01.2016 | 16:01 | 14:31           | 765kv Anta-Phagi-I, 400kv Bhiwara-Chabra, 400kv Chabra-Hindaun-II and 400 kv Chabra-Kawal tripped on distance protection due to Ground Fault.This led to loss of evacuation for all the generating units of Chabra, Kalsindh and Kawai.   | 2100                | 600           | GD-I                               |
| 10    | SR     | 1) 400 KV GUTTUR - HIRIYUR-I & II<br>2) 400 KV KAIGA - GUTTUR-II<br>3) 400 KV GUTTUR - NARENDRA-I & II<br>4) 400 KV MUNIRABAD - GUTTUR<br>5) 400/220 KV ICT 1 & 2 at GUTTUR  | Karnataka          | 17.01.2016 | 18:53 | 17.01.2016 | 20:26 | 1:33            | Due to Bus bar protection operation at 400 kv guttur station the elements given in column c tripped.  |                     |               | GI-II                              |
| 11    | ER     | 1)220KV Talcher TPS-TSPS<br>2) 220KV Talcher TPS-Rengali<br>3) 220KV Talcher TPS-MERAMANDALI D/C<br>4) 220KV Talcher TPS-JODA D/C<br>5) 220KV Talcher TPS-NALCO<br>6) All running units at Talcher TPS (UH1,2,3,4 of 60MW each and UH5&6 110MW each) | OPTCL              | 19.01.2016 | 10:51 | 19.01.2016 | 12:42 | 1:51            | All lines emanating from 220KV Talcher TPS (OPTCL) S/s got tripped along with all running units at Talcher TPS. There was a 3-phase fault (as per PMU observation) in any one of the emanating lines from 220KV Talcher TPS. The lines given in column C tripped, generating units tripped on no evacuation path and Sterilite unit#2 connected to STU (OPTCL) went on house load to 190 MW from 510 MW . | 760                 | 400           | GD-I                               |
| 12    | WR     | 1. 400 Kv Indore Main bus-1<br>2. 400/220 ICT-III at Indore<br>3. 400KV Indore-Indore(PG)-I<br>4. 400KV Indore-Hansi-I<br>5. 400KV Indore-ISP-I<br>6. 400KV Indore-Nagda S/C   | MPPTCL             | 20.01.2016 | 01:59 | 20.01.2016 | 02:53 | 0:54            | Bus bar protection operated on Main Bus-I at 400kv Indore(MP) S/S and all the connecting elements tripped. SLDC MP intimated that LBB of 400kv Indore-Nagda S/C operated. R-ph fault appeared at both ends on 400kv Indore-Nagda S/C and tripped at Nagda, but while tripping at Indore end LBB operated.   |                     |               | GI-II                              |
| 13    | SR     | 1) 230 kv Chekkanurani Station<br>2) 400/230 kv Madurai ICT-I & II   | TANTRANS CO        | 19.01.2016 | 11:57 | 19.01.2016 | 12:46 | 0:49            | In 230KV Sembatty S/s During Line fault Distance protection operated along with LBB protection,Resulting in the 230KV Bus Supply Failure.   |                     |               |                                    |
| 14    | SR     | 1) 220 kv Peenya-Neelamangala 1, 2 & 3<br>2) 220 KV Neelamangala -Yelahanka  | KPTCL              | 20.01.2016 | 16:33 | 20.01.2016 | 17:08 | 0:35            | Due to R-N Fault the lines given in column C tripped.   |                     | 578           | GD-I                               |
| 15    | NR     | 1) 400kv Dehar-Bhiwani (BBMB)<br>2) 500 MVA 400KV/220KV ICT<br>3) 400kv Bhiwani BBMB-Hisar PG<br>4) 400kv Bhiwani BBMB - Bhiwani PG  | BBMB               | 22.01.2016 | 21:18 | 22.01.2016 | 23:33 | 2:15            | The tripping occurred at Bhiwani (BBMB) while opening 400kv Dehar-Bhiwani (BBMB) line ( Y-ph pole of CB X-2 at Bhiwani (BBMB)blasted.500 MVA 400KV/220KV ICT also tripped and other lines 400kv Bhiwani BBMB-Hisar PG and 400KV Bhiwani BBMB - Bhiwani PG also tripped /Manually opened and Bhiwani BBMB 400kv side total black out occurred however 220kv lines at Bhiwani BBMB were intact.             |                     | 200           | GD-I                               |
| 16    | NR     | 1) 220 kv Wagoora(PG)-Zainkot(JK)-D/c  | J&K                | 24.01.2016 | 22:24 | 25.01.2016 | 11:27 | 13:03           | Due to tripping of 220 KV Wagoora-Zainkote D/C, around 380-400 MW load loss observed in J&K system. 220 KV Wagoora-Zainkote-2 restored at 22:40 hrs and around 190 MW load restored. 220 KV Wagoora-Zainkote-1 under outage due to Y-ph jumper snapping and around 200 MW load restriction in Kashmir valley reported due to outage of same line.   |                     | 380           | GD-I                               |
| 17    | NR     | 1) 400 kv Allahabad Rewa Road(400KV) - Panki<br>2) 400 kv Ballabgarh-Kanpur 2<br>3)400 kv Ballabgarh-Kanpur 3<br>4) 400 kv Auraiya(NTPC)-Kanpur(PG) 1<br>5) 400 kv Kanpur(PG)-Panki(LUP) 1   | PG/NTPC            | 30.01.2016 | 05:53 | 30.01.2016 | 08:18 | 2:25            | 400 kv Kanpur-Ballabgarh-II tripped due to blast in tuning unit of R phase wave trap. 400 kv Kanpur(PG)-Panki(LUP) 1 tripped on reverse zone from Kanpur. 400 kv Auraiya(NTPC)-Kanpur(PG) 1 tripped on stage 2 overvoltage.   | -                   | -             | GI-II                              |
| 18    | NR     | 1) 220 kv Auraiya(NTPC)-Malanpur(PG)<br>2) 220/132 kv ICT-II at Auraiya<br>3) Auraiya(NTPC) Unit-I,II & V(110 MW each)   | PG/NTPC            | 31.01.2016 | 10:22 | 31.01.2016 | 13:12 | 2:50            | At 220 kv Auraiya s/s, R-ph CT of interconnector of 220KV Bus-2 & Bus-4 blasted resulting in busbar protection operation of 220KV Bus-2 at Auraiya and causing tripping of all the 220KV lines & ICT-2 connected to Bus-2 at Auraiya.   | 300                 |               | GD-I                               |

\* Details are provisional in nature



| 18. NEW ELEMENTS COMMISSIONED in JANUARY-2016 |         |                 |                  |                   |         |               |          |            |
|---|---------|-----------------|------------------|-------------------|---------|---------------|----------|------------|
| COMMISSIONING OF NEW GENERATING UNITS         |         |                 |                  |                   |         |               |          |            |
| REGION  | SL. NO. | CONSTITUENT     | UNIT NAME        |                   | UNIT NO | CAPACITY (MW) | DATE     | TIME       |
| ER  | 1       | DVC             | Raghunathpur     |                   | 2       | 600           | 08.01.16 |            |
| COMMISSIONING OF NEW ICT'S                    |         |                 |                  |                   |         |               |          |            |
| REGION  | SL. NO. | CONSTITUENT     | VOLTAGE LEVEL    | SUB-STATION       | ICT NO  | CAPACITY      | DATE     | TIME       |
| NR  | 2       | UPPCL           | ---              | Anpara D          | 7       | ----          | 25.01.16 |            |
| WR  | 3       | GETCO           | 400/220          | Ranchodpura ICT-4 | 4       | 315           | 06.01.16 |            |
| ER  | 4       | PGCIL           | 400/220          | Muzaffarpur SS    | 3       | 500           | 03.01.16 |            |
|   | 5       |                 | 765/400          | Angul             | 3       | 1500          | 23.01.16 |            |
| COMMISSIONING OF NEW TRANSMISSION LINES       |         |                 |                  |                   |         |               |          |            |
| REGION  | SL. NO. | CONSTITUENT     | LINE NAME        |                   | CKT NO  | KV            | DATE     | TIME (Hrs) |
| WR  | 6       | Bhanpura MPPTCL | Badod-Nepania    |                   | I       | 220           | 14.01.16 |            |
|   | 7       |                 | Nepania-Bhanpura |                   | I       | 220           | 14.01.16 |            |
|   | 8       |                 | Bhanpura-Modak   |                   | I       | 220           | 14.01.16 |            |
| SR  | 9       | PGCIL           | Dhule-Dhule-I    |                   | I       | 400           | 11.01.16 |            |
|   | 10      |                 | Dhule-Dhule-II   |                   | II      | 400           | 11.01.16 |            |
| ER  | 11      | PGCIL           | Angul-Jharsuguda |                   | I       | 765           | 25.01.16 |            |

\*765KV lines charged at 400KV.

## विद्युत विभव रूपरेखा माह – जनवरी २०१६

## VOLTAGE PROFILE - JANUARY 2016

| क्र.स. Sl. No. | क्षेत्र REGION           | उपकेंद्र SUBSTATION              | VOLTAGE < V(lower)*<br>(V=122,380,728 kV) | V(lower) < VOLTAGE < V(upper)* | VOLTAGE > V(upper)*<br>(V=145,420,800 kV) | उच्चतम (कि.वी.)<br>Maximum(kV) | निम्नतम<br>(कि.वी.)<br>Minimum (kV) | औसत (कि.वी.)<br>Average (kV) |
|----------------|--------------------------|----------------------------------|---|--------------------------------|---|--------------------------------|-------------------------------------|------------------------------|
| 1              | पूर्वी क्षेत्र<br>ER     | फरक्का FARA KKA                  | 0%  | 79%                            | 21%                                       | 424                            | 408                                 | 417                          |
| 2              |                          | कहलगाँव KAHALGAON                | 0%  | 100%                           | 0%  | 418                            | 400                                 | 410                          |
| 3              |                          | तालचर TALCHER                    | 0%  | 100%                           | 0%  | 413                            | 397                                 | 404                          |
| 4              |                          | पूणिचा PURNEA                    | 0%  | 78%                            | 22%                                       | 435                            | 385                                 | 414                          |
| 5              |                          | मुजफ्फरपुर MUZAFFARPUR           | 0%  | 100%                           | 0%  | 418                            | 382                                 | 398                          |
| 6              |                          | जमशेदपुर JAMSHEDPUR              | 0%  | 1%                             | 99%                                       | 437                            | 418                                 | 426                          |
| 7              |                          | रंगाली RENGALI                   | 0%  | 100%                           | 0%  | 415                            | 398                                 | 406                          |
| 8              |                          | जेयपुर JEYPORE                   | 0%  | 98%                            | 1%  | 429                            | 369                                 | 404                          |
| 1              | उत्तरी क्षेत्र NR        | नल्लागढ़ NALLAGARH               | 0%  | 34%                            | 66%                                       | 437                            | 391                                 | 423                          |
| 2              |                          | भिवडी BHIWADI                    | 0%  | 60%                            | 40%                                       | 435                            | 399                                 | 418                          |
| 3              |                          | बल्लभगढ़ BALLABGARH              | 0%  | 67%                            | 33%                                       | 434                            | 397                                 | 417                          |
| 4              |                          | इलाहाबाद ALLAHABAD               | 0%  | 100%                           | 0%  | 414                            | 384                                 | 411                          |
| 5              |                          | हिसार HISSAR                     | 0%  | 97%                            | 3%  | 424                            | 393                                 | 410                          |
| 6              |                          | बवाना BAWANA                     | 0%  | 54%                            | 46%                                       | 431                            | 401                                 | 419                          |
| 7              |                          | कानपुर KANPUR                    | 0%  | 98%                            | 2%  | 424                            | 395                                 | 410                          |
| 8              |                          | बस्सी BASSI                      | 0%  | 94%                            | 6%  | 426                            | 381                                 | 408                          |
| 9              |                          | लखनऊ पावरग्रिड LUCKNOW PG 765 kV | 0%  | 100%                           | 0%  | 799                            | 739                                 | 770                          |
| 10             |                          | मोगा MOGA                        | 0%  | 91%                            | 9%  | 424                            | 395                                 | 413                          |
| 11             |                          | रतनगढ़ RATANGARH                 | 0%  | 100%                           | 0%  | 426                            | 382                                 | 405                          |
| 1              | पश्चिमी क्षेत्र<br>WR    | आसोज ASOJ                        | 0%  | 100%                           | 0%  | 420                            | 397                                 | 409                          |
| 2              |                          | इटारसी ITARSI                    | 0%  | 100%                           | 0%  | 419                            | 393                                 | 408                          |
| 3              |                          | जैतपुर JETPUR                    | 0%  | 100%                           | 0%  | 414                            | 397                                 | 406                          |
| 4              |                          | कासोर KASOR                      | 0%  | 71%                            | 29%                                       | 426                            | 409                                 | 418                          |
| 5              |                          | कोल्हापुर KOLHAPUR               | 0%  | 34%                            | 66%                                       | 436                            | 401                                 | 423                          |
| 6              |                          | बीना BINA                        | 0%  | 100%                           | 0%  | 421                            | 395                                 | 409                          |
| 7              |                          | ग्वालियर GWALIOR                 | 0%  | 100%                           | 0%  | 419                            | 380                                 | 404                          |
| 8              |                          | रायपुर RAIPUR                    | 0%  | 84%                            | 16%                                       | 425                            | 407                                 | 416                          |
| 9              |                          | जबलपुर JABALPUR                  | 0%  | 100%                           | 0%  | 421                            | 396                                 | 410                          |
| 10             |                          | धुले DHULE                       | 0%  | 69%                            | 31%                                       | 435                            | 393                                 | 416                          |
| 1              | दक्षिणी क्षेत्र<br>SR    | श्रीपेरुपुडुर SRIPERUPUDUR       | 0%  | 83%                            | 17%                                       | 426                            | 400                                 | 414                          |
| 2              |                          | नेवेली NEVELI                    | 0%  | 100%                           | 0%  | 413                            | 393                                 | 403                          |
| 3              |                          | सेलम SALEM                       | 0%  | 100%                           | 0%  | 420                            | 383                                 | 402                          |
| 4              |                          | बंगलूरु BANGALORE                | 0%  | 100%                           | 0%  | 415                            | 375                                 | 398                          |
| 5              |                          | होसुर HOSUR                      | 0%  | 100%                           | 0%  | 416                            | 379                                 | 398                          |
| 6              |                          | रामगुंडम RAMAGUNDAM              | 0%  | 100%                           | 0%  | 424                            | 407                                 | 416                          |
| 7              |                          | विजयवाड़ा VIJAYAWADA             | 0%  | 100%                           | 0%  | 437                            | 411                                 | 425                          |
| 8              |                          | तिरुवनंतपुरम TIRIVANDRUM         | 0%  | 100%                           | 0%  | 424                            | 380                                 | 403                          |
| 9              |                          | हैदराबाद HYDERABAD               | 0%  | 100%                           | 0%  | 429                            | 402                                 | 417                          |
| 1              | पूर्वार्ध क्षेत्र<br>NER | मिसा MISA                        | 0%  | 100%                           | 0%  | 429                            | 383                                 | 411                          |
| 2              |                          | बलिपारा BALIPARA                 | 0%  | 100%                           | 0%  | 434                            | 382                                 | 414                          |
| 3              |                          | बोंगईगाँव BONGAIGAON             | 0%  | 100%                           | 0%  | 420                            | 377                                 | 403                          |
| 4              |                          | हाफ्लोंग HAFLONG 132 kV          | 0%  | 100%                           | 0%  | 140                            | 127                                 | 134                          |
| 5              |                          | आइज़ोल AIZWAL 132 kV             | 1%  | 99%                            | 0%  | 139                            | 119                                 | 130                          |
| 6              |                          | कुमारघाट KUMARGHAT 132 kV        | 0%  | 100%                           | 0%  | 137                            | 127                                 | 133                          |
| 7              |                          | इम्फाल IMPHAL 132 kV             | 0%  | 100%                           | 0%  | 141                            | 125                                 | 134                          |
| 8              |                          | खलैरियट Khlieriat_PG 132 kV      | 0%  | 100%                           | 0%  | 137                            | 123                                 | 131                          |

\*Percentage is calculated w.r.t. Time of one month.

## CONSOLIDATED OUTAGE FIGURES

| Sr No.   | Description                                    | Jan-16        |                       |
|----------|--|---------------|-----------------------|
|          |  | No. of events | Total outage (in hrs) |
| <b>1</b> | <b>765kV Transmission lines</b>                |               |                       |
|          | a) Tripped on line Fault                       | 22            | 312:02                |
|          | b) Tripped on substation fault                 | 1             | 12:05                 |
|          | c) Opened on High Voltage                      | 171           | 5594:05               |
|          | d) Tripped on High Voltage                     | 32            | 504:48                |
|          | e) Planned shut down for construction activity | 14            | 188:12                |
|          | f) Planned shut down for O&M activity          | 47            | 758:00                |
|          | g) Opened for emergency shut down              | 5             | 90:04                 |
|          | h) Miscellaneous outage                        | 0             | 0:00                  |
|          | i) Tripped due to Maloperation                 | 7             | 10:20                 |
|          | <b>Total</b>                                   | <b>299</b>    | <b>7469:36</b>        |
|          | <b>Availability in terms of percentage</b>     |               | <b>88.72%</b>         |
| <b>2</b> | <b>HVDC Lines</b>                              |               |                       |
|          | a) Tripped on line Fault                       | 1             | 5:08                  |
|          | b) Tripped on Terminal station fault           | 14            | 681:12                |
|          | c) Opened on High Voltage                      | 7             | 33:02                 |
|          | d) Tripped on High Voltage                     | 0             | 0:00                  |
|          | e) Planned shut down for construction activity | 0             | 0:00                  |
|          | f) Planned shut down for O&M activity          | 12            | 208:46                |
|          | g) Opened for emergency shut down              | 3             | 13:08                 |
|          | h) Miscellaneous outage                        | 0             | 0:00                  |
|          | i) Tripped due to Maloperation                 | 4             | 16:07                 |
|          | <b>Total</b>                                   | <b>41</b>     | <b>957:23</b>         |
|          | <b>Availability in terms of percentage</b>     |               | <b>92.85%</b>         |
| <b>3</b> | <b>400kV Inter-regional lines</b>              |               |                       |
|          | a) Tripped on line Fault                       | 7             | 50:29                 |
|          | b) Tripped on substation fault                 | 0             | 0:00                  |
|          | c) Opened on High Voltage                      | 26            | 1472:59               |
|          | d) Tripped on High Voltage                     | 2             | 2:58                  |
|          | e) Planned shut down for construction activity | 8             | 98:02                 |
|          | f) Planned shut down for O&M activity          | 9             | 743:51                |
|          | g) Opened for emergency shut down              | 3             | 86:41                 |
|          | h) Miscellaneous outage                        | 0             | 0:00                  |
|          | i) Tripped due to Maloperation                 | 0             | 0:00                  |
|          | <b>Total</b>                                   | <b>55</b>     | <b>2455:00</b>        |
|          | <b>Availability in terms of percentage</b>     |               | <b>90.00%</b>         |

| Sr No.   | Description                                    | Jan-16        |                       |
|----------|--|---------------|-----------------------|
|          |  | No. of events | Total outage (in hrs) |
| <b>4</b> | <b>220kV Inter-regional lines</b>              |               |                       |
|          | a) Tripped on line Fault                       | 9             | 61:01                 |
|          | b) Tripped on substation fault                 | 1             | 2:50                  |
|          | c) Opened on High Voltage                      | 0             | 0:00                  |
|          | d) Tripped on High Voltage                     | 0             | 0:00                  |
|          | e) Planned shut down for construction activity | 0             | 0:00                  |
|          | f) Planned shut down for O&M activity          | 5             | 39:06                 |
|          | g) Opened for emergency shut down              | 4             | 25:41                 |
|          | h) Miscellaneous outage                        | 0             | 0:00                  |
|          | i) Tripped due to Maloperation                 | 0             | 0:00                  |
|          | <b>Total</b>                                   | <b>19</b>     | <b>128:38</b>         |
|          | <b>Availability in terms of percentage</b>     |               | <b>98.85%</b>         |
| <b>5</b> | <b>765/400kV ICTs</b>                          |               |                       |
|          | a) Tripped due to line trippings               | 0             | 0:00                  |
|          | b) Tripped due to substation fault             | 1             | 2:06                  |
|          | c) Planned shut down for construction activity | 0             | 0:00                  |
|          | d) Planned shut down for O&M activity          | 19            | 181:55                |
|          | e) Opened for emergency shut down              | 3             | 17:29                 |
|          | f) Miscellaneous outage                        | 8             | 61:39                 |
|          | g) Tripped due to Maloperation                 | 2             | 12:36                 |
|          | <b>Total</b>                                   | <b>33</b>     | <b>275:45</b>         |
|          | <b>Availability in terms of percentage</b>     |               | <b>99.66%</b>         |
| <b>6</b> | <b>765kV Bus Reactors</b>                      |               |                       |
|          | a) Opened on low voltage                       | 0             | 0:00                  |
|          | b) Tripping of Bus Reactor                     | 0             | 0:00                  |
|          | b) Planned shut down for construction activity | 0             | 0:00                  |
|          | c) Planned shut down for O&M activity          | 9             | 180:34                |
|          | d) Opened for emergency shut down              | 2             | 18:48                 |
|          | e) Miscellaneous outage                        | 0             | 0:00                  |
|          | f) Tripped due to Maloperation                 | 0             | 0:00                  |
|          | <b>Total</b>                                   | <b>11</b>     | <b>199:22</b>         |
|          | <b>Availability in terms of percentage</b>     |               | <b>99.53%</b>         |
|          | <b>Grand Total</b>                             | <b>458</b>    | <b>11485:44</b>       |

|  |               |
|--|---------------|
| <b>Grand Availability in terms of percentage</b> | <b>95.18%</b> |
|--|---------------|

| <b>Sl. No.</b> | <b>Name of Element</b>            | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|-----------------------------------|--|---|
| 1              | 765 kV Sasaram-Fatehpur           | 0  | 3   |
| 2              | 765 kV Gaya-Fatehpur              | 0  | 1   |
| 3              | 765 kV Gaya-Balia                 | 0  | 2   |
| 4              | 765 kV Gwalior-Agra-I             | 2  | 3   |
| 5              | 765 kV Gwalior-Agra-II            | 2  | 3   |
| 6              | 765 kV New Ranchi-Dharamjaygarh   | 3  | 5   |
| 7              | 765 kV Jharsuguda-Dharmjaygarh-I  | 0  | 1   |
| 8              | 765 kV Jharsuguda-Dharmjaygarh-II | 0  | 2   |
| 9              | 765 kV Solapur-Raichur-I          | 0  | 6   |
| 10             | 765 kV Solapur-Raichur-II         | 1  | 7   |
| 11             | 765kV Anpara C-Unnao              | 2  | 3   |
| 12             | 765kV Anpara C-Anpara D           | 0  | 2   |
| 13             | 765kV Antah-Phagi-I               | 1  | 7   |
| 14             | 765kV Lucknow(PG)-Bareilly(PG)-I  | 1  | 4   |
| 15             | 765kV Antah-Phagi-II              | 3  | 6   |
| 16             | 765kV Balia-Lucknow               | 1  | 2   |
| 17             | 765kV Fatehpur-Agra-I             | 1  | 6   |
| 18             | 765kV Fatehpur-Agra-II            | 0  | 2   |
| 19             | 765kV Moga-Bhiwani(PG)            | 2  | 2   |
| 20             | 765kV Jhatikara-Bhiwani(PG)       | 2  | 3   |
| 21             | 765kV Agra-Jhatikara              | 2  | 6   |
| 22             | 765kV Meerut-Bhiwani(PG)          | 0  | 0   |

| <b>Sl. No.</b> | <b>Name of Element</b>      | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|-----------------------------|--|---|
| 23             | 765 kV Moga-Meerut          | 1  | 5   |
| 24             | 765kV Agra-Meerut           | 0  | 2   |
| 25             | 765kV Akola-Koradi-I        | 0  | 4   |
| 26             | 765kV Akola-Koradi-II       | 0  | 1   |
| 27             | 765kV Tirora-Koradi-I       | 0  | 0   |
| 28             | 765kV Tirora-Koradi-II      | 0  | 0   |
| 29             | 765kV Sipat-Bilaspur-I      | 0  | 1   |
| 30             | 765kV Sipat-Bilaspur-II     | 0  | 1   |
| 31             | 765kV Seoni-Bilaspur-I      | 0  | 0   |
| 32             | 765kV Seoni-Bilaspur-II     | 0  | 0   |
| 33             | 765kV Wardha-Aurangabad-I   | 3  | 16  |
| 34             | 765kV Wardha-Aurangabad-II  | 1  | 12  |
| 35             | 765kV Wardha-Aurangabad-III | 0  | 2   |
| 36             | 765kV Wardha-Aurangabad-IV  | 0  | 5   |
| 37             | 765kV Satna-Gwalior-I       | 0  | 4   |
| 38             | 765kV Satna-Gwalior-II      | 0  | 2   |
| 39             | 765kV Seoni-Wardha-I        | 1  | 4   |
| 40             | 765kV Seoni-Wardha-II       | 0  | 16  |
| 41             | 765kV Satna-Bina-I          | 0  | 4   |
| 42             | 765kV Satna-Bina-II         | 0  | 1   |
| 43             | 765kV Seoni-Bina-I          | 0  | 2   |
| 44             | 765kV Bina-Gwalior-I        | 1  | 1   |

| <b>Sl. No.</b> | <b>Name of Element</b>                     | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|--|--|---|
| 45             | 765kV Bina-Gwalior-II                      | 0  | 1   |
| 46             | 765kV Bina-Gwalior-III                     | 0  | 2   |
| 47             | 765kV Sasan-Satna-I                        | 1  | 1   |
| 48             | 765kV Pune-Sholapur                        | 5  | 12  |
| 49             | 765kV Aurangabad-Dhule(BDTCL)              | 0  | 3   |
| 50             | 765kV Bina-Indore                          | 1  | 3   |
| 51             | 765kV Indore-Bhopal                        | 1  | 10  |
| 52             | 765kV Sasan-Satna-II                       | 0  | 0   |
| 53             | 765kV Durg-Wardha-I                        | 0  | 6   |
| 54             | 765kV Durg-Wardha-II                       | 0  | 5   |
| 55             | 765kV Dharamjaigarh-Raipur-PS(DURG)        | 0  | 0   |
| 56             | 765kV Bilaspur-Dharamjaigarh               | 0  | 0   |
| 57             | 765kV Bina-Jabalpur-I                      | 0  | 1   |
| 58             | 765kV Bina-Jabalpur-II                     | 0  | 1   |
| 59             | 765kV Indore-Vadodara                      | 0  | 6   |
| 60             | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I  | 0  | 0   |
| 61             | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II | 0  | 1   |
| 62             | 765kV Raigarh-PS(Kotra)-Tamnar-I           | 0  | 0   |
| 63             | 765kV Raigarh-PS(Kotra)-Tamnar-II          | 0  | 0   |
| 64             | 765kV Dhule-Vadodara                       | 0  | 5   |
| 65             | 765kV Tiroda-Akola                         | 0  | 0   |
| 66             | 765kV Sasan - Vindhyachal PS               | 0  | 0   |

| <b>Sl. No.</b> | <b>Name of Element</b>          | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|---------------------------------|--|---|
| 67             | 765kV Vindhyachal-Satna-I       | 0  | 2   |
| 68             | 765kV Vindhyachal-Satna-II      | 0  | 1   |
| 69             | 765 kV Durg-Champa-I            | 1  | 7   |
| 70             | 765 kV Kotra-Champa-I           | 0  | 2   |
| 71             | 765kV Angul-Jharsuguda-II       | 0  | 3   |
| 72             | 765kV Raichur-Kurnool           | 0  | 3   |
| 73             | 765kV Kurnool-Nellore(PS)-I     | 0  | 6   |
| 74             | 765kV Kurnool-Nellore(PS)-II    | 1  | 2   |
| 75             | 765kV Kurnool-Thiruvalem-I      | 3  | 15  |
| 76             | 765kV Kurnool-Thiruvalem-II     | 1  | 20  |
| 77             | 400 kV Muzaffarpur-Gorakhpur-I  | 0  | 0   |
| 78             | 400 kV Muzaffarpur-Gorakhpur-II | 0  | 1   |
| 79             | 400 kV Patna-Balia-I            | 0  | 0   |
| 80             | 400 kV Patna-Balia-II           | 0  | 0   |
| 81             | 400 kV Patna-Balia-III          | 0  | 0   |
| 82             | 400 kV Patna-Balia-IV           | 1  | 2   |
| 83             | 400 kV Biharshariff-Balia-I     | 0  | 0   |
| 84             | 400 kV Biharshariff-Balia-II    | 0  | 2   |
| 85             | 400 kV Sasaram-Allahabad        | 0  | 0   |
| 86             | 400 kV Barh-Gorakhpur-I         | 2  | 6   |
| 87             | 400 kV Barh-Gorakhpur-II        | 0  | 8   |
| 88             | 400 kV Sasaram-Sarnath          | 0  | 0   |



| <b>Sl. No.</b> | <b>Name of Element</b>         | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|--------------------------------|--|---|
| 89             | 400 kV Barh-Gorakhpur-I        | 2  | 6   |
| 90             | 400 kV Barh-Gorakhpur-II       | 0  | 8   |
| 91             | 400 kV Zerda-Kankaroli         | 0  | 1   |
| 92             | 400 kV Zerda-Bhinmal           | 0  | 1   |
| 93             | 400 kV Vindhyachal-Rihand      | 0  | 0   |
| 94             | 400 kV Siliguri-Bongaigaon-I   | 0  | 0   |
| 95             | 400 kV Siliguri-Bongaigaon-II  | 1  | 9   |
| 96             | 400 kV Siliguri-Bongaigaon-III | 0  | 8   |
| 97             | 400 kV Siliguri-Bongaigaon-IV  | 1  | 8   |
| 98             | 400 kV Rourkela-Raigarh        | 0  | 4   |
| 99             | 400 kV Sterlite-Raigarh        | 0  | 1   |
| 100            | 400 kV Jharsuguda-Raigarh-I    | 0  | 3   |
| 101            | 400 kV IBEUL-Raigarh-I         | 0  | 7   |
| 102            | 400 kV Ranchi-Sipat-I          | 0  | 0   |
| 103            | 400 kV Ranchi-Sipat-II         | 0  | 1   |
| 104            | 400 kV Jeypore-Gazuwaka-I      | 3  | 4   |
| 105            | 400 kV Jeypore-Gazuwaka-II     | 1  | 4   |
| 106            | 400 kV Tala - Binaguri - I     | 0  | 2   |
| 107            | 400 kV Tala - Binaguri - II    | 0  | 2   |
| 108            | 400 kV Tala - Binaguri - IV    | 0  | 2   |
| 109            | 400 kV Malbase - Binaguri - I  | 0  | 1   |
| 110            | 220 kV Chukha - Birpara - I    | 0  | 12  |

| <b>Sl. No.</b> | <b>Name of Element</b>        | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|-------------------------------|--|---|
| 111            | 220 kV Chukha - Birpara - II  | 0  | 12  |
| 112            | 220 kV Malbase - Birpara      | 0  | 2   |
| 113            | Bheramara HVDC                | 0  | 0   |
| 114            | 132 kV Mahendernagar-Tanakpur | 0  | 0   |
| 115            | Pusauli                       | 2  | 4   |
| 116            | Vindhyachal Pole-I            | 0  | 5   |
| 117            | Vindhyachal Pole-II           | 0  | 5   |
| 118            | Mundra-Mahendragarh-Pole-I    | 1  | 5   |
| 119            | Mundra-Mahendragarh Pole-II   | 1  | 7   |
| 120            | Bhadrawati Pole-I             | 2  | 8   |
| 121            | Bhadrawati Pole-II            | 0  | 6   |
| 122            | Gazuwaka Pole-I               | 3  | 6   |
| 123            | Gazuwaka Pole-II              | 0  | 3   |
| 124            | Talcher-Kolar Pole-I          | 0  | 1   |
| 125            | Talcher-Kolar Pole-II         | 0  | 2   |
| 126            | Rihand-Dadri Pole-I           | 1  | 5   |
| 127            | Rihand-Dadri Pole-II          | 0  | 3   |
| 128            | Balia-Bhiwadi Pole-I          | 1  | 6   |
| 129            | Balia-Bhiwadi Pole-II         | 1  | 5   |
| 130            | Chandrapur-Padghe pole-I      | 0  | 0   |
| 131            | Chandrapur-Padghe pole-II     | 0  | 0   |
| 132            | 220 kV Pusauli-Sahupuri       | 1  | 6   |

| <b>Sl. No.</b> | <b>Name of Element</b>               | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|--------------------------------------|--|---|
| 133            | 220 kV Badod-Modak                   | 1  | 4   |
| 134            | 220 kV Badod-Kota                    | 2  | 8   |
| 135            | 220 kV Malanpur-Auraiya              | 5  | 12  |
| 136            | 220 kV Mehgaon-Auraiya               | 1  | 5   |
| 137            | 220 kV Birpara-Salakati-I            | 0  | 15  |
| 138            | 220 kV Birpara-Salakati-II           | 0  | 19  |
| 139            | 220 kV Budhipadar-Korba-II           | 0  | 9   |
| 140            | 220 kV Budhipadar-Korba-III          | 0  | 4   |
| 141            | 220 kV Budhipadar-Raigarh            | 0  | 2   |
| 142            | 220 kV Mudasangi (Kolhapur)-Chikkodi | 0  | 5   |
| 143            | 220 kV Talangde-Chikkodi             | 0  | 6   |
| 144            | 220kV Ponda-Ambewadi                 | 0  | 0   |
| 145            | 220kV Xeldom-Ambewadi                | 0  | 0   |
| 146            | 220 kV Balimela - U.Sileru           | 0  | 0   |
| 147            | Udaipur -Neemuch 1                   | 0  | 0   |
| 148            | Ranapratap Sagar-Gandhi Sagar 1      | 0  | 0   |
| 149            | Ranapratap Sagar-Gandhi Sagar 2      | 0  | 0   |
| 150            | Sawai Madhopur - Seopar Kalan 1      | 0  | 0   |
| 151            | 765kV Jabalpur-Bhopal                | 0  | 2   |
| 152            | 765kV Bina-Jabalpur-III              | 0  | 0   |
| 153            | 400 kV Bhadrawati-Ramagundam-I       | 0  | 0   |
| 154            | 400 kV Bhadrawati-Ramagundam-II      | 0  | 2   |

| <b>Sl. No.</b> | <b>Name of Element</b>             | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|------------------------------------|--|---|
| 155            | 765kV Vindhyachal-Satna-II         | 0  | 1   |
| 156            | 765 kV Gwalior-Phagi-I             | 2  | 3   |
| 157            | 765 kV Gwalior-Phagi-II            | 0  | 1   |
| 158            | 765kV Phagi-Bhiwani-I              | 0  | 0   |
| 159            | 765kV Jabalpur-Dharamjaigarh-III   | 0  | 1   |
| 160            | 765kV Jabalpur-Dharamjaigarh-IV    | 0  | 1   |
| 161            | 765kV Aurangabad-Sholapur-I        | 2  | 4   |
| 162            | 765kV Aurangabad-Sholapur-II       | 0  | 0   |
| 163            | 765kV Jabalpur-Dharamjaigarh-I     | 0  | 0   |
| 164            | 765kV Jabalpur-Dharamjaigarh-II    | 0  | 0   |
| 165            | 400 kV Kolhapur-Kudgi-I            | 0  | 0   |
| 166            | 400 kV Kolhapur-Kudgi-II           | 0  | 0   |
| 167            | 400 kV Behramara-Behrampore-I      | 0  | 0   |
| 168            | 400 kV Behramara-Behrampore-II     | 0  | 0   |
| 169            | Biswanath Chariali-Agra Pole-I     | 7  | 18  |
| 170            | 400 kV Kolhapur-Kudgi-I            | 0  | 0   |
| 171            | 400 kV Kolhapur-Kudgi-II           | 0  | 0   |
| 172            | 400 kV Behramara-Behrampore-I      | 0  | 0   |
| 173            | 400 kV Behramara-Behrampore-II     | 0  | 0   |
| 174            | 765kV Raichur-Kurnool-I            | 8  | 9   |
| 175            | 765kV Raichur-Kurnool-II           | 4  | 4   |
| 176            | 765 kV New Ranchi-Dharamjaygarh-II | 2  | 2   |

| <b>Sl. No.</b> | <b>Name of Element</b>   | <b>Cumulative Trippings January 2015</b> | <b>Cumulative Tripping for Year 2015-16</b> |
|----------------|--------------------------|--|---|
| 177            | 765kV Angul-Jharsuguda-I | 0  | 0   |
| 178            |                          | 0  |   |
| 179            |                          | 0  |   |
| 180            |                          | 0  |   |
| 181            |                          | 0  |   |
| 182            |                          | 0  |   |
| 183            |                          | 0  |   |
| 184            |                          | 0  |   |
| 185            |                          | 0  |   |
| 186            |                          | 0  |   |
| 187            |                          | 0  |   |
| 188            |                          | 0  |   |
| 189            |                          | 0  |   |
| 190            |                          | 0  |   |

## List of Tripping of Elements monitored by NLDC for the month of January 2016

| S. No.           | Name of Transmission Element   | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication                                    | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks              |
|------------------|--------------------------------|---------------------|-----------------|------------|------------------------|--|---------------------------|-----------|--|---------------------------|
| <b>HVDC - IR</b> |                                |                     |                 |            |                        |  |                           |           |  |                           |
| 1                | Bhadrawati Pole-I              | HVDC                | WR/SR           | TS         | 01-01-2016 00:00       | DC Differential Protection optd                                  | 08-01-2016 23:57          | 191:57:00 | 1  |                           |
| 2                | Vindhyachal Pole-I             | HVDC                | WR/NR           | SE         | 01-01-2016 11:22       | SF <sub>6</sub> gas leakage                                      | 01-01-2016 13:26          | 2:04:00   | 0  |                           |
| 3                | Biswanath Chariali-Agra Pole-I | HVDC                | NER/NR          | TP         | 02-01-2016 12:14       | Signal generated due to fire                                     | 02-01-2016 15:23          | 3:09:00   | 1  |                           |
| 4                | Gazuwaka Pole-I                | HVDC                | ER/SR           | TP         | 03-01-2016 15:51       | VALVE WINDING AC OVER VOLTAGE ON SOUTH SIDE PROTECTION OPERATION | 03-01-2016 17:15          | 1:24:00   | 1  |                           |
| 5                | Gazuwaka Pole-I                | HVDC                | ER/SR           | TS         | 03-01-2016 18:10       | THYRISTOR CONTROL CARD PROBLEM                                   | 03-01-2016 23:16          | 5:06:00   | 2  |                           |
| 6                | Biswanath Chariali-Agra Pole-I | HVDC                | NER/NR          | SO         | 04-01-2016 15:50       | Protection Tripping testing                                      | 04-01-2016 16:21          | 0:31:00   | 1  | Missing in NRLDC records. |
| 7                | Biswanath Chariali-Agra Pole-I | HVDC                | NER/NR          | TS         | 05-01-2016 09:48       | VESDA alarm at Agra HVDC   | 05-01-2016 14:27          | 4:39:00   | 2  |                           |
| 8                | Biswanath Chariali-Agra Pole-I | HVDC                | NER/NR          | TS         | 06-01-2016 07:35       | Valve cooling problem at Agra end                                | 06-01-2016 09:19          | 1:44:00   | 3  | Missing in NRLDC records. |
| 9                | Mundra-Mahendragarh-Pole-I     | HVDC                | WR/NR           | TS         | 08-01-2016 06:41       | LA blast, neutral side of pole-II at mahendragarh end            | 08-01-2016 11:29          | 4:48:00   | 1  |                           |
| 10               | Mundra-Mahendragarh Pole-II    | HVDC                | WR/NR           | TS         | 08-01-2016 06:41       | LA blast, neutral side of pole-II at mahendragarh end            | 08-01-2016 11:21          | 4:40:00   | 1  |                           |
| 11               | Talcher-Kolar Pole-II          | HVDC                | ER/SR           | SO         | 09-01-2016 07:20       | AMP works  | 09-01-2016 19:59          | 12:39:00  | 0  |                           |
| 12               | Talcher-Kolar Pole-I           | HVDC                | ER/SR           | SO         | 09-01-2016 07:32       | AMP works  | 11-01-2016 20:05          | 60:33:00  | 0  |                           |
| 13               | Bhadrawati Pole-I              | HVDC                | WR/SR           | TS         | 09-01-2016 05:08       | VALVE BASED ELECTRONIC PROBLEM                                   | 09-01-2016 11:08          | 6:00:00   | 2  |                           |
| 14               | Talcher-Kolar Pole-II          | HVDC                | ER/SR           | SO         | 10-01-2016 07:49       | AMP works  | 10-01-2016 18:58          | 11:09:00  | 0  |                           |
| 15               | Pusauli                        | HVDC                | ER/NR           | TS         | 10-01-2016 08:40       | Auxiliary supply failure   | 10-01-2016 10:39          | 1:59:00   | 1  |                           |
| 16               | Pusauli                        | HVDC                | ER/NR           | TS         | 10-01-2016 20:32       | Auxiliary supply failure   | 10-01-2016 22:01          | 1:29:00   | 2  |                           |
| 17               | Talcher-Kolar Pole-II          | HVDC                | ER/SR           | SO         | 11-01-2016 07:53       | AMP works  | 13-01-2016 18:09          | 58:16:00  | 0  |                           |
| 18               | Talcher-Kolar Pole-I           | HVDC                | ER/SR           | SO         | 12-01-2016 10:33       | AMP works  | 12-01-2016 19:30          | 8:57:00   | 0  |                           |
| 19               | Biswanath Chariali-Agra Pole-I | HVDC                | NER/NR          | MO         | 12-01-2016 08:02       | To control line loading between NER and ER                       | 12-01-2016 19:14          | 11:12:00  | 3  |                           |
| 20               | Gazuwaka Pole-I                | HVDC                | ER/SR           | TS         | 12-01-2016 21:28       | Due to low DC  | 12-01-2016 22:33          | 1:05:00   | 3  |                           |
| 21               | Talcher-Kolar Pole-I           | HVDC                | ER/SR           | SO         | 13-01-2016 07:47       | AMP works  | 14-01-2016 18:43          | 34:56:00  | 0  |                           |
| 22               | Biswanath Chariali-Agra Pole-I | HVDC                | NER/NR          | MO         | 13-01-2016 14:25       | To avail emergency S/D 400kV Banka-BSF-2                         | 13-01-2016 18:00          | 3:35:00   | 3  |                           |
| 23               | Biswanath Chariali-Agra Pole-I | HVDC                | NER/NR          | MO         | 14-01-2016 07:31       | To control flow in WR-NR   | 14-01-2016 08:27          | 0:56:00   | 3  |                           |

| S. No.                 | Name of Transmission Element       | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication  | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks              |
|------------------------|------------------------------------|---------------------|-----------------|------------|------------------------|--|---------------------------|-----------|--|---------------------------|
| 24                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | TL         | 15-01-2016 05:50       | Distance Protection operated   | 15-01-2016 10:58          | 5:08:00   | 4  | Restored in RVO           |
| 25                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | MO         | 30-01-2016 19:28       | Blocked to reverse flow  | 30-01-2016 19:52          | 0:24:00   | 4  | Missing in NRLDC records. |
| 26                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | MO         | 20-01-2016 09:24       | Blocked to facilitate S/D of 765 KV Agra-Gwalior-1   | 20-01-2016 21:41          | 12:17:00  | 4  |                           |
| 27                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | TS         | 20-01-2016 21:49       | Smoke detection alarm at Agra  | 20-01-2016 23:34          | 1:45:00   | 5  | Missing in NRLDC records. |
| 28                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | TS         | 21-01-2016 21:48       | Detail Awaited   | 21-01-2016 22:30          | 0:42:00   | 6  | Missing in NRLDC records. |
| 29                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | SO         | 22-01-2016 10:05       | To facilitate SD of Gwalior - Agra - 2   | 22-01-2016 10:43          | 0:38:00   | 6  |                           |
| 30                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | MO         | 25-01-2016 07:05       | Manually blocked to control ER-NER flow  | 25-01-2016 11:27          | 4:22:00   | 6  | Missing in NRLDC records. |
| 31                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | MO         | 30-01-2016 12:41       | to facilitate E S/d of 765 kV ICT-1 at Gwalior   | 30-01-2016 12:57          | 0:16:00   | 6  | Missing in NRLDC records. |
| 32                     | Biswanath Chariali-Agra Pole-I     | HVDC                | NER/NR          | TP         | 30-01-2016 13:07       | pole 1 emergency stop initiated from PSI 11B   | 30-01-2016 13:37          | 0:30:00   | 7  | Missing in NRLDC records. |
| 33                     | Talcher-Kolar Pole-II              | HVDC                | ER/SR           | SE         | 21-01-2016 14:55       | EMERGENCY S/D DUE TO VALVE COOLING SYSTEM SIDE PROBLEM   | 21-01-2016 21:09          | 6:14:00   | 0  |                           |
| <b>HVDC - Internal</b> |                                    |                     |                 |            |                        |  |                           |           |  |                           |
| 34                     | Rihand-Dadri Pole-II               | HVDC                | NR              | SO         | 25-01-2016 10:45       | rectify defect in R-phase convertor transformer  | 25-01-2016 14:06          | 3:21:00   | 0  |                           |
| 35                     | Balia-Bhiwadi Pole-II              | HVDC                | NR              | TS         | 19-01-2016 15:58       | Fire in smoothening reactor  | 27-01-2016 12:48          | 188:50:00 | 1  |                           |
| 36                     | Rihand-Dadri Pole-I                | HVDC                | NR              | TP         | 23-01-2016 07:22       | Smoothening reactor buchholz relay operated at Dadri   | 23-01-2016 18:26          | 11:04:00  | 1  |                           |
| 37                     | Balia-Bhiwadi Pole-I               | HVDC                | NR              | TS         | 19-01-2016 15:58       | Fire in smoothening reactor  | 30-01-2016 18:26          | 266:28:00 | 1  |                           |
| 38                     | Balia-Bhiwadi Pole-II              | HVDC                | NR              | SO         | 31-01-2016 09:35       | For RTV Coating  | 31-01-2016 19:54          | 10:19:00  | 1  |                           |
| 39                     | Rihand-Dadri Pole-II               | HVDC                | NR              | SE         | 13-01-2016 14:59       | To replace failed thyristor  | 13-01-2016 19:49          | 4:50:00   | 0  |                           |
| 40                     | Rihand-Dadri Pole-I                | HVDC                | NR              | SO         | 17-01-2016 13:18       | For topping up oil in Main Tank transformer pole-1 B phase                                     | 17-01-2016 17:05          | 3:47:00   | 1  |                           |
| 41                     | Rihand-Dadri Pole-II               | HVDC                | NR              | SO         | 19-01-2016 10:59       | To attend hot spot Converter xmer oil top up at Rihand end                                     | 19-01-2016 14:39          | 3:40:00   | 0  |                           |
| <b>765 kV - IR</b>     |                                    |                     |                 |            |                        |  |                           |           |  |                           |
| 42                     | 765 kV Gaya-Fatehpur               | Line                | ER/NR           | SO         | 07-01-2016 11:48       | To attend hot spot   | 07-01-2016 17:08          | 5:20:00   | 0  |                           |
| 43                     | 765 kV Gaya-Fatehpur               | Line                | ER/NR           | SC         | 17-01-2016 08:31       | For stringing work (power line crossing) at loc 166/0&167/0 of 765kV Varanasi -Balialine       | 17-01-2016 19:21          | 10:50:00  | 0  |                           |
| 44                     | 765 kV Gaya-Fatehpur               | Line                | ER/NR           | SC         | 18-01-2016 10:02       | For stringing work (power line crossing) at loc 166/0&167/0 of 765kV Varanasi -Balialine (line | 18-01-2016 19:32          | 9:30:00   | 0  |                           |
| 45                     | 765 kV New Ranchi-Dharamjaygarh-II | Line                | ER/WR           | TP         | 12-01-2016 11:48       | Relay maloperation   | 12-01-2016 13:18          | 1:30:00   | 1  |                           |
| 46                     | 765 kV New Ranchi-Dharamjaygarh-II | Line                | ER/WR           | TP         | 14-01-2016 10:44       | DC earth Fault   | 14-01-2016 12:48          | 2:04:00   | 2  |                           |

| S. No.                 | Name of Transmission Element    | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication   | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks |
|------------------------|---------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|-----------|--|--------------|
| 47                     | 765 kV New Ranchi-Dharamjaygarh | Line                | ER/WR           | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage   | 06-01-2016 18:58          | 138:58:00 | 0  |              |
| 48                     | 765 kV New Ranchi-Dharamjaygarh | Line                | ER/WR           | TV         | 08-01-2016 11:06       | Tripped on Over Voltage   | 08-01-2016 13:44          | 2:38:00   | 1  |              |
| 49                     | 765 kV New Ranchi-Dharamjaygarh | Line                | ER/WR           | TP         | 12-01-2016 11:48       | Relay maloperation  | 12-01-2016 13:02          | 1:14:00   | 2  |              |
| 50                     | 765 kV New Ranchi-Dharamjaygarh | Line                | ER/WR           | TP         | 14-01-2016 10:44       | DC earth Fault  | 14-01-2016 12:06          | 1:22:00   | 3  |              |
| 51                     | 765 kV Gwalior-Phagi-II         | Line                | WR/NR           | SO         | 28-01-2016 08:58       | Insulator cleaning  | 28-01-2016 19:31          | 10:33:00  | 0  |              |
| 52                     | 765 kV Gwalior-Phagi-I          | Line                | WR/NR           | TL         | 16-01-2016 02:21       | Due to dense fog  | 16-01-2016 10:40          | 8:19:00   | 1  |              |
| 53                     | 765 kV Gwalior-Phagi-I          | Line                | WR/NR           | SO         | 27-01-2016 09:23       | For insulator cleaning and replacement of flashed over insulators in the line | 27-01-2016 20:00          | 10:37:00  | 1  |              |
| 54                     | 765 kV Gwalior-Phagi-I          | Line                | WR/NR           | SO         | 29-01-2016 08:50       | Insulator cleaning  | 29-01-2016 19:16          | 10:26:00  | 1  |              |
| 55                     | 765 kV Gwalior-Phagi-I          | Line                | WR/NR           | TP         | 30-01-2016 21:30       | Direct trip received at Phagi end   | 30-01-2016 22:23          | 0:53:00   | 2  |              |
| 56                     | 765 kV Gwalior-Agra-II          | Line                | WR/NR           | TL         | 14-01-2016 07:14       | Distance Protection operated  | 14-01-2016 12:26          | 5:12:00   | 1  |              |
| 57                     | 765 kV Gwalior-Agra-II          | Line                | WR/NR           | TL         | 14-01-2016 23:02       | Distance Protection operated  | 15-01-2016 20:02          | 21:00:00  | 2  |              |
| 58                     | 765 kV Gwalior-Agra-II          | Line                | WR/NR           | SO         | 20-01-2016 14:20       | Insulator cleaning  | 20-01-2016 20:01          | 5:41:00   | 2  |              |
| 59                     | 765 kV Gwalior-Agra-II          | Line                | WR/NR           | SO         | 21-01-2016 09:45       | Insulator cleaning  | 21-01-2016 20:04          | 10:19:00  | 2  |              |
| 60                     | 765 kV Gwalior-Agra-II          | Line                | WR/NR           | SO         | 22-01-2016 10:20       | Insulator cleaning  | 22-01-2016 18:45          | 8:25:00   | 2  |              |
| 61                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | TL         | 14-01-2016 07:30       | Distance Protection operated  | 14-01-2016 12:15          | 4:45:00   | 1  |              |
| 62                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | SO         | 14-01-2016 14:07       | Insulator cleaning  | 14-01-2016 19:06          | 4:59:00   | 1  |              |
| 63                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | TL         | 14-01-2016 23:08       | Distance Protection operated  | 15-01-2016 10:52          | 11:44:00  | 2  |              |
| 64                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | SO         | 16-01-2016 11:13       | For insulator cleaning work   | 16-01-2016 20:31          | 9:18:00   | 2  |              |
| 65                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | SO         | 17-01-2016 09:28       | Insulator cleaning  | 17-01-2016 19:58          | 10:30:00  | 2  |              |
| 66                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | SO         | 18-01-2016 09:58       | Insulator cleaning  | 18-01-2016 20:13          | 10:15:00  | 2  |              |
| 67                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | SO         | 19-01-2016 12:09       | Insulator cleaning  | 19-01-2016 20:34          | 8:25:00   | 2  |              |
| 68                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | SO         | 20-01-2016 09:52       | Insulator cleaning  | 20-01-2016 14:12          | 4:20:00   | 2  |              |
| 69                     | 765 kV Gwalior-Agra-I           | Line                | WR/NR           | SO         | 24-01-2016 09:50       | Insulator cleaning  | 24-01-2016 20:54          | 11:04:00  | 2  |              |
| 70                     | 765 kV Solapur-Raichur-II       | Line                | WR/SR           | TL         | 02-01-2016 10:46       | Conductor snapping  | 07-01-2016 13:03          | 122:17:00 | 1  |              |
| <b>765 kV Internal</b> |                                 |                     |                 |            |                        |   |                           |           |  |              |



| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication  | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|--|---------------------------|----------|--|--------------|
| 71     | 765kV Moga-Bhiwani(PG)       | Line                | NR              | TV         | 11-01-2016 21:03       | Tripped on Over Voltage  | 11-01-2016 21:37          | 0:34:00  | 1  |              |
| 72     | 765kV Moga-Bhiwani(PG)       | Line                | NR              | TL         | 18-01-2016 07:57       | Distance Protection operated   | 18-01-2016 19:51          | 11:54:00 | 2  |              |
| 73     | 765kV Moga-Bhiwani(PG)       | Line                | NR              | SO         | 25-01-2016 09:44       | Urgent SD for replacement of flashed over glass insulators and other maintenance works | 25-01-2016 19:36          | 9:52:00  | 2  |              |
| 74     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage  | 01-01-2016 06:37          | 6:37:00  | 0  |              |
| 75     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 01-01-2016 21:39       | Opened manually due to High Voltage  | 02-01-2016 09:56          | 12:17:00 | 0  |              |
| 76     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 02-01-2016 22:15       | Opened manually due to High Voltage  | 03-01-2016 09:09          | 10:54:00 | 0  |              |
| 77     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 03-01-2016 21:41       | Opened manually due to High Voltage  | 04-01-2016 08:10          | 10:29:00 | 0  |              |
| 78     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 04-01-2016 21:14       | Opened manually due to High Voltage  | 05-01-2016 08:06          | 10:52:00 | 0  |              |
| 79     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 05-01-2016 21:43       | Opened manually due to High Voltage  | 06-01-2016 09:26          | 11:43:00 | 0  |              |
| 80     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 06-01-2016 21:50       | Opened manually due to High Voltage  | 07-01-2016 09:33          | 11:43:00 | 0  |              |
| 81     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 07-01-2016 22:06       | Opened manually due to High Voltage  | 08-01-2016 11:19          | 13:13:00 | 0  |              |
| 82     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 08-01-2016 22:13       | Opened manually due to High Voltage  | 09-01-2016 09:35          | 11:22:00 | 0  |              |
| 83     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 09-01-2016 21:13       | Opened manually due to High Voltage  | 10-01-2016 09:17          | 12:04:00 | 0  |              |
| 84     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 10-01-2016 20:59       | Opened manually due to High Voltage  | 11-01-2016 07:48          | 10:49:00 | 0  |              |
| 85     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 11-01-2016 21:01       | Opened manually due to High Voltage  | 12-01-2016 08:42          | 11:41:00 | 0  |              |
| 86     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 12-01-2016 21:09       | Opened manually due to High Voltage  | 13-01-2016 09:20          | 12:11:00 | 0  |              |
| 87     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 14-01-2016 22:06       | Opened manually due to High Voltage  | 15-01-2016 05:49          | 7:43:00  | 0  |              |
| 88     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 15-01-2016 23:29       | Opened manually due to High Voltage  | 16-01-2016 09:08          | 9:39:00  | 0  |              |
| 89     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 16-01-2016 20:08       | Opened manually due to High Voltage  | 18-01-2016 09:06          | 36:58:00 | 0  |              |
| 90     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 18-01-2016 21:52       | Opened manually due to High Voltage  | 19-01-2016 09:06          | 11:14:00 | 0  |              |
| 91     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 22-01-2016 01:13       | Opened manually due to High Voltage  | 22-01-2016 09:38          | 8:25:00  | 0  |              |
| 92     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 23-01-2016 01:36       | Opened manually due to High Voltage  | 23-01-2016 09:39          | 8:03:00  | 0  |              |
| 93     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 24-01-2016 02:24       | Opened manually due to High Voltage  | 24-01-2016 08:31          | 6:07:00  | 0  |              |
| 94     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 24-01-2016 21:37       | Opened manually due to High Voltage  | 25-01-2016 09:32          | 11:55:00 | 0  |              |
| 95     | 765kV Meerut-Bhiwani(PG)     | Line                | NR              | MO         | 26-01-2016 01:36       | Opened manually due to High Voltage  | 26-01-2016 07:35          | 5:59:00  | 0  |              |

| S. No. | Name of Transmission Element     | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication  | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks |
|--------|----------------------------------|---------------------|-----------------|------------|------------------------|--|---------------------------|----------|--|--------------|
| 96     | 765kV Meerut-Bhiwani(PG)         | Line                | NR              | MO         | 26-01-2016 20:21       | Opened manually due to High Voltage                                      | 27-01-2016 07:16          | 10:55:00 | 0  |              |
| 97     | 765kV Meerut-Bhiwani(PG)         | Line                | NR              | MO         | 30-01-2016 02:42       | Opened manually due to High Voltage                                      | 30-01-2016 07:37          | 4:55:00  | 0  |              |
| 98     | 765kV Meerut-Bhiwani(PG)         | Line                | NR              | MO         | 31-01-2016 21:54       | Opened manually due to High Voltage                                      | 01-02-2016 00:00          | 2:06:00  | 0  |              |
| 99     | 765kV Lucknow(PG)-Bareilly(PG)-I | Line                | NR              | TL         | 21-01-2016 13:23       | Distance Protection operated   | 21-01-2016 13:23          | 0:00:00  | 1  |              |
| 100    | 765kV Jhatikara-Bhiwani(PG)      | Line                | NR              | TL         | 08-01-2016 03:40       | Due to dense fog   | 08-01-2016 11:17          | 7:37:00  | 1  |              |
| 101    | 765kV Jhatikara-Bhiwani(PG)      | Line                | NR              | TL         | 15-01-2016 03:22       | Due to dense fog   | 15-01-2016 21:05          | 17:43:00 | 2  |              |
| 102    | 765kV Jhatikara-Bhiwani(PG)      | Line                | NR              | SO         | 19-01-2016 08:45       | Insulator cleaning   | 19-01-2016 14:09          | 5:24:00  | 2  |              |
| 103    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                                      | 01-01-2016 06:10          | 6:10:00  | 0  |              |
| 104    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 02-01-2016 22:24       | Opened manually due to High Voltage                                      | 03-01-2016 09:09          | 10:45:00 | 0  |              |
| 105    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 05-01-2016 21:42       | Opened manually due to High Voltage                                      | 06-01-2016 09:14          | 11:32:00 | 0  |              |
| 106    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 07-01-2016 21:06       | Opened manually due to High Voltage                                      | 08-01-2016 08:43          | 11:37:00 | 0  |              |
| 107    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 08-01-2016 23:01       | Opened manually due to High Voltage                                      | 09-01-2016 07:35          | 8:34:00  | 0  |              |
| 108    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 09-01-2016 21:04       | Opened manually due to High Voltage                                      | 10-01-2016 08:31          | 11:27:00 | 0  |              |
| 109    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 10-01-2016 20:35       | Opened manually due to High Voltage                                      | 11-01-2016 07:30          | 10:55:00 | 0  |              |
| 110    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 12-01-2016 20:55       | Opened manually due to High Voltage                                      | 13-01-2016 07:40          | 10:45:00 | 0  |              |
| 111    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 13-01-2016 21:57       | Opened manually due to High Voltage                                      | 14-01-2016 07:33          | 9:36:00  | 0  |              |
| 112    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 14-01-2016 21:45       | Opened manually due to High Voltage                                      | 15-01-2016 08:10          | 10:25:00 | 0  |              |
| 113    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 15-01-2016 20:50       | Opened manually due to High Voltage                                      | 16-01-2016 08:50          | 12:00:00 | 0  |              |
| 114    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 16-01-2016 21:48       | Opened manually due to High Voltage                                      | 17-01-2016 06:06          | 8:18:00  | 0  |              |
| 115    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 17-01-2016 20:33       | Opened manually due to High Voltage                                      | 18-01-2016 08:53          | 12:20:00 | 0  |              |
| 116    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 18-01-2016 20:48       | Opened manually due to High Voltage                                      | 19-01-2016 09:15          | 12:27:00 | 0  |              |
| 117    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 19-01-2016 21:05       | Opened manually due to High Voltage                                      | 20-01-2016 07:06          | 10:01:00 | 0  |              |
| 118    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 20-01-2016 21:27       | Opened manually due to High Voltage                                      | 21-01-2016 07:59          | 10:32:00 | 0  |              |
| 119    | 765kV Fatehpur-Agra-II           | Line                | NR              | MO         | 21-01-2016 22:01       | Opened manually due to High Voltage                                      | 22-01-2016 10:03          | 12:02:00 | 0  |              |
| 120    | 765kV Fatehpur-Agra-II           | Line                | NR              | SC         | 27-01-2016 08:39       | For stringing(power line crossing) of 800kV Champa-Kurukshetra HVDC line | 27-01-2016 20:07          | 11:28:00 | 0  |              |

| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication  | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks                |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|--|---------------------------|----------|--|-----------------------------|
| 121    | 765kV Fatehpur-Agra-II       | Line                | NR              | MO         | 28-01-2016 04:40       | Opened manually due to High Voltage                                      | 28-01-2016 08:16          | 3:36:00  | 0  |                             |
| 122    | 765kV Fatehpur-Agra-II       | Line                | NR              | SC         | 28-01-2016 08:16       | For stringing(power line crossing) of 800kV Champa-Kurukshetra HVDC line | 28-01-2016 19:03          | 10:47:00 | 0  | Line open on OV taken in SD |
| 123    | 765kV Fatehpur-Agra-II       | Line                | NR              | MO         | 28-01-2016 23:02       | Opened manually due to High Voltage                                      | 29-01-2016 07:16          | 8:14:00  | 0  |                             |
| 124    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 01-01-2016 21:12       | Opened manually due to High Voltage                                      | 02-01-2016 07:28          | 10:16:00 | 0  |                             |
| 125    | 765kV Fatehpur-Agra-I        | Line                | NR              | SC         | 14-01-2016 12:55       | Stringing(power line crossing) of 800kV HVDC Champa-Kurukshetra line     | 14-01-2016 19:51          | 6:56:00  | 0  |                             |
| 126    | 765kV Fatehpur-Agra-I        | Line                | NR              | TV         | 14-01-2016 23:50       | Tripped on Over Voltage  | 15-01-2016 04:57          | 5:07:00  | 1  |                             |
| 127    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 16-01-2016 02:04       | Opened manually due to High Voltage                                      | 16-01-2016 02:31          | 0:27:00  | 1  |                             |
| 128    | 765kV Fatehpur-Agra-I        | Line                | NR              | SC         | 16-01-2016 09:43       | Stringing of 800 kV HVDC Champa-Kurukshetra                              | 16-01-2016 20:57          | 11:14:00 | 1  |                             |
| 129    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 22-01-2016 21:54       | Opened manually due to High Voltage                                      | 23-01-2016 09:33          | 11:39:00 | 1  |                             |
| 130    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 24-01-2016 02:20       | Opened manually due to High Voltage                                      | 24-01-2016 08:11          | 5:51:00  | 1  |                             |
| 131    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 24-01-2016 20:58       | Opened manually due to High Voltage                                      | 25-01-2016 08:33          | 11:35:00 | 1  |                             |
| 132    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 26-01-2016 01:40       | Opened manually due to High Voltage                                      | 26-01-2016 08:27          | 6:47:00  | 1  |                             |
| 133    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 26-01-2016 21:41       | Opened manually due to High Voltage                                      | 27-01-2016 07:22          | 9:41:00  | 1  |                             |
| 134    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 29-01-2016 20:39       | Opened manually due to High Voltage                                      | 30-01-2016 07:42          | 11:03:00 | 1  |                             |
| 135    | 765kV Fatehpur-Agra-I        | Line                | NR              | MO         | 31-01-2016 20:14       | Opened manually due to High Voltage                                      | 01-02-2016 00:00          | 3:46:00  | 1  |                             |
| 136    | 765kV Balia-Lucknow          | Line                | NR              | TL         | 19-01-2016 13:17       | Distance Protection operated   | 19-01-2016 22:20          | 9:03:00  | 1  |                             |
| 137    | 765kV Antah-Phagi-II         | Line                | NR              | TL         | 15-01-2016 06:38       | Due to dense fog   | 15-01-2016 07:20          | 0:42:00  | 1  |                             |
| 138    | 765kV Antah-Phagi-II         | Line                | NR              | TL         | 16-01-2016 00:36       | Distance Protection operated   | 16-01-2016 14:59          | 14:23:00 | 2  |                             |
| 139    | 765kV Antah-Phagi-II         | Line                | NR              | TL         | 15-01-2016 07:39       | Due to dense fog   | 15-01-2016 20:35          | 12:56:00 | 3  |                             |
| 140    | 765kV Antah-Phagi-I          | Line                | NR              | TL         | 16-01-2016 01:30       | Distance Protection operated   | 16-01-2016 11:07          | 9:37:00  | 1  |                             |
| 141    | 765kV Anpara C-Unnao         | Line                | NR              | TS         | 18-01-2016 04:10       | Bus bar protection operated  | 18-01-2016 16:15          | 12:05:00 | 1  |                             |
| 142    | 765kV Anpara C-Unnao         | Line                | NR              | TL         | 19-01-2016 13:22       | Distance Protection operated   | 19-01-2016 13:56          | 0:34:00  | 2  |                             |
| 143    | 765kV Agra-Meerut            | Line                | NR              | SC         | 30-01-2016 09:34       | For stringing ( power line crossing )of 765kV Mainpuri-Hapur line        | 30-01-2016 18:52          | 9:18:00  | 0  |                             |
| 144    | 765kV Agra-Jhatikara         | Line                | NR              | TL         | 08-01-2016 03:40       | Due to dense fog   | 08-01-2016 22:43          | 19:03:00 | 1  |                             |
| 145    | 765kV Agra-Jhatikara         | Line                | NR              | TL         | 15-01-2016 02:56       | Due to dense fog   | 15-01-2016 19:35          | 16:39:00 | 2  |                             |

| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication       | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|-------------------------------------|---------------------------|----------|--|--------------|
| 146    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage | 01-01-2016 05:48          | 5:48:00  | 0  |              |
| 147    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 01-01-2016 21:17       | Opened manually due to High Voltage | 04-01-2016 10:20          | 61:03:00 | 0  |              |
| 148    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 04-01-2016 20:48       | Opened manually due to High Voltage | 05-01-2016 08:43          | 11:55:00 | 0  |              |
| 149    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 05-01-2016 21:04       | Opened manually due to High Voltage | 06-01-2016 06:52          | 9:48:00  | 0  |              |
| 150    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 08-01-2016 01:38       | Opened manually due to High Voltage | 08-01-2016 08:58          | 7:20:00  | 0  |              |
| 151    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 09-01-2016 02:05       | Opened manually due to High Voltage | 09-01-2016 07:22          | 5:17:00  | 0  |              |
| 152    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 09-01-2016 21:12       | Opened manually due to High Voltage | 10-01-2016 08:35          | 11:23:00 | 0  |              |
| 153    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 10-01-2016 20:38       | Opened manually due to High Voltage | 11-01-2016 07:44          | 11:06:00 | 0  |              |
| 154    | 765 kV Moga-Meerut           | Line                | NR              | TV         | 11-01-2016 21:03       | Tripped on Over Voltage             | 12-01-2016 08:44          | 11:41:00 | 1  |              |
| 155    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 12-01-2016 20:50       | Opened manually due to High Voltage | 13-01-2016 08:03          | 11:13:00 | 1  |              |
| 156    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 13-01-2016 21:57       | Opened manually due to High Voltage | 15-01-2016 12:48          | 38:51:00 | 1  |              |
| 157    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 15-01-2016 21:38       | Opened manually due to High Voltage | 16-01-2016 06:17          | 8:39:00  | 1  |              |
| 158    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 16-01-2016 21:09       | Opened manually due to High Voltage | 17-01-2016 07:57          | 10:48:00 | 1  |              |
| 159    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 17-01-2016 21:44       | Opened manually due to High Voltage | 18-01-2016 08:24          | 10:40:00 | 1  |              |
| 160    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 18-01-2016 20:51       | Opened manually due to High Voltage | 19-01-2016 09:45          | 12:54:00 | 1  |              |
| 161    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 19-01-2016 21:21       | Opened manually due to High Voltage | 20-01-2016 06:45          | 9:24:00  | 1  |              |
| 162    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 20-01-2016 21:52       | Opened manually due to High Voltage | 21-01-2016 13:13          | 15:21:00 | 1  |              |
| 163    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 21-01-2016 21:57       | Opened manually due to High Voltage | 22-01-2016 08:18          | 10:21:00 | 1  |              |
| 164    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 22-01-2016 21:49       | Opened manually due to High Voltage | 23-01-2016 09:38          | 11:49:00 | 1  |              |
| 165    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 23-01-2016 20:04       | Opened manually due to High Voltage | 24-01-2016 09:42          | 13:38:00 | 1  |              |
| 166    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 24-01-2016 20:52       | Opened manually due to High Voltage | 25-01-2016 08:06          | 11:14:00 | 1  |              |
| 167    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 25-01-2016 21:17       | Opened manually due to High Voltage | 26-01-2016 09:36          | 12:19:00 | 1  |              |
| 168    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 26-01-2016 20:05       | Opened manually due to High Voltage | 27-01-2016 07:16          | 11:11:00 | 1  |              |
| 169    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 27-01-2016 20:56       | Opened manually due to High Voltage | 28-01-2016 08:13          | 11:17:00 | 1  |              |
| 170    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 28-01-2016 21:01       | Opened manually due to High Voltage | 29-01-2016 07:11          | 10:10:00 | 1  |              |

| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication                                       | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks  |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|----------|--|---------------|
| 171    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 29-01-2016 21:34       | Opened manually due to High Voltage                                 | 30-01-2016 08:42          | 11:08:00 | 1  |               |
| 172    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 30-01-2016 21:47       | Opened manually due to High Voltage                                 | 31-01-2016 09:49          | 12:02:00 | 1  |               |
| 173    | 765 kV Moga-Meerut           | Line                | NR              | MO         | 31-01-2016 19:45       | Opened manually due to High Voltage                                 | 01-02-2016 00:00          | 4:15:00  | 1  |               |
| 174    | 765kV Wardha-Aurangabad-IV   | Line                | WR              | MO         | 03-01-2016 07:47       | Opened manually due to High Voltage                                 | 04-01-2016 06:41          | 22:54:00 | 0  |               |
| 175    | 765kV Wardha-Aurangabad-IV   | Line                | WR              | SO         | 23-01-2016 10:19       | JUMPER TIGHTENING WORKS   | 24-01-2016 07:39          | 21:20:00 | 0  |               |
| 176    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                                 | 01-01-2016 07:26          | 7:26:00  | 0  |               |
| 177    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 01-01-2016 17:24       | Opened manually due to High Voltage                                 | 02-01-2016 07:18          | 13:54:00 | 0  |               |
| 178    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 02-01-2016 16:14       | Opened manually due to High Voltage                                 | 03-01-2016 07:40          | 15:26:00 | 0  |               |
| 179    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 04-01-2016 17:27       | Opened manually due to High Voltage                                 | 06-01-2016 06:52          | 37:25:00 | 0  |               |
| 180    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 06-01-2016 17:10       | Opened manually due to High Voltage                                 | 07-01-2016 09:34          | 16:24:00 | 0  |               |
| 181    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 07-01-2016 17:24       | Opened manually due to High Voltage                                 | 10-01-2016 07:48          | 62:24:00 | 0  |               |
| 182    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 10-01-2016 17:27       | Opened manually due to High Voltage                                 | 12-01-2016 07:03          | 37:36:00 | 0  |               |
| 183    | 765kV Wardha-Aurangabad-III  | Line                | WR              | SE         | 12-01-2016 10:27       | problem in closing of Line Isolator & its earthswitch at Wardha S/S | 14-01-2016 07:18          | 44:51:00 | 0  | To be checked |
| 184    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 14-01-2016 17:23       | Opened manually due to High Voltage                                 | 16-01-2016 07:18          | 37:55:00 | 0  |               |
| 185    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 16-01-2016 16:30       | Opened manually due to High Voltage                                 | 17-01-2016 07:03          | 14:33:00 | 0  |               |
| 186    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 18-01-2016 18:15       | Opened manually due to High Voltage                                 | 20-01-2016 05:48          | 35:33:00 | 0  |               |
| 187    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 21-01-2016 21:08       | Opened manually due to High Voltage                                 | 22-01-2016 07:49          | 10:41:00 | 0  |               |
| 188    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 24-01-2016 16:14       | Opened manually due to High Voltage                                 | 25-01-2016 11:49          | 19:35:00 | 0  |               |
| 189    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 27-01-2016 18:04       | Opened manually due to High Voltage                                 | 29-01-2016 07:37          | 37:33:00 | 0  |               |
| 190    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 29-01-2016 17:22       | Opened manually due to High Voltage                                 | 31-01-2016 07:00          | 37:38:00 | 0  |               |
| 191    | 765kV Wardha-Aurangabad-III  | Line                | WR              | MO         | 31-01-2016 13:57       | Opened manually due to High Voltage                                 | 01-02-2016 00:00          | 10:03:00 | 0  |               |
| 192    | 765kV Wardha-Aurangabad-II   | Line                | WR              | SO         | 04-01-2016 08:42       | Commissioning of CSD  | 05-01-2016 07:22          | 22:40:00 | 0  |               |
| 193    | 765kV Wardha-Aurangabad-II   | Line                | WR              | TV         | 17-01-2016 18:01       | Tripped on Over Voltage   | 18-01-2016 07:33          | 13:32:00 | 1  |               |
| 194    | 765kV Wardha-Aurangabad-II   | Line                | WR              | SO         | 20-01-2016 08:42       | Jumper Tightening work  | 20-01-2016 18:02          | 9:20:00  | 1  |               |
| 195    | 765kV Wardha-Aurangabad-II   | Line                | WR              | SO         | 25-01-2016 11:56       | Insulator replacement work and jumper tightening work               | 25-01-2016 20:48          | 8:52:00  | 1  |               |

| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication                       | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks            |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|----------|--|-------------------------|
| 196    | 765kV Wardha-Aurangabad-II   | Line                | WR              | MO         | 25-01-2016 20:48       | Opened manually due to High Voltage                 | 27-01-2016 06:52          | 34:04:00 | 1  | Not charged after SD    |
| 197    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                 | 03-01-2016 06:51          | 54:51:00 | 0  |                         |
| 198    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 03-01-2016 13:18       | Opened manually due to High Voltage                 | 04-01-2016 08:28          | 19:10:00 | 0  |                         |
| 199    | 765kV Wardha-Aurangabad-I    | Line                | WR              | TV         | 05-01-2016 18:02       | Tripped on Over Voltage                             | 08-01-2016 10:10          | 64:08:00 | 1  |                         |
| 200    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 08-01-2016 17:36       | Opened manually due to High Voltage                 | 09-01-2016 07:22          | 13:46:00 | 1  |                         |
| 201    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 09-01-2016 19:54       | Opened manually due to High Voltage                 | 11-01-2016 06:50          | 34:56:00 | 1  |                         |
| 202    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 11-01-2016 18:01       | Opened manually due to High Voltage                 | 12-01-2016 10:18          | 16:17:00 | 1  |                         |
| 203    | 765kV Wardha-Aurangabad-I    | Line                | WR              | TV         | 12-01-2016 18:01       | Tripped on Over Voltage                             | 13-01-2016 07:15          | 13:14:00 | 2  |                         |
| 204    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 13-01-2016 18:16       | Opened manually due to High Voltage                 | 14-01-2016 09:50          | 15:34:00 | 2  |                         |
| 205    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 14-01-2016 12:02       | Opened manually due to High Voltage                 | 15-01-2016 09:09          | 21:07:00 | 2  |                         |
| 206    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 15-01-2016 17:06       | Opened manually due to High Voltage                 | 19-01-2016 07:00          | 85:54:00 | 2  |                         |
| 207    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 19-01-2016 17:59       | Opened manually due to High Voltage                 | 20-01-2016 08:15          | 14:16:00 | 2  |                         |
| 208    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 20-01-2016 18:41       | Opened manually due to High Voltage                 | 21-01-2016 07:35          | 12:54:00 | 2  |                         |
| 209    | 765kV Wardha-Aurangabad-I    | Line                | WR              | TV         | 22-01-2016 18:04       | Tripped on Over Voltage                             | 23-01-2016 07:46          | 13:42:00 | 3  |                         |
| 210    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 23-01-2016 17:57       | Opened manually due to High Voltage                 | 25-01-2016 07:16          | 37:19:00 | 3  |                         |
| 211    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 25-01-2016 17:07       | Opened manually due to High Voltage                 | 28-01-2016 05:40          | 60:33:00 | 3  |                         |
| 212    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 28-01-2016 18:05       | Opened manually due to High Voltage                 | 30-01-2016 07:27          | 37:22:00 | 3  |                         |
| 213    | 765kV Wardha-Aurangabad-I    | Line                | WR              | MO         | 30-01-2016 17:45       | Opened manually due to High Voltage                 | 01-02-2016 00:00          | 30:15:00 | 3  |                         |
| 214    | 765kV Tirora-Koradi-I        | Line                | WR              | SO         | 08-01-2016 12:16       | REPLACEMENT WORK OF Line Reactor                    | 09-01-2016 18:56          | 30:40:00 | 0  |                         |
| 215    | 765kV Tirora-Koradi-I        | Line                | WR              | SO         | 21-01-2016 19:31       | to facilitate outage of tie bay of akola-tiroda-2   | 21-01-2016 20:48          | 1:17:00  | 0  |                         |
| 216    | 765kV Seoni-Wardha-II        | Line                | WR              | SO         | 16-01-2016 09:36       | AMP works   | 16-01-2016 18:22          | 8:46:00  | 0  |                         |
| 217    | 765kV Seoni-Wardha-II        | Line                | WR              | SO         | 29-01-2016 08:03       | Insulator replacement for Railways and NH crossings | 30-01-2016 18:24          | 34:21:00 | 0  |                         |
| 218    | 765kV Seoni-Wardha-I         | Line                | WR              | SO         | 08-01-2016 09:36       | AMP works   | 08-01-2016 18:48          | 9:12:00  | 0  |                         |
| 219    | 765kV Seoni-Wardha-I         | Line                | WR              | SE         | 17-01-2016 12:16       | To remove OPGW wire which is hanging over conductor | 18-01-2016 08:17          | 20:01:00 | 0  | No record in WRLDC site |
| 220    | 765kV Seoni-Wardha-I         | Line                | WR              | TL         | 19-01-2016 02:20       | Distance Protection operated                        | 19-01-2016 02:32          | 0:12:00  | 1  |                         |

| S. No. | Name of Transmission Element               | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication                                      | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks |
|--------|--|---------------------|-----------------|------------|------------------------|--|---------------------------|-----------|--|--------------|
| 221    | 765kV Seoni-Wardha-I                       | Line                | WR              | SO         | 25-01-2016 09:22       | Variable frequency tan delta measurement of Bushings and AMP work  | 25-01-2016 19:13          | 9:51:00   | 1  |              |
| 222    | 765kV Seoni-Bina-I                         | Line                | WR              | SO         | 10-01-2016 08:26       | AMP works  | 10-01-2016 18:41          | 10:15:00  | 0  |              |
| 223    | 765kV Seoni-Bilaspur-I                     | Line                | WR              | SO         | 05-01-2016 09:27       | Variable frequency tan delta test of bushing                       | 05-01-2016 19:18          | 9:51:00   | 0  |              |
| 224    | 765kV Seoni-Bilaspur-I                     | Line                | WR              | SO         | 06-01-2016 08:35       | Refixing of open quad spacer                                       | 06-01-2016 19:05          | 10:30:00  | 0  |              |
| 225    | 765kV Seoni-Bilaspur-I                     | Line                | WR              | SC         | 23-01-2016 09:12       | Construction of 800KV HVDC Champa-Kuru                             | 23-01-2016 18:58          | 9:46:00   | 0  |              |
| 226    | 765kV Sasan-Satna-I                        | Line                | WR              | TL         | 19-01-2016 02:07       | Distance Protection operated                                       | 19-01-2016 10:36          | 8:29:00   | 1  |              |
| 227    | 765kV Raigarh-PS(Kotra)-Tamnar-II          | Line                | WR              | SO         | 30-01-2016 10:28       | AMP works  | 30-01-2016 18:44          | 8:16:00   | 0  |              |
| 228    | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                                | 04-01-2016 07:59          | 79:59:00  | 0  |              |
| 229    | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II | Line                | WR              | SO         | 04-01-2016 07:59       | Isolator & SCADA Problem at Durg                                   | 04-01-2016 11:23          | 3:24:00   | 0  |              |
| 230    | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II | Line                | WR              | SO         | 22-01-2016 09:34       | Replacemnet of broken insulator and attending hot spot of Jumpers  | 25-01-2016 19:11          | 81:37:00  | 0  |              |
| 231    | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-II | Line                | WR              | MO         | 25-01-2016 19:11       | Opened manually due to High Voltage                                | 27-01-2016 09:35          | 38:24:00  | 0  |              |
| 232    | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I  | Line                | WR              | MO         | 04-01-2016 11:50       | Opened manually due to High Voltage                                | 21-01-2016 18:18          | 414:28:00 | 0  |              |
| 233    | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I  | Line                | WR              | SO         | 22-01-2016 09:34       | Replacemnet of broken insulator and attending hot spot of Jumpers  | 25-01-2016 20:49          | 83:15:00  | 0  |              |
| 234    | 765kV Raigarh-PS(Kotra)-Raipur-PS(Durg)-I  | Line                | WR              | MO         | 27-01-2016 10:37       | Opened manually due to High Voltage                                | 01-02-2016 00:00          | 109:23:00 | 0  |              |
| 235    | 765kV Pune-Sholapur                        | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                                | 01-01-2016 07:31          | 7:31:00   | 0  |              |
| 236    | 765kV Pune-Sholapur                        | Line                | WR              | TV         | 02-01-2016 19:56       | Tripped on Over Voltage  | 02-01-2016 21:16          | 1:20:00   | 1  |              |
| 237    | 765kV Pune-Sholapur                        | Line                | WR              | TV         | 07-01-2016 03:01       | Tripped on Over Voltage  | 07-01-2016 07:49          | 4:48:00   | 2  |              |
| 238    | 765kV Pune-Sholapur                        | Line                | WR              | TP         | 09-01-2016 10:32       | Tripped while availing S/D of 765 kV Solapur Main Bay at Pune(GIS) | 09-01-2016 11:50          | 1:18:00   | 3  |              |
| 239    | 765kV Pune-Sholapur                        | Line                | WR              | MO         | 23-01-2016 02:59       | Opened manually due to High Voltage                                | 23-01-2016 06:58          | 3:59:00   | 3  |              |
| 240    | 765kV Pune-Sholapur                        | Line                | WR              | TV         | 26-01-2016 18:04       | Tripped on Over Voltage  | 27-01-2016 07:04          | 13:00:00  | 4  |              |
| 241    | 765kV Pune-Sholapur                        | Line                | WR              | TV         | 31-01-2016 18:02       | Tripped on Over Voltage  | 31-01-2016 18:36          | 0:34:00   | 5  |              |
| 242    | 765kV Jabalpur-Dharamjaigarh-IV            | Line                | WR              | SO         | 20-01-2016 12:59       | Spare Reactor Phase Swapping                                       | 20-01-2016 20:41          | 7:42:00   | 0  |              |
| 243    | 765kV Jabalpur-Dharamjaigarh-III           | Line                | WR              | MO         | 06-01-2016 19:39       | Opened manually due to High Voltage                                | 20-01-2016 12:33          | 328:54:00 | 0  |              |
| 244    | 765kV Jabalpur-Dharamjaigarh-I             | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                                | 05-01-2016 09:27          | 105:27:00 | 0  |              |
| 245    | 765kV Jabalpur-Dharamjaigarh-I             | Line                | WR              | MO         | 20-01-2016 20:12       | Opened manually due to High Voltage                                | 31-01-2016 19:55          | 263:43:00 | 0  |              |

| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication                             | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks             |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|----------|--|--------------------------|
| 246    | 765kV Jabalpur-Bhopal        | Line                | WR              | SO         | 12-01-2016 09:21       | AMP works   | 12-01-2016 18:53          | 9:32:00  | 0  |                          |
| 247    | 765kV Indore-Vadodara        | Line                | WR              | SE         | 05-01-2016 10:38       | Testing by Manufacturer                                   | 05-01-2016 20:49          | 10:11:00 | 0  | No record in WRLDC site  |
| 248    | 765kV Indore-Vadodara        | Line                | WR              | SO         | 23-01-2016 09:03       | For checking of Gas Compartment Zone Trippings            | 23-01-2016 18:36          | 9:33:00  | 0  |                          |
| 249    | 765kV Indore-Bhopal          | Line                | WR              | TL         | 18-01-2016 17:39       | Distance Protection operated                              | 18-01-2016 18:24          | 0:45:00  | 1  |                          |
| 250    | 765kV Durg-Wardha-II         | Line                | WR              | MO         | 17-01-2016 22:14       | Opened manually due to High Voltage                       | 18-01-2016 06:53          | 8:39:00  | 0  |                          |
| 251    | 765kV Durg-Wardha-II         | Line                | WR              | SO         | 18-01-2016 12:21       | Rectification of jumpering and balance Fire fighting work | 18-01-2016 18:53          | 6:32:00  | 0  |                          |
| 252    | 765kV Durg-Wardha-II         | Line                | WR              | MO         | 18-01-2016 22:32       | Opened manually due to High Voltage                       | 19-01-2016 09:51          | 11:19:00 | 0  |                          |
| 253    | 765kV Durg-Wardha-II         | Line                | WR              | MO         | 20-01-2016 22:08       | Opened manually due to High Voltage                       | 21-01-2016 07:08          | 9:00:00  | 0  |                          |
| 254    | 765kV Durg-Wardha-II         | Line                | WR              | MO         | 21-01-2016 23:06       | Opened manually due to High Voltage                       | 22-01-2016 06:47          | 7:41:00  | 0  |                          |
| 255    | 765kV Durg-Wardha-II         | Line                | WR              | MO         | 25-01-2016 22:08       | Opened manually due to High Voltage                       | 26-01-2016 07:08          | 9:00:00  | 0  |                          |
| 256    | 765kV Durg-Wardha-I          | Line                | WR              | MO         | 19-01-2016 23:35       | Opened manually due to High Voltage                       | 20-01-2016 06:32          | 6:57:00  | 0  |                          |
| 257    | 765kV Durg-Wardha-I          | Line                | WR              | MO         | 26-01-2016 17:47       | Opened manually due to High Voltage                       | 27-01-2016 08:45          | 14:58:00 | 0  |                          |
| 258    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                       | 01-01-2016 06:39          | 6:39:00  | 0  |                          |
| 259    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 01-01-2016 23:27       | Opened manually due to High Voltage                       | 02-01-2016 06:36          | 7:09:00  | 0  |                          |
| 260    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 02-01-2016 21:56       | Opened manually due to High Voltage                       | 03-01-2016 05:28          | 7:32:00  | 0  |                          |
| 261    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 02-01-2016 21:55       | Opened manually due to High Voltage                       | 03-01-2016 05:48          | 7:53:00  | 0  |                          |
| 262    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 04-01-2016 21:18       | Opened manually due to High Voltage                       | 05-01-2016 07:32          | 10:14:00 | 0  |                          |
| 263    | 765kV Dhule-Vadodara         | Line                | WR              | SE         | 05-01-2016 12:10       | Testing by Manufacturer                                   | 05-01-2016 21:00          | 8:50:00  | 0  | No record in WRLDC site  |
| 264    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 05-01-2016 21:00       | Opened manually due to High Voltage                       | 06-01-2016 06:20          | 9:20:00  | 0  | Kept open on OV after SD |
| 265    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 09-01-2016 20:40       | Opened manually due to High Voltage                       | 10-01-2016 06:36          | 9:56:00  | 0  |                          |
| 266    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 10-01-2016 20:40       | Opened manually due to High Voltage                       | 11-01-2016 06:01          | 9:21:00  | 0  |                          |
| 267    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 11-01-2016 21:10       | Opened manually due to High Voltage                       | 12-01-2016 06:01          | 8:51:00  | 0  |                          |
| 268    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 13-01-2016 21:53       | Opened manually due to High Voltage                       | 14-01-2016 06:52          | 8:59:00  | 0  |                          |
| 269    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 14-01-2016 20:59       | Opened manually due to High Voltage                       | 15-01-2016 06:59          | 10:00:00 | 0  |                          |
| 270    | 765kV Dhule-Vadodara         | Line                | WR              | MO         | 16-01-2016 00:17       | Opened manually due to High Voltage                       | 16-01-2016 06:58          | 6:41:00  | 0  |                          |



| S. No. | Name of Transmission Element        | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication   | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks            |
|--------|-------------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|-----------|--|-------------------------|
| 271    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 16-01-2016 23:31       | Opened manually due to High Voltage   | 17-01-2016 07:45          | 8:14:00   | 0  |                         |
| 272    | 765kV Dhule-Vadodara                | Line                | WR              | SO         | 17-01-2016 07:43       | Restoration of spare Reactor  | 23-01-2016 21:21          | 157:38:00 | 0  |                         |
| 273    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 23-01-2016 21:57       | Opened manually due to High Voltage   | 24-01-2016 07:19          | 9:22:00   | 0  |                         |
| 274    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 24-01-2016 20:14       | Opened manually due to High Voltage   | 25-01-2016 06:24          | 10:10:00  | 0  |                         |
| 275    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 25-01-2016 19:59       | Opened manually due to High Voltage   | 26-01-2016 06:49          | 10:50:00  | 0  |                         |
| 276    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 26-01-2016 17:23       | Opened manually due to High Voltage   | 27-01-2016 06:35          | 13:12:00  | 0  |                         |
| 277    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 27-01-2016 21:04       | Opened manually due to High Voltage   | 28-01-2016 06:12          | 9:08:00   | 0  |                         |
| 278    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 28-01-2016 21:42       | Opened manually due to High Voltage   | 29-01-2016 06:42          | 9:00:00   | 0  |                         |
| 279    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 29-01-2016 21:39       | Opened manually due to High Voltage   | 30-01-2016 06:49          | 9:10:00   | 0  |                         |
| 280    | 765kV Dhule-Vadodara                | Line                | WR              | MO         | 31-01-2016 22:07       | Opened manually due to High Voltage   | 01-02-2016 00:00          | 1:53:00   | 0  |                         |
| 281    | 765kV Dharamjaigarh-Raipur-PS(DURG) | Line                | WR              | SO         | 29-01-2016 09:28       | AMP works   | 29-01-2016 20:28          | 11:00:00  | 0  |                         |
| 282    | 765kV Dharamjaigarh-Raipur-PS(DURG) | Line                | WR              | SO         | 30-01-2016 09:03       | AMP works   | 30-01-2016 18:53          | 9:50:00   | 0  |                         |
| 283    | 765kV Bina-Jabalpur-III             | Line                | WR              | SO         | 11-01-2016 09:40       | AMP works   | 11-01-2016 19:34          | 9:54:00   | 0  |                         |
| 284    | 765kV Bina-Jabalpur-III             | Line                | WR              | SE         | 15-01-2016 12:10       | Leakage in Reactor at Bina  | 15-01-2016 18:21          | 6:11:00   | 0  | No record in WRLDC site |
| 285    | 765kV Bina-Jabalpur-I               | Line                | WR              | SO         | 16-01-2016 13:29       | To attend L/R problem at Bina   | 16-01-2016 14:06          | 0:37:00   | 0  | No record in WRLDC site |
| 286    | 765kV Bina-Jabalpur-I               | Line                | WR              | SO         | 16-01-2016 17:51       | TO RESTORE L/R AT BINA  | 16-01-2016 18:01          | 0:10:00   | 0  |                         |
| 287    | 765kV Bina-Jabalpur-I               | Line                | WR              | MO         | 18-01-2016 22:03       | Opened manually due to High Voltage   | 23-01-2016 10:18          | 108:15:00 | 0  |                         |
| 288    | 765kV Bina-Indore                   | Line                | WR              | TL         | 20-01-2016 03:53       | Distance Protection operated  | 20-01-2016 13:01          | 9:08:00   | 1  |                         |
| 289    | 765kV Bina-Gwalior-III              | Line                | WR              | SO         | 07-01-2016 09:56       | For attending / fixing of theft tower members (AWL) at various theft prone locations of line. | 07-01-2016 20:19          | 10:23:00  | 0  |                         |
| 290    | 765kV Bina-Gwalior-III              | Line                | WR              | SO         | 08-01-2016 12:14       | AMP works   | 08-01-2016 19:18          | 7:04:00   | 0  |                         |
| 291    | 765kV Bina-Gwalior-I                | Line                | WR              | TV         | 07-01-2016 05:03       | Tripped on Over Voltage   | 07-01-2016 06:03          | 1:00:00   | 1  |                         |
| 292    | 765kV Aurangabad-Sholapur-I         | Line                | WR              | TV         | 02-01-2016 19:56       | Tripped on Over Voltage   | 03-01-2016 07:11          | 11:15:00  | 1  |                         |
| 293    | 765kV Aurangabad-Sholapur-I         | Line                | WR              | TV         | 26-01-2016 18:00       | Tripped on Over Voltage   | 26-01-2016 18:45          | 0:45:00   | 2  |                         |
| 294    | 765kV Aurangabad-Dhule(BDTCL)       | Line                | WR              | MO         | 02-01-2016 20:38       | Opened manually due to High Voltage   | 02-01-2016 21:35          | 0:57:00   | 0  |                         |
| 295    | 765kV Akola-Koradi-II               | Line                | WR              | SO         | 21-01-2016 19:31       | to facilitate outage of tie bay of akola-tiroda-2   | 21-01-2016 20:48          | 1:17:00   | 0  |                         |

| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication       | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|-------------------------------------|---------------------------|-----------|--|--------------|
| 296    | 765kV Akola-Koradi-I         | Line                | WR              | SC         | 08-01-2016 11:31       | Tripped during OPGW works           | 09-01-2016 00:27          | 12:56:00  | 0  |              |
| 297    | 765 kV Kotra-Champa-I        | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage | 09-01-2016 17:11          | 209:11:00 | 0  |              |
| 298    | 765 kV Durg-Champa-I         | Line                | WR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage | 09-01-2016 17:09          | 209:09:00 | 0  |              |
| 299    | 765 kV Durg-Champa-I         | Line                | WR              | MO         | 16-01-2016 23:27       | Opened manually due to High Voltage | 22-01-2016 09:17          | 129:50:00 | 0  |              |
| 300    | 765 kV Durg-Champa-I         | Line                | WR              | TP         | 30-01-2016 11:19       | PLCC maloperation                   | 30-01-2016 13:18          | 1:59:00   | 1  |              |
| 301    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage | 01-01-2016 06:57          | 6:57:00   | 0  |              |
| 302    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 01-01-2016 22:17       | Opened manually due to High Voltage | 02-01-2016 08:33          | 10:16:00  | 0  |              |
| 303    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 03-01-2016 18:13       | Opened manually due to High Voltage | 08-01-2016 19:14          | 121:01:00 | 0  |              |
| 304    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 08-01-2016 21:04       | Opened manually due to High Voltage | 09-01-2016 06:25          | 9:21:00   | 0  |              |
| 305    | 765kV Raichur-Kurnool-II     | Line                | SR              | TV         | 09-01-2016 18:00       | Tripped on Over Voltage             | 09-01-2016 18:45          | 0:45:00   | 1  |              |
| 306    | 765kV Raichur-Kurnool-II     | Line                | SR              | TV         | 10-01-2016 03:01       | Tripped on Over Voltage             | 10-01-2016 08:07          | 5:06:00   | 2  |              |
| 307    | 765kV Raichur-Kurnool-II     | Line                | SR              | TV         | 10-01-2016 20:02       | Tripped on Over Voltage             | 11-01-2016 08:59          | 12:57:00  | 3  |              |
| 308    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 15-01-2016 23:01       | Opened manually due to High Voltage | 16-01-2016 07:19          | 8:18:00   | 3  |              |
| 309    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 16-01-2016 23:35       | Opened manually due to High Voltage | 17-01-2016 06:54          | 7:19:00   | 3  |              |
| 310    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 17-01-2016 23:53       | Opened manually due to High Voltage | 18-01-2016 06:48          | 6:55:00   | 3  |              |
| 311    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 18-01-2016 23:09       | Opened manually due to High Voltage | 19-01-2016 07:58          | 8:49:00   | 3  |              |
| 312    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 26-01-2016 18:13       | Opened manually due to High Voltage | 27-01-2016 09:19          | 15:06:00  | 3  |              |
| 313    | 765kV Raichur-Kurnool-II     | Line                | SR              | MO         | 28-01-2016 00:38       | Opened manually due to High Voltage | 28-01-2016 07:35          | 6:57:00   | 3  |              |
| 314    | 765kV Raichur-Kurnool-II     | Line                | SR              | TV         | 28-01-2016 18:03       | Tripped on Over Voltage             | 28-01-2016 18:40          | 0:37:00   | 4  |              |
| 315    | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 08-01-2016 18:00       | Tripped on Over Voltage             | 09-01-2016 18:31          | 24:31:00  | 1  |              |
| 316    | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 10-01-2016 03:01       | Tripped on Over Voltage             | 10-01-2016 04:31          | 1:30:00   | 2  |              |
| 317    | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 10-01-2016 05:00       | Tripped on Over Voltage             | 10-01-2016 05:38          | 0:38:00   | 3  |              |
| 318    | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 10-01-2016 06:04       | Tripped on Over Voltage             | 10-01-2016 06:33          | 0:29:00   | 4  |              |
| 319    | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 10-01-2016 20:02       | Tripped on Over Voltage             | 10-01-2016 20:53          | 0:51:00   | 5  |              |
| 320    | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 11-01-2016 03:00       | Tripped on Over Voltage             | 11-01-2016 05:12          | 2:12:00   | 6  |              |

| S. No.                            | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication   | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks                    |
|-----------------------------------|------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|-----------|--|---------------------------------|
| 321                               | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 11-01-2016 05:27       | Tripped on Over Voltage   | 11-01-2016 06:48          | 1:21:00   | 7  |                                 |
| 322                               | 765kV Raichur-Kurnool-I      | Line                | SR              | TV         | 28-01-2016 18:03       | Tripped on Over Voltage   | 28-01-2016 18:23          | 0:20:00   | 8  |                                 |
| 323                               | 765kV Raichur-Kurnool-I      | Line                | SR              | SO         | 31-01-2016 06:07       | INSULATOR & JUMPER WORK   | 01-02-2016 00:00          | 17:53:00  | 8  |                                 |
| 324                               | 765kV Kurnool-Thiruvalem-II  | Line                | SR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                                     | 09-01-2016 07:29          | 199:29:00 | 0  |                                 |
| 325                               | 765kV Kurnool-Thiruvalem-II  | Line                | SR              | TV         | 09-01-2016 18:00       | Tripped on Over Voltage   | 18-01-2016 11:20          | 209:20:00 | 1  |                                 |
| 326                               | 765kV Kurnool-Thiruvalem-II  | Line                | SR              | MO         | 18-01-2016 20:41       | Opened manually due to High Voltage                                     | 19-01-2016 09:47          | 13:06:00  | 1  |                                 |
| 327                               | 765kV Kurnool-Thiruvalem-II  | Line                | SR              | MO         | 25-01-2016 22:02       | Opened manually due to High Voltage                                     | 01-02-2016 00:00          | 145:58:00 | 1  |                                 |
| 328                               | 765kV Kurnool-Thiruvalem-I   | Line                | SR              | TV         | 10-01-2016 03:01       | Tripped on Over Voltage   | 10-01-2016 06:49          | 3:48:00   | 1  |                                 |
| 329                               | 765kV Kurnool-Thiruvalem-I   | Line                | SR              | TV         | 10-01-2016 20:02       | Tripped on Over Voltage   | 10-01-2016 21:12          | 1:10:00   | 2  |                                 |
| 330                               | 765kV Kurnool-Thiruvalem-I   | Line                | SR              | TV         | 11-01-2016 03:00       | Tripped on Over Voltage   | 11-01-2016 06:58          | 3:58:00   | 3  |                                 |
| 331                               | 765kV Kurnool-Thiruvalem-I   | Line                | SR              | MO         | 19-01-2016 17:49       | Opened manually due to High Voltage                                     | 25-01-2016 12:58          | 139:09:00 | 3  |                                 |
| 332                               | 765kV Kurnool-Nellore(PS)-II | Line                | SR              | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage                                     | 18-01-2016 09:43          | 417:43:00 | 0  | Converted to shutdown on 18 Jan |
| 333                               | 765kV Kurnool-Nellore(PS)-II | Line                | SR              | SC         | 18-01-2016 09:43       | Shutdown for construction work  | 18-01-2016 19:38          | 9:55:00   | 0  |                                 |
| 334                               | 765kV Kurnool-Nellore(PS)-II | Line                | SR              | SC         | 19-01-2016 07:22       | Shutdown for construction work  | 21-01-2016 11:04          | 51:42:00  | 0  |                                 |
| 335                               | 765kV Kurnool-Nellore(PS)-II | Line                | SR              | TV         | 28-01-2016 18:03       | Tripped on Over Voltage   | 01-02-2016 00:00          | 77:57:00  | 1  |                                 |
| 336                               | 765kV Kurnool-Nellore(PS)-II | Line                | SR              | MO         | 18-01-2016 19:38       | Opened manually due to High Voltage                                     | 19-01-2016 07:22          | 11:44:00  | 1  | Not charged after SD            |
| 337                               | 765kV Kurnool-Nellore(PS)-I  | Line                | SR              | SC         | 18-01-2016 09:43       | Shutdown for construction work  | 18-01-2016 19:38          | 9:55:00   | 0  |                                 |
| 338                               | 765kV Kurnool-Nellore(PS)-I  | Line                | SR              | SC         | 19-01-2016 07:22       | Shutdown for construction work  | 19-01-2016 19:46          | 12:24:00  | 0  |                                 |
| 339                               | 765kV Kurnool-Nellore(PS)-I  | Line                | SR              | SC         | 20-01-2016 08:15       | Shutdown for construction work  | 20-01-2016 19:46          | 11:31:00  | 0  |                                 |
| 340                               | 765kV Kurnool-Nellore(PS)-I  | Line                | SR              | MO         | 20-01-2016 19:46       | Opened manually due to High Voltage                                     | 01-02-2016 00:00          | 268:14:00 | 0  |                                 |
| <b>765 kV Reactors &amp; ICTs</b> |                              |                     |                 |            |                        |   |                           |           |  |                                 |
| 341                               | B/R-I at Vadodara            | Bus Reactor         | WR              | SO         | 01-01-2016 00:00       | To attend defect in support insulators of Auxiliary Bus of Bus Reactor. | 05-01-2016 20:31          | 116:31:00 | 0  |                                 |
| 342                               | B/R-I at Bina                | Bus Reactor         | WR              | SO         | 02-01-2016 09:40       | AMP works   | 02-01-2016 15:46          | 6:06:00   | 0  |                                 |
| 343                               | B/R-II at Bina               | Bus Reactor         | WR              | SO         | 02-01-2016 09:40       | AMP works   | 02-01-2016 17:06          | 7:26:00   | 0  |                                 |
| 344                               | B/R-I at Ranchi New          | Bus Reactor         | ER              | SO         | 13-01-2016 09:40       | CSD commissioning work  | 13-01-2016 20:23          | 10:43:00  | 0  |                                 |

| S. No. | Name of Transmission Element        | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication                                  | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks              |
|--------|-------------------------------------|---------------------|-----------------|------------|------------------------|--|---------------------------|----------|--|---------------------------|
| 345    | B/R-I at Phagi                      | Bus Reactor         | NR              | SO         | 13-01-2016 12:03       | For the tightening of clamps & connectors of CB& CTs           | 13-01-2016 18:40          | 6:37:00  | 0  |                           |
| 346    | B/R-I at Sasan                      | Bus Reactor         | WR              | SE         | 18-01-2016 11:25       | Oil leakage works  | 18-01-2016 18:10          | 6:45:00  | 0  |                           |
| 347    | B/R-I at Bhopal                     | Bus Reactor         | WR              | SE         | 21-01-2016 10:06       | Oil leakage works  | 21-01-2016 22:09          | 12:03:00 | 0  |                           |
| 348    | B/R-I at Vadodara                   | Bus Reactor         | WR              | SO         | 23-01-2016 09:18       | For checking of Gas Compartment Zone Trippings                 | 23-01-2016 17:57          | 8:39:00  | 0  |                           |
| 349    | B/R-I at Vindhyachal PS             | Bus Reactor         | WR              | SO         | 27-01-2016 09:43       | Fine tuning of CSD relay                                       | 27-01-2016 20:42          | 10:59:00 | 0  |                           |
| 350    | B/R-I at Phagi                      | Bus Reactor         | NR              | SO         | 27-01-2016 14:11       | AMP works  | 27-01-2016 16:44          | 2:33:00  | 0  |                           |
| 351    | B/R-I at Vindhyachal PS             | Bus Reactor         | WR              | SO         | 27-01-2016 09:42       | Fine tuning of CSD relay by M/s.Alstom                         | 27-01-2016 20:42          | 11:00:00 | 0  |                           |
| 352    | 765/400 kV ICT-II at Agra           | ICT                 | NR              | SO         | 05-01-2016 10:58       | To attend hotspot  | 05-01-2016 18:14          | 7:16:00  | 0  |                           |
| 353    | 765/400 kV ICT-I at Aurangabad(PG)  | ICT                 | WR              | TP         | 05-01-2016 15:49       | REF mal-operation during dressing of wiring in ICT-1 CMB panel | 05-01-2016 16:56          | 1:07:00  | 1  |                           |
| 354    | 765/400 kV ICT-I at Agra            | ICT                 | NR              | SO         | 06-01-2016 12:13       | To attend hotspot  | 06-01-2016 18:21          | 6:08:00  | 0  | Missing in NRLDC records. |
| 355    | 765/400 kV ICT-I at Vindhyachal PS  | ICT                 | WR              | SO         | 06-01-2016 12:03       | TO TAKE OUT SPARE ICT FROM ICT 1                               | 06-01-2016 19:25          | 7:22:00  | 0  |                           |
| 356    | 765/400 kV ICT-II at Vindhyachal PS | ICT                 | WR              | SO         | 07-01-2016 13:44       | CSD Commissioning  | 08-01-2016 18:43          | 28:59:00 | 0  |                           |
| 357    | 765/400 kV ICT-I at Jhatikara       | ICT                 | NR              | ME         | 08-01-2016 03:47       | Loss of incoming power   | 08-01-2016 10:44          | 6:57:00  | 0  |                           |
| 358    | 765/400 kV ICT-IV at Jhatikara      | ICT                 | NR              | ME         | 08-01-2016 03:47       | Loss of incoming power   | 08-01-2016 10:53          | 7:06:00  | 0  |                           |
| 359    | 765/400 kV ICT-II at Jhatikara      | ICT                 | NR              | ME         | 08-01-2016 03:47       | Loss of incoming power   | 08-01-2016 13:56          | 10:09:00 | 0  |                           |
| 360    | 765/400 kV ICT-III at Jhatikara     | ICT                 | NR              | ME         | 08-01-2016 03:47       | Loss of incoming power   | 08-01-2016 14:06          | 10:19:00 | 0  |                           |
| 361    | 765/400 kV ICT-III at Bilaspur      | ICT                 | WR              | SO         | 09-01-2016 14:50       | For taking spare unit  | 09-01-2016 19:35          | 4:45:00  | 0  | No record in WRLDC site   |
| 362    | 765/400 kV ICT-II at Bilaspur       | ICT                 | WR              | SO         | 11-01-2016 09:21       | DGA violation in bushing oil of 765kV ICT-2 R phase.           | 11-01-2016 17:58          | 8:37:00  | 0  |                           |
| 363    | 765/400 kV ICT-I at Ranchi New      | ICT                 | ER              | SO         | 12-01-2016 09:55       | CSD commissioning work   | 12-01-2016 14:00          | 4:05:00  | 0  |                           |
| 364    | 765/400 kV ICT-IV at Jhatikara      | ICT                 | NR              | ME         | 15-01-2016 03:46       | Loss of incoming power   | 15-01-2016 09:45          | 5:59:00  | 0  |                           |
| 365    | 765/400 kV ICT-I at Jhatikara       | ICT                 | NR              | ME         | 15-01-2016 03:33       | Loss of incoming power   | 15-01-2016 14:14          | 10:41:00 | 0  |                           |
| 366    | 765/400 kV ICT-II at Jhatikara      | ICT                 | NR              | ME         | 15-01-2016 03:38       | Loss of incoming power   | 15-01-2016 09:45          | 6:07:00  | 0  |                           |
| 367    | 765/400 kV ICT-III at Jhatikara     | ICT                 | NR              | ME         | 15-01-2016 05:40       | Loss of incoming power   | 15-01-2016 10:01          | 4:21:00  | 0  |                           |
| 368    | 765/400 kV ICT-II at Bhiwani        | ICT                 | NR              | TP         | 17-01-2016 04:25       | Maloperation of Overfluxing                                    | 17-01-2016 15:54          | 11:29:00 | 1  |                           |
| 369    | 765/400 kV ICT-II at Moga           | ICT                 | NR              | TS         | 18-01-2016 06:07       | Bus bar protection operated                                    | 18-01-2016 08:13          | 2:06:00  | 1  |                           |

| S. No.            | Name of Transmission Element        | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication   | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks                |
|-------------------|-------------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|-----------|--|-----------------------------|
| 370               | 765/400 kV ICT-II at Jabalpur-PS    | ICT                 | WR              | SO         | 18-01-2016 11:56       | ICT Spare Phase Commissioning with ICT # 2 for Swapping with ICT # 2 Y Phase. | 18-01-2016 23:39          | 11:43:00  | 0  |                             |
| 371               | 765/400 kV ICT-II at Raichur        | ICT                 | SR              | SO         | 21-01-2016 12:19       | CSD Commissioning   | 21-01-2016 21:56          | 9:37:00   | 0  |                             |
| 372               | 765/400 kV ICT-I at Raichur         | ICT                 | SR              | SO         | 22-01-2016 09:43       | CSD Commissioning   | 22-01-2016 23:08          | 13:25:00  | 0  |                             |
| 373               | 765/400 kV ICT-II at Aurangabad(PG) | ICT                 | WR              | SO         | 22-01-2016 14:17       | Commissioning of CSD and Stability test along with Spare Trfr unit            | 22-01-2016 21:03          | 6:46:00   | 0  |                             |
| 374               | 765/400 kV ICT-I at Vindhyachal PS  | ICT                 | WR              | SO         | 23-01-2016 10:41       | Fine tuning of CSD relay  | 23-01-2016 20:37          | 9:56:00   | 0  |                             |
| 375               | 765/400 kV ICT-I at Vadodara        | ICT                 | WR              | SO         | 23-01-2016 12:29       | Calibration work  | 23-01-2016 18:06          | 5:37:00   | 0  |                             |
| 376               | 765/400 kV ICT-II at Vindhyachal PS | ICT                 | WR              | SO         | 25-01-2016 10:01       | Fine tuning of CSD relay  | 25-01-2016 18:51          | 8:50:00   | 0  |                             |
| 377               | 765/400 kV ICT-I at Vadodara        | ICT                 | WR              | SO         | 27-01-2016 11:51       | For checking of Gas Compartment Zone Trippings                                | 27-01-2016 19:23          | 7:32:00   | 0  |                             |
| 378               | 765/400 kV ICT-II at Vadodara       | ICT                 | WR              | SO         | 27-01-2016 11:54       | For checking of Gas Compartment Zone Trippings                                | 27-01-2016 19:35          | 7:41:00   | 0  |                             |
| 379               | 765/400 kV ICT-I at Tamnar-PS       | ICT                 | WR              | SO         | 27-01-2016 09:45       | AMP works   | 27-01-2016 18:51          | 9:06:00   | 0  |                             |
| 380               | 765/400 kV ICT-II at Bilaspur       | ICT                 | WR              | SO         | 28-01-2016 08:00       | BUSHING REPLACEMENT   | 28-01-2016 22:10          | 14:10:00  | 0  |                             |
| 381               | 765/400 kV ICT-II at Gwalior        | ICT                 | WR              | SE         | 28-01-2016 13:20       | To attend welding joint oil leakage at R-Phase                                | 28-01-2016 18:05          | 4:45:00   | 0  | No record in WRLDC site     |
| 382               | 765/400 kV ICT-I at Pune            | ICT                 | WR              | SO         | 29-01-2016 09:18       | AMP works   | 29-01-2016 19:38          | 10:20:00  | 0  |                             |
| 383               | 765/400 kV ICT-II at Gwalior        | ICT                 | WR              | SE         | 29-01-2016 11:18       | Oil leakage from welding joint  | 29-01-2016 18:19          | 7:01:00   | 0  | No record in WRLDC site     |
| 384               | 765/400 kV ICT-I at Gwalior         | ICT                 | WR              | SE         | 30-01-2016 13:03       | Oil leakage in tertiary bushing   | 30-01-2016 18:46          | 5:43:00   | 0  | No record in WRLDC site     |
| <b>400kV - IR</b> |                                     |                     |                 |            |                        |   |                           |           |  |                             |
| 385               | 400 kV Zerda-Kankaroli              | Line                | WR/NR           | SO         | 29-01-2016 10:40       | For rectification of some abnormal sound coming from CVT at Kankroli end      | 29-01-2016 17:26          | 6:46:00   | 0  |                             |
| 386               | 400 kV Tala - Binaguri - IV         | Line                | Bhutan          | SO         | 01-01-2016 00:00       | AMP works   | 08-01-2016 18:00          | 186:00:00 | 0  |                             |
| 387               | 400 kV Tala - Binaguri - IV         | Line                | Bhutan          | MO         | 08-01-2016 18:00       | Opened manually due to High Voltage   | 01-02-2016 00:00          | 558:00:00 | 0  |                             |
| 388               | 400 kV Tala - Binaguri - I          | Line                | Bhutan          | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage   | 08-01-2016 09:30          | 177:30:00 | 0  |                             |
| 389               | 400 kV Tala - Binaguri - I          | Line                | Bhutan          | MO         | 08-01-2016 13:06       | Opened manually due to High Voltage   | 11-01-2016 02:32          | 61:26:00  | 0  |                             |
| 390               | 400 kV Tala - Binaguri - I          | Line                | Bhutan          | SO         | 11-01-2016 02:32       | AMP works   | 01-02-2016 00:00          | 501:28:00 | 0  |                             |
| 391               | 400 kV Siliguri-Bongaigaon-IV       | Line                | ER/NER          | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage   | 04-01-2016 09:40          | 81:40:00  | 0  |                             |
| 392               | 400 kV Siliguri-Bongaigaon-IV       | Line                | ER/NER          | MO         | 07-01-2016 23:23       | Opened manually due to High Voltage   | 08-01-2016 09:18          | 9:55:00   | 0  |                             |
| 393               | 400 kV Siliguri-Bongaigaon-IV       | Line                | ER/NER          | SO         | 08-01-2016 09:18       | Jumper tightening   | 08-01-2016 17:51          | 8:33:00   | 0  | Line open on OV taken in SD |

| S. No. | Name of Transmission Element   | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication                  | Restoration Date and Time | Duration  | Number of Cumulative tripping in the month | NLDC Remarks                |
|--------|--------------------------------|---------------------|-----------------|------------|------------------------|--|---------------------------|-----------|--|-----------------------------|
| 394    | 400 kV Siliguri-Bongaigaon-IV  | Line                | ER/NER          | MO         | 11-01-2016 03:52       | Opened manually due to High Voltage            | 11-01-2016 07:43          | 3:51:00   | 0  |                             |
| 395    | 400 kV Siliguri-Bongaigaon-IV  | Line                | ER/NER          | MO         | 13-01-2016 13:18       | Opened manually due to High Voltage            | 14-01-2016 08:50          | 19:32:00  | 0  |                             |
| 396    | 400 kV Siliguri-Bongaigaon-IV  | Line                | ER/NER          | TL         | 17-01-2016 23:10       | Distance Protection operated                   | 18-01-2016 16:10          | 17:00:00  | 1  |                             |
| 397    | 400 kV Siliguri-Bongaigaon-IV  | Line                | ER/NER          | MO         | 29-01-2016 23:10       | Opened manually due to High Voltage            | 30-01-2016 13:52          | 14:42:00  | 1  |                             |
| 398    | 400 kV Siliguri-Bongaigaon-IV  | Line                | ER/NER          | MO         | 30-01-2016 21:30       | Opened manually due to High Voltage            | 01-02-2016 00:00          | 26:30:00  | 1  |                             |
| 399    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 04-01-2016 12:27       | Opened manually due to High Voltage            | 05-01-2016 17:56          | 29:29:00  | 0  |                             |
| 400    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 05-01-2016 23:16       | Opened manually due to High Voltage            | 06-01-2016 10:32          | 11:16:00  | 0  |                             |
| 401    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 06-01-2016 23:32       | Opened manually due to High Voltage            | 07-01-2016 09:28          | 9:56:00   | 0  |                             |
| 402    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | SO         | 07-01-2016 09:28       | Jumper tightening                              | 07-01-2016 20:51          | 11:23:00  | 0  | Line open on OV taken in SD |
| 403    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 08-01-2016 21:59       | Opened manually due to High Voltage            | 10-01-2016 17:54          | 43:55:00  | 0  |                             |
| 404    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 12-01-2016 20:50       | Opened manually due to High Voltage            | 13-01-2016 07:41          | 10:51:00  | 0  |                             |
| 405    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 18-01-2016 21:59       | Opened manually due to High Voltage            | 19-01-2016 17:09          | 19:10:00  | 0  |                             |
| 406    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 21-01-2016 20:35       | To facilitate reversal of flow in BNC-Agra     | 22-01-2016 11:34          | 14:59:00  | 0  |                             |
| 407    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 23-01-2016 23:38       | Opened manually due to High Voltage            | 24-01-2016 17:52          | 18:14:00  | 0  |                             |
| 408    | 400 kV Siliguri-Bongaigaon-III | Line                | ER/NER          | MO         | 24-01-2016 21:48       | Opened manually due to High Voltage            | 01-02-2016 00:00          | 170:12:00 | 0  |                             |
| 409    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | MO         | 01-01-2016 00:00       | Opened manually due to High Voltage            | 02-01-2016 16:02          | 40:02:00  | 0  |                             |
| 410    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | MO         | 03-01-2016 23:40       | Opened manually due to High Voltage            | 04-01-2016 17:20          | 17:40:00  | 0  |                             |
| 411    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | SE         | 13-01-2016 08:21       | Heavy leakage in reactor bushing at Bongaigaon | 16-01-2016 18:24          | 82:03:00  | 0  |                             |
| 412    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | MO         | 16-01-2016 23:25       | Opened manually due to High Voltage            | 17-01-2016 17:11          | 17:46:00  | 0  |                             |
| 413    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | TV         | 17-01-2016 23:10       | Tripped on Over Voltage                        | 18-01-2016 00:44          | 1:34:00   | 1  |                             |
| 414    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | MO         | 19-01-2016 22:06       | Opened manually due to High Voltage            | 21-01-2016 18:00          | 43:54:00  | 1  |                             |
| 415    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | MO         | 21-01-2016 23:02       | Opened manually due to High Voltage            | 23-01-2016 11:49          | 36:47:00  | 1  |                             |
| 416    | 400 kV Siliguri-Bongaigaon-II  | Line                | ER/NER          | MO         | 26-01-2016 00:25       | Opened manually due to High Voltage            | 26-01-2016 17:34          | 17:09:00  | 1  |                             |
| 417    | 400 kV Siliguri-Bongaigaon-I   | Line                | ER/NER          | SE         | 02-01-2016 16:13       | L/R problem at Bongaigaon                      | 02-01-2016 19:42          | 3:29:00   | 0  |                             |
| 418    | 400 kV Siliguri-Bongaigaon-I   | Line                | ER/NER          | MO         | 03-01-2016 01:33       | Opened manually due to High Voltage            | 03-01-2016 17:15          | 15:42:00  | 0  |                             |

| S. No.             | Name of Transmission Element         | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication   | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks |
|--------------------|--------------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|----------|--|--------------|
| 419                | 400 kV Siliguri-Bongaigaon-I         | Line                | ER/NER          | MO         | 09-01-2016 04:04       | Opened manually due to High Voltage   | 09-01-2016 06:55          | 2:51:00  | 0  |              |
| 420                | 400 kV Rourkela-Raigarh              | Line                | ER/WR           | SO         | 28-01-2016 08:21       | Stringing work of Lara STPS-Raigarh   | 28-01-2016 20:12          | 11:51:00 | 0  |              |
| 421                | 400 kV Patna-Balia-IV                | Line                | ER/NR           | TL         | 03-01-2016 06:58       | Distance Protection operated  | 03-01-2016 19:55          | 12:57:00 | 1  |              |
| 422                | 400 kV Patna-Balia-IV                | Line                | ER/NR           | SC         | 29-01-2016 10:04       | To carry out diamond formation work of earth wire                                     | 29-01-2016 19:25          | 9:21:00  | 1  |              |
| 423                | 400 kV Patna-Balia-IV                | Line                | ER/NR           | SC         | 30-01-2016 09:00       | To carry out diamond formation work of earth wire                                     | 30-01-2016 18:06          | 9:06:00  | 1  |              |
| 424                | 400 kV Patna-Balia-IV                | Line                | ER/NR           | SC         | 31-01-2016 12:01       | To carry out diamond formation work of earth wire                                     | 31-01-2016 20:11          | 8:10:00  | 1  |              |
| 425                | 400 kV Patna-Balia-III               | Line                | ER/NR           | SC         | 29-01-2016 10:34       | To carry out diamond formation work of earth wire                                     | 29-01-2016 19:23          | 8:49:00  | 0  |              |
| 426                | 400 kV Patna-Balia-III               | Line                | ER/NR           | SC         | 30-01-2016 09:04       | To carry out diamond formation work of earth wire                                     | 30-01-2016 17:59          | 8:55:00  | 0  |              |
| 427                | 400 kV Patna-Balia-III               | Line                | ER/NR           | SC         | 31-01-2016 12:00       | To carry out diamond formation work of earth wire                                     | 31-01-2016 20:15          | 8:15:00  | 0  |              |
| 428                | 400 kV Patna-Balia-II                | Line                | ER/NR           | SC         | 31-01-2016 09:06       | To carry out diamond formation work of earth wire                                     | 31-01-2016 21:46          | 12:40:00 | 0  |              |
| 429                | 400 kV Patna-Balia-II                | Line                | ER/NR           | SE         | 31-01-2016 22:51       | Hand tripped due to heavy sparking was observed in B-phase line isolator at Balia end | 01-02-2016 00:00          | 1:09:00  | 0  |              |
| 430                | 400 kV Patna-Balia-I                 | Line                | ER/NR           | SC         | 29-01-2016 10:23       | To carry out diamond formation work of earth wire                                     | 30-01-2016 19:09          | 32:46:00 | 0  |              |
| 431                | 400 kV Jeypore-Gazuwaka-II           | Line                | ER/SR           | TL         | 12-01-2016 21:28       | Distance Protection operated  | 12-01-2016 22:22          | 0:54:00  | 1  |              |
| 432                | 400 kV Jeypore-Gazuwaka-II           | Line                | ER/SR           | SO         | 21-01-2016 14:30       | Signature Analysis  | 21-01-2016 17:26          | 2:56:00  | 1  |              |
| 433                | 400 kV Jeypore-Gazuwaka-I            | Line                | ER/SR           | TV         | 06-01-2016 05:21       | Tripped on Over Voltage   | 06-01-2016 06:45          | 1:24:00  | 1  |              |
| 434                | 400 kV Jeypore-Gazuwaka-I            | Line                | ER/SR           | TL         | 12-01-2016 04:24       | Distance Protection operated  | 12-01-2016 09:03          | 4:39:00  | 2  |              |
| 435                | 400 kV Jeypore-Gazuwaka-I            | Line                | ER/SR           | SO         | 21-01-2016 09:22       | Signature Analysis  | 21-01-2016 13:07          | 3:45:00  | 2  |              |
| 436                | 400 kV Jeypore-Gazuwaka-I            | Line                | ER/SR           | TL         | 12-01-2016 03:10       | Distance Protection operated  | 12-01-2016 04:17          | 1:07:00  | 3  |              |
| 437                | 400 kV IBEUL-Raigarh-I               | Line                | ER/WR           | SO         | 28-01-2016 08:21       | Stringing work of Lara STPS-Raigarh   | 28-01-2016 19:30          | 11:09:00 | 0  |              |
| 438                | 400 kV Barh-Gorakhpur-I              | Line                | ER/NR           | TL         | 22-01-2016 15:21       | Distance Protection operated  | 22-01-2016 22:18          | 6:57:00  | 1  |              |
| 439                | 400 kV Barh-Gorakhpur-I              | Line                | ER/NR           | TL         | 22-01-2016 15:23       | Distance Protection operated  | 22-01-2016 22:18          | 6:55:00  | 2  |              |
| <b>220 kV - IR</b> |                                      |                     |                 |            |                        |   |                           |          |  |              |
| 440                | 220 kV Talangde-Chikkodi             | Line                | WR/SR           | SE         | 21-01-2016 09:14       | Emergency Shutdown  | 21-01-2016 19:13          | 9:59:00  | 0  |              |
| 441                | 220 kV Pusauli-Sahupuri              | Line                | ER/NR           | TL         | 22-01-2016 03:15       | Distance Protection operated  | 22-01-2016 17:48          | 14:33:00 | 1  |              |
| 442                | 220 kV Mudasangi (Kolhapur)-Chikkodi | Line                | WR/SR           | SE         | 21-01-2016 09:15       | Emergency Shutdown  | 21-01-2016 19:13          | 9:58:00  | 0  |              |

| S. No. | Name of Transmission Element | Type of the element | Region Involved | Fault Type | Tripping Date and Time | Brief Reason/Relay Indication             | Restoration Date and Time | Duration | Number of Cumulative tripping in the month | NLDC Remarks              |
|--------|------------------------------|---------------------|-----------------|------------|------------------------|---|---------------------------|----------|--|---------------------------|
| 443    | 220 kV Mehgaon-Auraiya       | Line                | WR/NR           | TL         | 15-01-2016 02:09       | Due to dense fog                          | 15-01-2016 15:28          | 13:19:00 | 1  | Missing in NRLDC records. |
| 444    | 220 kV Malbase - Birpara     | Line                | Bhutan          | SO         | 22-01-2016 08:59       | Broken insulators replacement work        | 22-01-2016 17:55          | 8:56:00  | 0  |                           |
| 445    | 220 kV Malbase - Birpara     | Line                | Bhutan          | SO         | 23-01-2016 09:54       | Broken insulators replacement work        | 23-01-2016 17:13          | 7:19:00  | 0  |                           |
| 446    | 220 kV Malbase - Birpara     | Line                | Bhutan          | SE         | 25-01-2016 11:38       | Emergency Shutdown                        | 25-01-2016 13:50          | 2:12:00  | 0  |                           |
| 447    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | SE         | 02-01-2016 11:42       | Isolator problem at Malanpur              | 02-01-2016 15:14          | 3:32:00  | 0  |                           |
| 448    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | TL         | 04-01-2016 22:07       | Distance Protection operated              | 04-01-2016 23:12          | 1:05:00  | 1  | Missing in NRLDC records. |
| 449    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | SO         | 07-01-2016 08:47       | AMP works                                 | 07-01-2016 17:45          | 8:58:00  | 1  | Missing in NRLDC records. |
| 450    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | SO         | 08-01-2016 10:11       | AMP works                                 | 08-01-2016 17:35          | 7:24:00  | 1  | Missing in NRLDC records. |
| 451    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | TL         | 15-01-2016 01:51       | Due to dense fog                          | 15-01-2016 11:53          | 10:02:00 | 2  | Missing in NRLDC records. |
| 452    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | TL         | 27-01-2016 01:13       | Distance Protection operated              | 27-01-2016 01:36          | 0:23:00  | 3  | Missing in NRLDC records. |
| 453    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | TS         | 31-01-2016 10:22       | R-phase C.T. burst at bus-2.              | 31-01-2016 13:12          | 2:50:00  | 4  |                           |
| 454    | 220 kV Malanpur-Auraiya      | Line                | WR/NR           | TL         | 26-01-2016 01:22       | Distance Protection operated              | 26-01-2016 01:59          | 0:37:00  | 5  |                           |
| 455    | 220 kV Budhipadar-Raigarh    | Line                | ER/WR           | SO         | 20-01-2016 13:39       | Repairing of damaged conductor in Raigarh | 20-01-2016 20:08          | 6:29:00  | 0  |                           |
| 456    | 220 kV Badod-Modak           | Line                | WR/NR           | TL         | 16-01-2016 15:20       | Distance Protection operated              | 16-01-2016 16:31          | 1:11:00  | 1  | Missing in NRLDC records. |
| 457    | 220 kV Badod-Kota            | Line                | WR/NR           | TL         | 20-01-2016 02:13       | Distance Protection operated              | 20-01-2016 17:58          | 15:45:00 | 1  | Missing in NRLDC records. |
| 458    | 220 kV Badod-Kota            | Line                | WR/NR           | TL         | 21-01-2016 07:37       | Distance Protection operated              | 21-01-2016 11:43          | 4:06:00  | 2  |                           |

TL TL= Tripping due to Line Fault

TS TS= Tripping due to S/S Fault

MO MO= Opened due to system constraints

TV TV= Tripped on Overvoltage

SC SC= Planned Shutdown for construction activities

SO SO= Planned Shutdown for O&M activities

SE SE= Emergency Shutdown

TP TP= Protection Maloperation

ME ME= Miscellaneous outage

**Total Number of 765 kV lines 89**

**Total Number of 400 kV lines 33**

**Total Number of 220 kV lines 15**

**Total Number of HVDC links 18**

**Total Number of 765 kV ICTs 108**

**Total Number of 765 kV B/R 57**

**Grand Total 320**





## **POWER SYSTEM OPERATION CORPORATION LIMITED**

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

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