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## Highlights of Eastern Regional Power System for April-2017

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Apr, 2017** was **19164 MW** which is 3.02% more than the **Apr, 2016** (18601 MW). Individual **Peak Demand (MW)** of majority constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Apr, 2017** was **401.99 MU** excluding export, which is 4.26% more than the corresponding period of last year (385.58 MU).
- **The Average regional PLF of thermal units is 62.70% during the month**, which is marginally less than the corresponding period of the last year (64.53%).
- **CESC (Budge Budge)** registered the highest **PLF** of 100.42%, followed by **TTPS (Gridco) 93.61%** & **Santalalih TPS of (WBPDC) 90.77%** during the month of **Apr' 2017**.
- **Total Net generation** of ER was **20047 MW** against total **Effective Capacity of 34094 MW** (including that of Bhutan), and import from CPPs was 1388 MW at the time of Regional peak (19164 MW on 01.04.17 at 20.00 hrs.)
- The **IEGC frequency** band has been revised w.e.f. 17.02.2014 and the system frequency in the new recommended band (49.9 Hz to 50.05 Hz) remained for 74.49% of time during the period. **Average frequency** for the month was **49.98 Hz**. The instantaneous maximum and the minimum frequency touched were 50.26 Hz and 49.66 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.17 Hz** and **49.77 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **436 KV** at Jeypore 400 **KV S/s** whereas the minimum voltage recorded 371 KV at Jeypore 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 4859 MW on 29<sup>th</sup> Apr'17 at 4.00 hrs.** Total net energy export during the month was **1202.03 MU** (including transmission loss), which corresponds to 9.59% of ex-bus total generation (11364.68 MU) of Eastern Region and 39.88 less than the corresponding period of previous year.
- **The import from CPPs/IPP**s was **1826.80 MU**, which is 38.89% more than corresponding period of last year (**1315.28 MU**).

- **The Total Energy Exchange between Nepal and Bihar (ER) was:**

| Export / Import by Bihar         | Apr, 2017(In MU) | Cum. (Apr'17- Apr'17) in MU |
|----------------------------------|------------------|-----------------------------|
| Export to NEPAL by Bihar (NBPDC) | 116.44           | 116.77                      |
| Export to NEPAL by NVVN          | 0                | 0                           |

- **The total energy exchange between India & Bangladesh was:**

| Export                              | During Apr, 2017(In MU) | Cum. (Apr'17- Apr'17) in MU |
|-------------------------------------|-------------------------|-----------------------------|
| Exchange between India & Bangladesh | 344.38                  | 344.38                      |

- **Export(+)/Import(-) Scenario:**

| Region     | Max. Export of Power ER (MW) | Max. Import of Power by ER (MW) | Net Export of Energy (MU) |
|------------|------------------------------|---------------------------------|---------------------------|
| <b>NR</b>  | 3673                         | 0                               | 1322.11                   |
| <b>WR</b>  | 504                          | 3137                            | -833.93                   |
| <b>SR</b>  | 1984                         | 0                               | 963.11                    |
| <b>NER</b> | 1195                         | 960                             | 2.97                      |

**SALIENT FEATURES**

( YEAR TO YEAR COMPARISON )

|     |   | Apr-17   | APR-2016 | CHANGE     | % CHANGE |
|-----|---|----------|----------|------------|----------|
| 1)  | Effective Capacity (end of the Month)   |          |          |            |          |
|     | THERMAL (MW)  | 27755    | 29155    | -1400      | -4.80    |
|     | HYDRO (MW)  | 4846     | 4686     | 160        | 3        |
|     | DIESEL (MW)   | 7        | 7        | 0          | 0        |
|     | SOLAR (MW)  | 10       | 10       | 0          | 0        |
|     | TOTAL (MW)  | 32618    | 33858    | -1240      | -3.66    |
| 2)  | Peak Demand ( MW )  | 19387    | 18861    | 526        | 2.79     |
| 3)  | Peak Demand Met ( MW )  | 19164    | 18601    | 563        | 3.02     |
| 4)  | Shortage ( MW )   | 224      | 254      | -30        | -11.89   |
| 5)  | % Shortage  | 1.15     | 1.35     | -0.20      | -14.49   |
| 6)  | Average Energy Requirement Per Day ( MU )                                     | 405.85   | 390.83   | 15.02      | 3.84     |
| 7)  | Average Energy Availability Per Day ( MU )                                    | 401.99   | 385.58   | 16.41      | 4.26     |
| 8)  | Average Shortage Per Day ( MU )   | 3.86     | 5.25     | -1.39      | -26.55   |
| 9)  | % Shortage  | 0.95     | 1.34     | -0.39      | -29.09   |
| 10) | Net Generation for the Month  |          |          |            |          |
|     | Thermal ( MU )  | 11364.68 | 12517.99 | -1153.31   | -9.21    |
|     | Hydro ( MU )  | 1174.41  | 926.09   | 248.32     | 26.81    |
|     | Diesel ( MU )   | 0.00     | 0.00     | 0.00       | -        |
|     | Total ( MU )  | 12539    | 13445.10 | -906.01    | -6.74    |
| 11) | Generation at the Time of Max. Regional Demand Met ( 01-04-17 at 20.00 Hrs. ) |          |          |            |          |
|     | Thermal ( MW )  | 16432    | 18180    | -1748      | -9.62    |
|     | Hydro ( MW )  | 3615     | 1945     | 1670       | 85.89    |
|     | Diesel ( MW )   | 0        | 0        | 0          | -        |
|     | Total ( MW )  | 20047    | 20125    | -78        | -0.39    |
| 12) | Inter-Regional Energy Transfer  |          |          |            |          |
|     | Export ( MU )   | 2380.34  | 1999.28  | 381.06     | 19.06    |
|     | Import ( MU )   | 1178.31  | 0.00     | 1178.31    | -        |
|     | Net Exp.(+)/Net Imp.(-) ( MU )  | 1202.03  | 1999.28  | -797.25    | -39.88   |
| 13) | Import From Captive(MU)   | 1826.80  | 1315.28  | 511.52     | 38.89    |
| 14) | Peak Inter Regional Power Transfer  |          |          |            |          |
|     | Max Export ( MW ) on 29-04-17 at 04.00Hrs                                     | 4859     | 4442     | 417        | 9.38     |
|     | Max Import ( MW ) on 06-04-17 at 05.00Hrs                                     | 3137     | 1486     | 1651       | 111.11   |
|     | Max Net Export(+)/Import (-) ( MW ) on 00-01-00 at 00.00Hrs                   | 4199     | 4442     | -243       | -5.47    |
| 15) | Maximum voltage recorded  | 436.2    | JEYPORE  | 400 kv s/s |          |
| 16) | Minimum voltage recorded  | 371      | JEYPORE  | 400 kv s/s |          |

\$ Excludes 1350 MW contribution from HEPs of Bhutan

\* Includes contribution from HEP of Bhutan ( Chukha, Kurichhu & Tala )

POWER SUPPLY POSITION FOR THE MONTH OF APR-2017

**A) Net Average Energy Per Day**

| System        | Demand Met<br>(MU/Day) | Requirement<br>(MU/Day) | Shortage<br>(MU/Day) | % Shortage  |
|---------------|------------------------|-------------------------|----------------------|-------------|
| BSEB          | 74.49                  | 77.07                   | 2.58                 | 3.35        |
| JSEB          | 25.77                  | 25.90                   | 0.13                 | 0.51        |
| DVC           | 57.75                  | 57.83                   | 0.08                 | 0.14        |
| ODISHA        | 85.33                  | 85.39                   | 0.06                 | 0.08        |
| WBSEDCL       | 120.15                 | 121.12                  | 0.97                 | 0.80        |
| CESC          | 33.66                  | 33.69                   | 0.03                 | 0.08        |
| DPL           | 3.44                   | 3.44                    | 0.00                 | 0.08        |
| SIKKIM        | 1.41                   | 1.41                    | 0.00                 | 0.08        |
| <b>REGION</b> | <b>401.99</b>          | <b>405.85</b>           | <b>3.86</b>          | <b>0.95</b> |

**B) Peak Demand in MW:**

| System        | Demand Met<br>(MW) | Requirement<br>(MW) | Shortage<br>(MW) | % Shortage |
|---------------|--------------------|---------------------|------------------|------------|
| BSEB          | 3923               | 3946                | 23               | 0.58       |
| JSEB          | 1177               | 1177                | 0                | 0.00       |
| DVC           | 2803               | 2803                | 0                | 0.00       |
| ODISHA        | 4262               | 4275                | 13               | 0.31       |
| WBSEDCL       | 6247               | 6285                | 38               | 0.61       |
| CESC          | 1980               | 1989                | 9                | 0.5        |
| DPL           | 276                | 276                 | 0                | 0.00       |
| SIKKIM        | 88                 | 88                  | 0                | 0.00       |
| <b>REGION</b> | <b>19164</b>       | <b>19387</b>        | <b>224</b>       | <b>1</b>   |

➤ **DIVERSITY FACTOR :** 1.08

➤ **Regional Peak Demand Met on 1-4-2017 at 20.00 hrs. at 50.01 Hz.**

POWER SUPPLY POSITION IN EASTERN REGION DURING THE YEAR AS COMPARED TO PREVIOUS YEAR

**A ) Net Average Energy**

| Month     | 2016-17    |             |          |          |            | 2017-18       |               |             |             |              |
|-----------|------------|-------------|----------|----------|------------|---------------|---------------|-------------|-------------|--------------|
|           | Demand Met | Requirement | Shortage | Shortage | Avg. Freq. | Demand Met    | Requirement   | Shortage    | Shortage    | Avg. Freq.   |
|           | (MU/Day)   | (MU/Day)    | (MU/Day) | (%)      | (HZ)       | (MU/Day)      | (MU/Day)      | (MU/Day)    | (%)         | (HZ)         |
| APRIL     | 385.58     | 390.83      | 5.25     | 1.34     | 49.97      | <b>401.99</b> | <b>405.85</b> | <b>3.86</b> | <b>0.95</b> | <b>49.98</b> |
| MAY       | 353.14     | 358.24      | 5.10     | 1.42     | 50.00      | -             | -             | -           | -           | -            |
| JUNE      | 377.01     | 380.64      | 3.63     | 0.95     | 49.99      | -             | -             | -           | -           | -            |
| JULY      | 370.16     | 371.83      | 1.67     | 0.45     | 50.00      | -             | -             | -           | -           | -            |
| AUGUST    | 370.20     | 372.52      | 2.31     | 0.62     | 49.99      | -             | -             | -           | -           | -            |
| SEPTEMBER | 364.20     | 367.43      | 3.23     | 0.88     | 49.99      | -             | -             | -           | -           | -            |
| OCTOBER   | 378.10     | 380.17      | 2.07     | 0.54     | 49.99      | -             | -             | -           | -           | -            |
| NOVEMBER  | 316.27     | 318.04      | 1.77     | 0.56     | 49.98      | -             | -             | -           | -           | -            |
| DECEMBER  | 0.00       | 0.00        | 0.00     | #DIV/0!  | 0.00       | -             | -             | -           | -           | -            |
| JANUARY   | 0.00       | 0.00        | 0.00     | #DIV/0!  | 0.00       | -             | -             | -           | -           | -            |
| FEBRUARY  | 0.00       | 0.00        | 0.00     | #DIV/0!  | 0.00       | -             | -             | -           | -           | -            |
| MARCH     | 0.00       | 0.00        | 0.00     | #DIV/0!  | 0.00       | -             | -             | -           | -           | -            |

**B) Peak in MW:**

| Month     | 2016-17    |             |          |          |            | 2017-18      |              |            |             |              |
|-----------|------------|-------------|----------|----------|------------|--------------|--------------|------------|-------------|--------------|
|           | Demand Met | Requirement | Shortage | Shortage | Avg. Freq. | Demand Met   | Requirement  | Shortage   | Shortage    | Avg. Freq.   |
|           | (MW)       | (MW)        | (MW)     | (%)      | (HZ)       | (MW)         | (MW)         | (MW)       | (%)         | (HZ)         |
| APRIL     | 18607      | 18861       | 254      | 1.35     | 49.97      | <b>19164</b> | <b>19387</b> | <b>224</b> | <b>1.15</b> | <b>49.98</b> |
| MAY       | 18427      | 18721       | 294      | 1.57     | 50.00      | -            | -            | -          | -           | -            |
| JUNE      | 18302      | 18816       | 514      | 2.73     | 49.99      | -            | -            | -          | -           | -            |
| JULY      | 18338      | 18553       | 215      | 1.16     | 50.00      | -            | -            | -          | -           | -            |
| AUGUST    | 18418      | 18749       | 330      | 1.76     | 49.99      | -            | -            | -          | -           | -            |
| SEPTEMBER | 18469      | 18638       | 169      | 0.91     | 49.99      | -            | -            | -          | -           | -            |
| OCTOBER   | 18930      | 19203       | 273      | 1.42     | 49.99      | -            | -            | -          | -           | -            |
| NOVEMBER  | 18239      | 18357       | 118      | 0.64     | 49.98      | -            | -            | -          | -           | -            |
| DECEMBER  | 0          | 0           | 0        | #DIV/0!  | 0.00       | -            | -            | -          | -           | -            |
| JANUARY   | 0          | 0           | 0        | #DIV/0!  | 0.00       | -            | -            | -          | -           | -            |
| FEBRUARY  | 0          | 0           | 0        | #DIV/0!  | 0.00       | -            | -            | -          | -           | -            |
| MARCH     | 0          | 0           | 0        | #DIV/0!  | 0.00       | -            | -            | -          | -           | -            |

ENTITLEMENT DRAWAL SCHEDULE (EX. BUS) AND ACTUAL DRAWAL FROM CENTRAL SECTOR GENERATION

|                        | FROM                | Cumulative from 1-Apr-17 to 30/Apr/17 |                          |   |                                  | During April-17         |                      |                          |   |                                  |                         |  |
|------------------------|---------------------|---------------------------------------|--------------------------|---|----------------------------------|-------------------------|----------------------|--------------------------|---|----------------------------------|-------------------------|--|
|                        |                     | ENTITLEMENT (EX-BUS)                  | DRAWAL SCHEDULE (EX-BUS) | BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS) | NET DRAWAL SCHEDULE (AFTER LOSS) | ACTUAL DRAWAL FROM GRID | ENTITLEMENT (EX-BUS) | DRAWAL SCHEDULE (EX-BUS) | BILATERAL [EXPORT(-) / IMPORT(+)] (EX-SELLER BUS) | NET DRAWAL SCHEDULE (AFTER LOSS) | ACTUAL DRAWAL FROM GRID |  |
| BSEB                   | FARAKKA STPS I      | 194.64                                | 177.10                   |   |                                  |                         | 194.64               | 177.10                   |   |                                  |                         |  |
|                        | FARAKKA STPS III    | 71.11                                 | 65.10                    |   |                                  |                         | 71.11                | 65.10                    |   |                                  |                         |  |
|                        | KAHALGAON STPS I    | 223.21                                | 219.99                   |   |                                  |                         | 223.21               | 219.99                   |   |                                  |                         |  |
|                        | KAHALGAON STPS II   | 48.70                                 | 51.43                    |   |                                  |                         | 48.70                | 51.43                    |   |                                  |                         |  |
|                        | TALCHER STPS I      | 235.01                                | 233.77                   |   |                                  |                         | 235.01               | 233.77                   |   |                                  |                         |  |
|                        | BARH STPS II        | 685.81                                | 643.24                   |   |                                  |                         | 685.81               | 643.24                   |   |                                  |                         |  |
|                        | RANGIT HEP          | 6.65                                  | 6.65                     |   |                                  |                         | 6.65                 | 6.65                     |   |                                  |                         |  |
|                        | CHUKHA HEP          | 8.30                                  | 39.49                    |   |                                  |                         | 8.30                 | 39.49                    |   |                                  |                         |  |
|                        | KIRUCHHU HEP        | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
|                        | TALA HPS            | 45.07                                 | 164.80                   |   |                                  |                         | 45.07                | 164.80                   |   |                                  |                         |  |
|                        | TEESTA HEP          | 47.35                                 | 47.35                    |   |                                  |                         | 47.35                | 47.35                    |   |                                  |                         |  |
|                        | TOTAL               | 1565.85                               | 1648.92                  | 490.21  | 1942.51                          | 1960.59                 | 1565.85              | 1648.92                  | 490.21  | 1942.51                          | 1960.59                 |  |
|                        | JSEB                | FARAKKA STPS I                        | 53.15                    | 55.44   |                                  |                         |                      | 53.15                    | 55.44   |                                  |                         |  |
| FARAKKA STPS III       |                     | 22.96                                 | 23.98                    |   |                                  |                         | 22.96                | 23.98                    |   |                                  |                         |  |
| KAHALGAON STPS I       |                     | 17.07                                 | 23.64                    |   |                                  |                         | 17.07                | 23.64                    |   |                                  |                         |  |
| KAHALGAON STPS II      |                     | 12.21                                 | 80.95                    |   |                                  |                         | 12.21                | 80.95                    |   |                                  |                         |  |
| TALCHER STPS I         |                     | 43.69                                 | 43.82                    |   |                                  |                         | 43.69                | 43.82                    |   |                                  |                         |  |
| BARH STPS II           |                     | 63.86                                 | 66.86                    |   |                                  |                         | 63.86                | 66.86                    |   |                                  |                         |  |
| RANGIT HEP             |                     | 2.53                                  | 2.53                     |   |                                  |                         | 2.53                 | 2.53                     |   |                                  |                         |  |
| CHUKHA HEP             |                     | 3.01                                  | 14.32                    |   |                                  |                         | 3.01                 | 14.32                    |   |                                  |                         |  |
| KIRUCHHU HEP           |                     | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
| TALA HPS               |                     | 20.26                                 | 7.41                     |   |                                  |                         | 20.26                | 7.41                     |   |                                  |                         |  |
| TEESTA HEP             |                     | 27.48                                 | 27.48                    |   |                                  |                         | 27.48                | 27.48                    |   |                                  |                         |  |
| TOTAL                  |                     | 266.22                                | 346.43                   | 153.17  | 526.44                           | 579.06                  | 266.22               | 346.43                   | 153.17  | 526.44                           | 579.06                  |  |
| DVC                    |                     | FARAKKA STPS I                        | 4.66                     | 3.34  |                                  |                         |                      | 4.66                     | 3.34  |                                  |                         |  |
|                        | FARAKKA STPS III    | 23.44                                 | 19.04                    |   |                                  |                         | 23.44                | 19.04                    |   |                                  |                         |  |
|                        | KAHALGAON STPS I    | 3.64                                  | 2.53                     |   |                                  |                         | 3.64                 | 2.53                     |   |                                  |                         |  |
|                        | KAHALGAON STPS II   | 7.46                                  | 5.33                     |   |                                  |                         | 7.46                 | 5.33                     |   |                                  |                         |  |
|                        | TALCHER STPS I      | 5.83                                  | 4.06                     |   |                                  |                         | 5.83                 | 4.06                     |   |                                  |                         |  |
|                        | RANGIT HEP          | 1.90                                  | 1.90                     |   |                                  |                         | 1.90                 | 1.90                     |   |                                  |                         |  |
|                        | CHUKHA HEP          | 2.91                                  | 13.82                    |   |                                  |                         | 2.91                 | 13.82                    |   |                                  |                         |  |
|                        | KIRUCHHU HEP        | 5.82                                  | 0.00                     |   |                                  |                         | 5.82                 | 0.00                     |   |                                  |                         |  |
|                        | TALA HPS            | 9.79                                  | 3.58                     |   |                                  |                         | 9.79                 | 3.58                     |   |                                  |                         |  |
|                        | TEESTA HEP          | 19.24                                 | 19.24                    |   |                                  |                         | 19.24                | 19.24                    |   |                                  |                         |  |
|                        | TOTAL               | 84.69                                 | 72.84                    | -1020.94  | -1095.60                         | -1120.22                | 84.69                | 72.84                    | -1020.94  | -1095.60                         | -1120.22                |  |
|                        | GRIDCO              | FARAKKA STPS I                        | 87.92                    | 79.90   |                                  |                         |                      | 87.92                    | 79.90   |                                  |                         |  |
|                        |                     | FARAKKA STPS III                      | 56.67                    | 46.41   |                                  |                         |                      | 56.67                    | 46.41   |                                  |                         |  |
| KAHALGAON STPS I       |                     | 84.12                                 | 81.69                    |   |                                  |                         | 84.12                | 81.69                    |   |                                  |                         |  |
| KAHALGAON STPS II      |                     | 25.63                                 | 24.86                    |   |                                  |                         | 25.63                | 24.86                    |   |                                  |                         |  |
| TALCHER STPS ( Stg-I)  |                     | 184.29                                | 184.29                   |   |                                  |                         | 184.29               | 184.29                   |   |                                  |                         |  |
| TALCHER STPS ( Stg-II) |                     | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
| BARH STPS II           |                     | 132.46                                | 78.23                    |   |                                  |                         | 132.46               | 78.23                    |   |                                  |                         |  |
| RANGIT HEP             |                     | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
| CHUKHA HEP             |                     | 4.26                                  | 20.25                    |   |                                  |                         | 4.26                 | 20.25                    |   |                                  |                         |  |
| KIRUCHHU HEP           |                     | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
| TALA HPS               |                     | 7.51                                  | 2.75                     |   |                                  |                         | 7.51                 | 2.75                     |   |                                  |                         |  |
| TEESTA HEP             |                     | 45.86                                 | 45.86                    |   |                                  |                         | 45.86                | 45.86                    |   |                                  |                         |  |
| TOTAL                  |                     | 628.72                                | 564.24                   | 147.96  | 681.78                           | 699.24                  | 628.72               | 564.24                   | 147.96  | 681.78                           | 699.24                  |  |
| WBSEDC                 | FARAKKA STPS I      | 195.01                                | 173.44                   |   |                                  |                         | 195.01               | 173.44                   |   |                                  |                         |  |
|                        | FARAKKA STPS III    | 106.40                                | 98.86                    |   |                                  |                         | 106.40               | 98.86                    |   |                                  |                         |  |
|                        | KAHALGAON STPS I    | 4.90                                  | 1.64                     |   |                                  |                         | 4.90                 | 1.64                     |   |                                  |                         |  |
|                        | KAHALGAON STPS II   | 8.99                                  | 3.86                     |   |                                  |                         | 8.99                 | 3.86                     |   |                                  |                         |  |
|                        | TALCHER STPS I      | 57.09                                 | 54.12                    |   |                                  |                         | 57.09                | 54.12                    |   |                                  |                         |  |
|                        | RANGIT HEP          | 5.38                                  | 5.38                     |   |                                  |                         | 5.38                 | 5.38                     |   |                                  |                         |  |
|                        | CHUKHA HEP          | 8.93                                  | 42.45                    |   |                                  |                         | 8.93                 | 42.45                    |   |                                  |                         |  |
|                        | KIRUCHHU HEP        | 5.82                                  | 0.00                     |   |                                  |                         | 5.82                 | 0.00                     |   |                                  |                         |  |
|                        | TALA HPS            | 67.61                                 | 24.72                    |   |                                  |                         | 67.61                | 24.72                    |   |                                  |                         |  |
|                        | TEESTA HEP          | 53.41                                 | 53.41                    |   |                                  |                         | 53.41                | 53.41                    |   |                                  |                         |  |
|                        | TOTAL               | 513.54                                | 457.88                   | 538.10  | 1387.83                          | 1430.00                 | 513.54               | 457.88                   | 538.10  | 1387.83                          | 1430.00                 |  |
|                        | SIKKIM              | FARAKKA STPS I                        | 10.10                    | 7.57  |                                  |                         |                      | 10.10                    | 7.57  |                                  |                         |  |
|                        |                     | FARAKKA STPS III                      | 0.00                     | 0.00  |                                  |                         |                      | 0.00                     | 0.00  |                                  |                         |  |
| KAHALGAON STPS I       |                     | 8.27                                  | 7.35                     |   |                                  |                         | 8.27                 | 7.35                     |   |                                  |                         |  |
| KAHALGAON STPS II      |                     | 3.23                                  | 2.88                     |   |                                  |                         | 3.23                 | 2.88                     |   |                                  |                         |  |
| TALCHER STPS I         |                     | 13.67                                 | 13.47                    |   |                                  |                         | 13.67                | 13.47                    |   |                                  |                         |  |
| BARH STPS II           |                     | 13.59                                 | 9.50                     |   |                                  |                         | 13.59                | 9.50                     |   |                                  |                         |  |
| RANGIT HEP             |                     | 2.53                                  | 2.53                     |   |                                  |                         | 2.53                 | 2.53                     |   |                                  |                         |  |
| CHUKHA HEP             |                     | 0.62                                  | 2.96                     |   |                                  |                         | 0.62                 | 2.96                     |   |                                  |                         |  |
| KIRUCHHU HEP           |                     | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
| TEESTA HEP             |                     | 29.38                                 | 29.38                    |   |                                  |                         | 29.38                | 29.38                    |   |                                  |                         |  |
| TOTAL                  |                     | 81.39                                 | 75.64                    | 24.90   | 38.56                            | 35.78                   | 81.39                | 75.64                    | 24.90   | 38.56                            | 35.78                   |  |
| WR                     |                     | FARAKKA STPS I                        | 0.00                     | 0.00  |                                  |                         |                      | 0.00                     | 0.00  |                                  |                         |  |
|                        |                     | KAHALGAON STPS I                      | 0.00                     | 0.00  |                                  |                         |                      | 0.00                     | 0.00  |                                  |                         |  |
|                        | KAHALGAON STPS II   | -259.46                               | -216.03                  |   |                                  |                         | -259.46              | -216.03                  |   |                                  |                         |  |
|                        | TALCHER STPS I      | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
|                        | BARH STPS II        | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
|                        | TOTAL               | -259.46                               | -216.03                  | 597.24  | 335.65                           | 833.93                  | -259.46              | -216.03                  | 597.24  | 335.65                           | 833.93                  |  |
| SR                     | FARAKKA STPS I      | -8.00                                 | -10.41                   |   |                                  |                         | -8.00                | -10.41                   |   |                                  |                         |  |
|                        | KAHALGAON STPS I    | -3.72                                 | -5.52                    |   |                                  |                         | -3.72                | -5.52                    |   |                                  |                         |  |
|                        | KAHALGAON STPS II   | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
|                        | TALCHER STPS STG-I  | -4.77                                 | -4.84                    |   |                                  |                         | -4.77                | -4.84                    |   |                                  |                         |  |
|                        | TALCHER STPS STG-II | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
|                        | TOTAL               | -16.49                                | -20.77                   | -48.03  | -835.60                          | -963.11                 | -16.49               | -20.77                   | -48.03  | -835.60                          | -963.11                 |  |
| NR                     | FARAKKA STPS I      | -43.96                                | -29.39                   |   |                                  |                         | -43.96               | -29.39                   |   |                                  |                         |  |
|                        | KAHALGAON STPS I    | -164.92                               | -110.20                  |   |                                  |                         | -164.92              | -110.20                  |   |                                  |                         |  |
|                        | KAHALGAON STPS II   | -548.55                               | -392.19                  |   |                                  |                         | -548.55              | -392.19                  |   |                                  |                         |  |
|                        | TALCHER STPS I      | 0.00                                  | 0.00                     |   |                                  |                         | 0.00                 | 0.00                     |   |                                  |                         |  |
|                        | TALA HPS            | -28.11                                | -9.69                    |   |                                  |                         | -28.11               | -9.69                    |   |                                  |                         |  |
|                        | TOTAL               | -785.54                               | -541.47                  | -1996.09  | -4015.76                         | -2929.95                | -785.54              | -541.47                  | -433.99   | -1018.01                         | -1322.11                |  |
| WR+SR+NR (GRAND TOTAL) | -1061.49            | -778.27                               | -1446.88                 | -4515.71  | -3059.13                         | -1061.49                | -778.27              | 115.22                   | -1517.96  | -1451.29                         |                         |  |
| NER                    | FARAKKA STPS I      | -20.52                                | -16.87                   |   |                                  |                         | -20.52               | -16.87                   |   |                                  |                         |  |
|                        | FARAKKA STPS III    | -0.30                                 | -0.12                    |   |                                  |                         | -0.30                | -0.12                    |   |                                  |                         |  |
|                        | KAHALGAON STPS I    | -15.76                                | -15.89                   |   |                                  |                         | -15.76               | -15.89                   |   |                                  |                         |  |
|                        | KAHALGAON STPS II   | -50.71                                | -45.46                   |   |                                  |                         | -50.71               | -45.46                   |   |                                  |                         |  |
|                        | TALCHER STPS I      | -16.81                                | -15.25                   |   |                                  |                         | -16.81               | -15.25                   |   |                                  |                         |  |
| TOTAL                  | -104.10             | -93.59                                | 12.11                    | -94.21  | -2.97                            | -104.10                 | -93.59               | 12.11                    | -94.21  | -2.97                            |                         |  |

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF APR-2017

| ORGANI-SATION      | TYPE                 | POWER STATION            | INSTALLED CAPACITY<br>( in MW ) | EFFECTIVE CAPACITY<br>( in MW ) | Gross Energy Generation<br>in MU | Net Energy Generation<br>in MU | Cummulative Gross Energy Generation upto Current Month<br>( 2017-18) in MU | Cummulative Net Energy Generation upto Current Month<br>( 2017-18) in MU |
|--------------------|----------------------|--------------------------|---------------------------------|---------------------------------|----------------------------------|--------------------------------|--|--|
| BIHAR              | Thermal              | Barauni (U# 6&7)         | 220.00                          | 210.00                          | 23.87                            | 23.87                          | 23.87  | 23.87  |
|                    |                      | Muzaffarpur              | 220.00                          | 220.00                          | 64.12                            | 55.32                          | 64.12  | 55.32  |
|                    |                      | <b>Thermal Total</b>     | <b>440.00</b>                   | <b>430.00</b>                   | <b>87.99</b>                     | <b>79.19</b>                   | <b>87.99</b>   | <b>79.19</b>   |
|                    | Hydro                | Kosi                     | 20.00                           | 20.00                           | 0.00                             | 0.00                           | 0.00   | 0.00   |
|                    |                      | Dehri & others           | 24.90                           | 24.90                           | 0.00                             | 0.00                           | 0.00   | 0.00   |
|                    |                      | <b>Total Hydro</b>       | <b>44.90</b>                    | <b>44.90</b>                    | <b>0.00</b>                      | <b>0.00</b>                    | <b>0.00</b>  | <b>0.00</b>  |
|                    | <b>Total BIHAR</b>   |                          |                                 | <b>484.90</b>                   | <b>474.90</b>                    | <b>87.99</b>                   | <b>79.19</b>   | <b>87.99</b>   |
| <b>JHARKHAND</b>   |                      |                          |                                 |                                 |                                  |                                |  |  |
| TVNL               | Thermal              | TVNL                     | 420.00                          | 420.00                          | 105.86                           | 89.80                          | 105.86   | 89.80  |
| JSEB               | Thermal              | Patratu                  | 840.00                          | 770.00                          | 0.00                             | 0.00                           | 0.00   | 0.00   |
|                    | Hydro                | Subarnrekha (U#1,2)      | 130.00                          | 130.00                          | 1.35                             | 1.35                           | 1.35   | 1.35   |
|                    | <b>Total</b>         |                          | <b>970.00</b>                   | <b>900.00</b>                   | <b>1.35</b>                      | <b>1.35</b>                    | <b>1.35</b>  | <b>1.35</b>  |
| DVC                | Thermal              | Bokaro-B(1,2,3)          | 630.00                          | 630.00                          | 88.25                            | 75.29                          | 88.25  | 75.29  |
|                    |                      | Chandrapura (1,2,3)      | 420.00                          | 390.00                          | 121.48                           | 108.13                         | 121.48   | 108.13   |
|                    |                      | Chandrapura( U7 # 8)     | 500.00                          | 500.00                          | 285.95                           | 242.63                         | 285.95   | 242.63   |
|                    |                      | Durgapur(3,4)            | 350.00                          | 350.00                          | 68.13                            | 59.09                          | 68.13  | 59.09  |
|                    |                      | Mezia(1,2,3,4,5,6)       | 1340.00                         | 1340.00                         | 608.34                           | 541.50                         | 608.34   | 541.50   |
|                    |                      | Mezia( U # 7,8)          | 1000.00                         | 1000.00                         | 634.09                           | 604.27                         | 634.09   | 604.27   |
|                    |                      | Bokaro-A(1,2)            | 500.00                          | 500.00                          | 288.31                           | 272.19                         | 288.31   | 272.19   |
|                    |                      | Durgapur STPS (U#1,2)    | 1000.00                         | 1000.00                         | 616.13                           | 586.09                         | 616.13   | 586.09   |
|                    |                      | Raghunathpur TPS (U#1,2) | 1200.00                         | 1200.00                         | 40.27                            | 33.85                          | 40.27  | 33.85  |
|                    |                      | Koderma STPS (U#1,2)     | 1000.00                         | 1000.00                         | 309.93                           | 292.86                         | 309.93   | 292.86   |
|                    | <b>Total Thermal</b> |                          | <b>7940.00</b>                  | <b>7910.00</b>                  | <b>3060.88</b>                   | <b>2815.90</b>                 | <b>3060.88</b>   | <b>2815.90</b>   |
|                    | Hydro                | Maithon (U#1,2,3)        | 63.20                           | 63.20                           | 16.30                            | 16.26                          | 16.30  | 16.26  |
|                    |                      | Panchet (U#1,2)          | 80.00                           | 80.00                           | 3.30                             | 3.23                           | 3.30   | 3.23   |
|                    |                      | Tilaya (U#1,2)           | 4.00                            | 4.00                            | 0.00                             | 0.00                           | 0.00   | 0.00   |
|                    |                      | <b>Hydro Total</b>       | <b>147.20</b>                   | <b>147.20</b>                   | <b>19.60</b>                     | <b>19.48</b>                   | <b>19.60</b>   | <b>19.48</b>   |
| <b>Total DVC</b>   |                      |                          | <b>8087.20</b>                  | <b>8057.20</b>                  | <b>3080.48</b>                   | <b>2835.38</b>                 | <b>3080.48</b>   | <b>2835.38</b>   |
| <b>WEST BENGAL</b> |                      |                          |                                 |                                 |                                  |                                |  |  |
| WBPDCCL            | Thermal              | Bandel TPS               | 540.00                          | 450.00                          | 189.53                           | 168.82                         | 189.53   | 168.82   |
|                    |                      | Santalidih TPS(U#5&6)    | 500.00                          | 500.00                          | 326.78                           | 299.60                         | 326.78   | 299.60   |
|                    |                      | Kolaghat TPS             | 1260.00                         | 1260.00                         | 366.74                           | 323.54                         | 366.74   | 323.54   |
|                    |                      | Bakreswar TPP            | 1050.00                         | 1050.00                         | 640.33                           | 578.42                         | 640.33   | 578.42   |
|                    |                      | Sagardighi TPP           | 1100.00                         | 1100.00                         | 537.42                           | 479.06                         | 537.42   | 479.06   |
|                    |                      | <b>Thermal Total</b>     | <b>4450.00</b>                  | <b>4360.00</b>                  | <b>2060.79</b>                   | <b>1849.44</b>                 | <b>2060.79</b>   | <b>1849.44</b>   |
| WBSEDCL            | Hydro                | Jaldhaka (3x9+2x4)       | 35.00                           | 35.00                           | 17.61                            | 17.61                          | 17.61  | 17.61  |
|                    |                      | Ramam (4x12.73)          | 51.00                           | 51.00                           | 8.24                             | 8.24                           | 8.24   | 8.24   |
|                    |                      | Teesta C.F. (3x3x7.3)    | 67.30                           | 67.30                           | 11.20                            | 11.20                          | 11.20  | 11.20  |
|                    |                      | Small hydro              | 12.00                           | 12.00                           | 0.00                             | 0.00                           | 0.00   | 0.00   |
|                    |                      | Purulia PSS (4x225)      | 900.00                          | 900.00                          | 70.78                            | 70.78                          | 70.78  | 70.78  |
|                    |                      | <b>Total Hydro</b>       | <b>1065.30</b>                  | <b>1065.30</b>                  | <b>107.83</b>                    | <b>107.83</b>                  | <b>107.83</b>  | <b>107.83</b>  |
| DPL                | Thermal              | DPPS (110+300+250 *)     | 660.00                          | 660.00                          | 240.82                           | 216.53                         | 240.82   | 216.53   |

\* Synchronised on 31.03.2014

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF APR-2017

| ORGANI-<br>SATION | TYPE                | POWER<br>STATION           | INSTALLED<br>CAPACITY<br>(in MW) | EFFECTIVE<br>CAPACITY<br>(in MW) | Gross<br>Energy<br>Generation<br>in MU | Net<br>Energy<br>Generation<br>in MU | Cummulative Gross<br>Energy Generation<br>upto Current Month<br>(2017-18) in MU | Cummulative Net<br>Energy Generation<br>upto Current Month<br>(2017-18) in MU |
|-------------------|---------------------|----------------------------|----------------------------------|----------------------------------|--|--------------------------------------|---|---|
| CESC              | Thermal             | Titagarh (4x60)            | 240.00                           | 240.00                           | 0.00                                   | 0.00                                 | 0.00  | 0.00  |
|                   |                     | Southern (2x67.5)          | 135.00                           | 135.00                           | 28.58                                  | 25.93                                | 28.58   | 25.93   |
|                   |                     | Budge-Budge (3x250)        | 750.00                           | 750.00                           | 542.25                                 | 500.64                               | 542.25  | 500.64  |
|                   |                     | Total CESC                 | 1125.00                          | 1125.00                          | 570.83                                 | 526.57                               | 570.83  | 526.57  |
| HEL               | Thermal             | HEL                        | 600.00                           | 600.00                           | 358.50                                 | 321.68                               | 358.50  | 321.68  |
|                   |                     | Total West Bengal          | 8192.30                          | 8102.30                          | 3338.77                                | 3022.04                              | 3338.77   | 3022.04   |
| ODISHA<br>(NTPC)  | Thermal             | Talcher-I                  | 250.00                           | 240.00                           | 140.72                                 | 125.64                               | 140.72  | 125.64  |
|                   |                     | Talcher-II                 | 220.00                           | 220.00                           | 169.31                                 | 151.16                               | 169.31  | 151.16  |
|                   |                     | Total Thermal              | 470.00                           | 460.00                           | 310.03                                 | 276.80                               | 310.03  | 276.80  |
| OPGC              | Thermal             | IB TPS                     | 420.00                           | 420.00                           | 255.02                                 | 226.59                               | 255.02  | 226.59  |
| OHPC              | Hydro               | Hirakud-I (Burla)          | 275.50                           | 275.50                           | 25.38                                  | 25.13                                | 25.38   | 25.13   |
|                   |                     | Hirakud-II (Chiplima)      | 72.00                            | 72.00                            | 16.96                                  | 16.90                                | 16.96   | 16.90   |
|                   |                     | Ballimela (6x60+2x75)      | 510.00                           | 510.00                           | 178.90                                 | 178.27                               | 178.90  | 178.27  |
|                   |                     | Rengali (5x50)             | 250.00                           | 250.00                           | 28.11                                  | 28.00                                | 28.11   | 28.00   |
|                   |                     | Upper Kolab (4x80)         | 320.00                           | 320.00                           | 86.36                                  | 86.19                                | 86.36   | 86.19   |
|                   |                     | Indravati HPS (4x150)      | 600.00                           | 600.00                           | 210.40                                 | 210.25                               | 210.40  | 210.25  |
|                   |                     | Mckd.(Odisha drawal)       | 57.38                            | 57.38                            | 32.33                                  | 32.33                                | 32.33   | 32.33   |
|                   |                     | Total Hydro                | 2084.88                          | 2084.88                          | 578.43                                 | 577.06                               | 578.43  | 577.06  |
|                   |                     | Total Odisha               | 2974.88                          | 2964.88                          | 888.46                                 | 853.86                               | 888.46  | 853.86  |
|                   |                     | (**) SIKKIM                | Hydro                            | Mini Hydro                       | 14.00                                  | 14.00                                | 3.00  | 3.00  |
| ^ Diesel          | 7.10                |                            |                                  | 7.10                             |  |                                      |   |   |
| NTPC              | Thermal             | FSTPP# I&II ( 3x200+2x500) | 1600.00                          | 1600.00                          | 584.10                                 | 540.29                               | 584.10  | 540.29  |
|                   |                     | FSTPP (U# 6)               | 500.00                           | 500.00                           | 308.16                                 | 285.05                               | 308.16  | 285.05  |
|                   |                     | KhSTPP (4x210+3x500)       | 2340.00                          | 2340.00                          | 1405.38                                | 1299.98                              | 1405.38   | 1299.98   |
|                   |                     | TSTPP (2x500)              | 1000.00                          | 1000.00                          | 608.53                                 | 562.89                               | 608.53  | 562.89  |
|                   |                     | BARH STPS II (2X660)       | 1320.00                          | 1320.00                          | 839.68                                 | 776.70                               | 839.68  | 776.70  |
|                   |                     | Total NTPC                 | 6760.00                          | 6760.00                          | 3745.85                                | 3464.91                              | 3745.85   | 3464.91   |
| NHPC              | HYDRO               | Rangit (3x20)              | 60.00                            | 60.00                            | 20.06                                  | 20.06                                | 20.06   | 20.06   |
|                   |                     | Teesta (3x170)             | 510.00                           | 510.00                           | 230.48                                 | 230.48                               | 230.48  | 230.48  |
|                   |                     | TLDP -( 4x33+4x40)         | 292.00                           | 292.00                           | 74.17                                  | 74.17                                | 74.17   | 74.17   |
|                   |                     | Total NHPC                 | 862.00                           | 862.00                           | 324.71                                 | 324.71                               | 324.71  | 324.71  |
| IPP               | MPL (U#1&2)         | 1050.00                    | 1050.00                          | 621.39                           | 588.11                                 | 621.39                               | 588.11  |   |
| IPP               | APNRL (U#1,2)       | 540.00                     | 540.00                           | 279.05                           | 254.36                                 | 279.05                               | 254.36  |   |
|                   | GMR (3x350)         | 1050.00                    | 1050.00                          | 399.82                           | 369.84                                 | 399.82                               | 369.84  |   |
|                   | JITPL (2X600)       | 1200.00                    | 1200.00                          | 305.41                           | 284.97                                 | 305.41                               | 284.97  |   |
|                   | CHUZACHEN** (2x55)  | 110.00                     | 110.00                           | 29.82                            | 29.68                                  | 29.82                                | 29.68   |   |
|                   | JORETHANG (2x48)    | 96.00                      | 96.00                            | 17.42                            | 16.11                                  | 17.42                                | 16.11   |   |
|                   | Total Thermal (E.R) | 27965.00                   | 27755.00                         | 12402.24                         | 11364.68                               | 12402.24                             | 11364.68  |   |
| EASTERN REGIONAL  | Total Hydro (E.R)   |                            | 4846.28                          | 4846.28                          | 1082.15                                | 1079.22                              | 1082.15   | 1079.22   |
|                   | Total Diesel        |                            | 7.10                             | 7.10                             | 0.00                                   | 0.00                                 | 0.00  | 0.00  |
|                   | Total Solar         |                            | 10.00                            | 10.00                            | 0.00                                   | 0.00                                 | 0.00  | 0.00  |
|                   | TOTAL (E.R)         |                            | 32828.38                         | 32618.38                         | 13484.39                               | 12443.90                             | 13484.39  | 12443.90  |
| BHUTAN            | Hydro               | CHPC(4x90)                 | 360.00                           | 270.00                           | 20.06                                  | 20.06                                | 20.06   | 20.06   |
|                   |                     | Kurichu (4x15)             | 60.00                            | 60.00                            | 0.00                                   | 0.00                                 | 0.00  | 0.00  |
|                   |                     | TALA (6x170)               | 1020.00                          | 1020.00                          | 64.63                                  | 64.63                                | 64.63   | 64.63   |
|                   |                     | DAGACHU (2x63)             | 126.00                           | 126.00                           | 10.50                                  | 10.50                                | 10.50   | 10.50   |
|                   |                     | Grand Total                | 34394.38                         | 34094.38                         | 13579.58                               | 12539                                | 13579.58  | 12539.09  |

Santalidih U#1,2,3,4 (120\*4=480MW) w.e.f 18.12.09, 4.10.09, 20.9.09 & 7.10.2008 respectively, DPL U#1,2 (2x30MW) w.e.f 01.04.11 & 01.04.11 & 3,4,5 (3x75 MW), Barauni U#4,5 (50\*2=100MW) & Chandrapura U#4,5,6 (120\*3=360MW) were decommissioned during 2010-11 & 2011-12 onwards.

\$ Barh U# CoD w.e.f 15.11.2014

\*\* First Unit Synchronised on 19.04.2013

\* CESC informed that N.Cossipore (130 MW)TPS ceased operation w.e.f 29.11.2014

\* HEL U#1 COD on 06.06.14 & U#2 COD on 12.02.15

\* JITPL U#1 COD on 28.01.15 & U#2 COD on 21.02.15

(\*\*) Lachung HEP (3.00 MW), Mangley HEP (2.00 MW), Rongli HEP (5.00 MW), Meyong Chu HEP (4.00 MW) are working.

^ Gangtok diesel Power House (4.00 MW), Ranipool Diesel Power House (1.00 MW), Jali Power House, Stage-I (2.10 MW) are working

Maithon HPS U#2 capacity increased from 20 MW to 23.2 MW.

GTs in West Bengal and DVC including Diesel in Sikkim are not operational since long. Accordingly, installed capacity of 195 MW (GT & Diesel) has been excluded from total installed capacity.



PLANT LOAD FACTOR ( PLF ) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF APR-2017

| ORGANI-<br>SATION  | TYPE                 | POWER<br>STATION         | INSTALLED<br>CAPACITY | EFFECTIVE<br>CAPACITY | Gross<br>Energy<br>Generation<br>in MU | PLF<br>of Current<br>Month<br>( % ) | Cummulative Gross<br>Energy Generation<br>upto Current Month<br>( 2017-18) in MU | Cummulative PLF<br>upto Current<br>Month<br>( % ) |
|--------------------|----------------------|--------------------------|-----------------------|-----------------------|--|-------------------------------------|--|---|
| BIHAR              | Thermal              | Barauni (U# 6&7)         | 220.00                | 210.00                | 23.87                                  | 15.79                               | 23.87  | 15.79   |
|                    |                      | Muzaffarpur              | 220.00                | 220.00                | 64.12                                  | 40.48                               | 64.12  | 40.48   |
|                    |                      | <b>Thermal Total</b>     | <b>440.00</b>         | <b>430.00</b>         | <b>87.99</b>                           | <b>28.42</b>                        | <b>87.99</b>   | <b>28.42</b>                                      |
|                    | Hydro                | Kosi                     | 20.00                 | 20.00                 | 0.00                                   |                                     | 0.00   |   |
|                    |                      | Dehri & others           | 24.90                 | 24.90                 | 0.00                                   |                                     | 0.00   |   |
|                    |                      | <b>Total Hydro</b>       | <b>44.90</b>          | <b>44.90</b>          | <b>0.00</b>                            |                                     | <b>0.00</b>  |   |
|                    | <b>Total BIHAR</b>   | <b>484.90</b>            | <b>474.90</b>         | <b>87.99</b>          |  | <b>87.99</b>                        |  |   |
| JHARKHAND          |                      |                          |                       |                       |  |                                     |  |   |
| TVNL               | Thermal              | TVNL                     | 420.00                | 420.00                | 105.86                                 | 35.01                               | 105.86   | 35.01   |
| JSEB               | Thermal              | Patratu                  | <b>840.00</b>         | <b>770.00</b>         | <b>0.00</b>                            | <b>0.00</b>                         | <b>0.00</b>  | <b>0.00</b>                                       |
|                    |                      | Hydro                    | Subarnrekha (U#1,2)   | 130.00                | 130.00                                 | 1.35                                |  | 1.35  |
|                    |                      | <b>Total</b>             | <b>970.00</b>         | <b>900.00</b>         | <b>1.35</b>                            |                                     | <b>1.35</b>  |   |
| DVC                | Thermal              | Bokaro-B(1,2,3)          | 630.00                | 630.00                | 88.25                                  | 19.46                               | 88.25  | 19.46   |
|                    |                      | Chandrapura (1,2,3)      | 420.00                | 390.00                | 121.48                                 | 43.26                               | 121.48   | 43.26   |
|                    |                      | Chandrapura( U7 # 8)     | 500.00                | 500.00                | 285.95                                 | 79.43                               | 285.95   | 79.43   |
|                    |                      | Durgapur(3,4)            | 350.00                | 350.00                | 68.13                                  | 27.04                               | 68.13  | 27.04   |
|                    |                      | Mezia(1,2,3,4,5,6)       | 1340.00               | 1340.00               | 608.34                                 | 63.05                               | 608.34   | 63.05   |
|                    |                      | Mezia( U # 7,8)          | 1000.00               | 1000.00               | 634.09                                 | 88.07                               | 634.09   | 88.07   |
|                    |                      | Bokaro-A(1,2)            | 500.00                | 500.00                | 288.31                                 | 80.09                               | 288.31   | 80.09   |
|                    |                      | Durgapur STPS (U#1,2)    | 1000.00               | 1000.00               | 616.13                                 | 85.57                               | 616.13   | 85.57   |
|                    |                      | Raghunathpur TPS (U#1,2) | 1200.00               | 1200.00               | 40.27                                  | 4.66                                | 40.27  | 4.66  |
|                    | Koderma STPS (U#1,2) | 1000.00                  | 1000.00               | 309.93                | 43.05                                  | 309.93                              | 43.05  |   |
|                    |                      | <b>Total Thermal</b>     | <b>7940.00</b>        | <b>7910.00</b>        | <b>3060.88</b>                         | <b>53.74</b>                        | <b>3060.88</b>   | <b>53.74</b>                                      |
|                    | Hydro                | Maitthon (U#1,2,3)       | 63.20                 | 63.20                 | 16.30                                  |                                     | 16.30  |   |
|                    |                      | Panchet (U#1,2)          | 80.00                 | 80.00                 | 3.30                                   |                                     | 3.30   |   |
| Tilaya (U#1,2)     |                      | 4.00                     | 4.00                  | 0.00                  |  | 0.00                                |  |   |
| <b>Hydro Total</b> |                      | <b>147.20</b>            | <b>147.20</b>         | <b>19.60</b>          |  | <b>19.60</b>                        |  |   |
|                    | <b>Total DVC</b>     | <b>8087.20</b>           | <b>8057.20</b>        | <b>3080.48</b>        |  | <b>3080.48</b>                      |  |   |
| WEST BENGAL        |                      |                          |                       |                       |  |                                     |  |   |
| WBPDCL             | Thermal              | Bandel TPS               | 540.00                | 450.00                | 189.53                                 | 58.50                               | 189.53   | 58.50   |
|                    |                      | Santalidih TPS(U#5&6)    | 500.00                | 500.00                | 326.78                                 | 90.77                               | 326.78   | 90.77   |
|                    |                      | Kolaghat TPS             | 1260.00               | 1260.00               | 366.74                                 | 40.43                               | 366.74   | 40.43   |
|                    |                      | Bakreswar TPP            | 1050.00               | 1050.00               | 640.33                                 | 84.70                               | 640.33   | 84.70   |
|                    |                      | Sagardighi TPP           | 1100.00               | 1100.00               | 537.42                                 | 67.86                               | 537.42   | 67.86   |
|                    |                      | <b>Thermal Total</b>     | <b>4450.00</b>        | <b>4360.00</b>        | <b>2060.79</b>                         | <b>65.65</b>                        | <b>2060.79</b>   | <b>65.65</b>                                      |
| WBSEDCL            | Hydro                | Jaldhaka (3x9+2x4)       | 35.00                 | 35.00                 | 17.61                                  |                                     | 17.61  |   |
|                    |                      | Ramam (4x12.73)          | 51.00                 | 51.00                 | 8.24                                   |                                     | 8.24   |   |
|                    |                      | Teesta C.F. (3x3x7.3)    | 67.30                 | 67.30                 | 11.20                                  |                                     | 11.20  |   |
|                    |                      | Small hydro              | 12.00                 | 12.00                 | 0.00                                   |                                     | 0.00   |   |
|                    |                      | Purulia PSS (4x225)      | 900.00                | 900.00                | 70.78                                  |                                     | 70.78  |   |
|                    |                      | <b>Total Hydro</b>       | <b>1065.30</b>        | <b>1065.30</b>        | <b>107.83</b>                          |                                     | <b>107.83</b>  |   |
|                    |                      | TLDP -( 4x33+4x40)       | 292.00                | 292.00                | 74.17                                  |                                     | 74.17  |   |
| DPL                | Thermal              | DPPS (110+300+250 *)     | <b>660.00</b>         | <b>660.00</b>         | <b>240.82</b>                          | <b>50.68</b>                        | <b>240.82</b>  | <b>50.68</b>                                      |

PLANT LOAD FACTOR ( PLF ) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF APR-2017

| ORGANISATION     | TYPE    | POWER STATION              | INSTALLED CAPACITY<br>( in MW ) | EFFECTIVE CAPACITY<br>( in MW ) | Gross Energy<br>Generation<br>in MU | PLF of Current<br>Month<br>( % ) | Cummulative Gross<br>Energy Generation<br>upto Current Month<br>( 2017-18 ) in MU | Cummulative PLF<br>upto Current<br>Month<br>( % ) |
|------------------|---------|----------------------------|---------------------------------|---------------------------------|-------------------------------------|----------------------------------|---|---|
| CESC             | Thermal | Titagarh (4x60)            | 240.00                          | 240.00                          | 0.00                                | 0.00                             | 0.00  | 0.00  |
|                  |         | Southern (2x67.5)          | 135.00                          | 135.00                          | 28.58                               | 29.40                            | 28.58   | 29.40   |
|                  |         | Budge-Budge (3x250)        | 750.00                          | 750.00                          | 542.25                              | 100.42                           | 542.25  | 100.42  |
|                  |         | <b>Total CESC</b>          | <b>1125.00</b>                  | <b>1125.00</b>                  | <b>570.83</b>                       | <b>70.47</b>                     | <b>570.83</b>   | <b>70.47</b>                                      |
| HEL              | Thermal |                            | <b>600.00</b>                   | <b>600.00</b>                   | <b>358.50</b>                       | <b>82.99</b>                     | <b>358.50</b>   | <b>82.99</b>                                      |
|                  |         | <b>Total West Bengal</b>   | <b>8192.30</b>                  | <b>8102.30</b>                  | <b>3338.77</b>                      |                                  | <b>3338.77</b>  |   |
| ODISHA<br>(NTPC) | Thermal | Talcher-I                  | 250.00                          | 240.00                          | 140.72                              | 81.44                            | 140.72  | 81.44   |
|                  |         | Talcher-II                 | 220.00                          | 220.00                          | 169.31                              | 106.88                           | 169.31  | 106.88  |
|                  |         | <b>Total Thermal</b>       | <b>470.00</b>                   | <b>460.00</b>                   | <b>310.03</b>                       | <b>93.61</b>                     | <b>310.03</b>   | <b>93.61</b>                                      |
| OPGC             | Thermal | IB TPS                     | <b>420.00</b>                   | <b>420.00</b>                   | <b>255.02</b>                       | <b>84.33</b>                     | <b>255.02</b>   | <b>84.33</b>                                      |
| OHPC             | Hydro   | Hirakud-I (Burla)          | 275.50                          | 275.50                          | 25.38                               |                                  | 25.38   |   |
|                  |         | Hirakud-II (Chiplima)      | 72.00                           | 72.00                           | 16.96                               |                                  | 16.96   |   |
|                  |         | Balimela (6x60+2x75)       | 510.00                          | 510.00                          | 178.90                              |                                  | 178.90  |   |
|                  |         | Rengali (5x50)             | 250.00                          | 250.00                          | 28.11                               |                                  | 28.11   |   |
|                  |         | Upper Kolab (4x80)         | 320.00                          | 320.00                          | 86.36                               |                                  | 86.36   |   |
|                  |         | Indravati HPS (4x150)      | 600.00                          | 600.00                          | 210.40                              |                                  | 210.40  |   |
|                  |         | Mckd.(Odisha drawal)       | 57.38                           | 57.38                           | 32.33                               |                                  | 32.33   |   |
|                  |         | <b>Total Hydro</b>         | <b>2084.88</b>                  | <b>2084.88</b>                  | <b>578.43</b>                       |                                  | <b>578.43</b>   |   |
|                  |         | <b>Total Odisha</b>        | <b>2974.88</b>                  | <b>2964.88</b>                  | <b>888.46</b>                       |                                  | <b>888.46</b>   |   |
| (**) SIKKIM      | Hydro   | Mini Hydro                 | 14.00                           | 14.00                           | 3.00                                |                                  | 3.00  |   |
|                  |         | ^ Diesel                   | 7.10                            | 7.10                            |                                     |                                  |   |   |
| NTPC             | Thermal | FSTPP# I&II ( 3x200+2x500) | 1600.00                         | 1600.00                         | 584.10                              | 50.70                            | 584.10  | 50.70   |
|                  |         | FSTPP (U# 6)               | 500.00                          | 500.00                          | 308.16                              | 85.60                            | 308.16  | 85.60   |
|                  |         | KhSTPP (4x210+3x500)       | 2340.00                         | 2340.00                         | 1405.38                             | 83.42                            | 1405.38   | 83.42   |
|                  |         | TSTPP (2x500)              | 1000.00                         | 1000.00                         | 608.53                              | 84.52                            | 608.53  | 84.52   |
|                  |         | BARH STPS II (2X660)       | 1320.00                         | 1320.00                         | 839.68                              | 88.35                            | 839.68  | 88.35   |
|                  |         | <b>Total NTPC</b>          | <b>6760.00</b>                  | <b>6760.00</b>                  | <b>3745.85</b>                      | <b>76.96</b>                     | <b>3745.85</b>  | <b>76.96</b>                                      |
| NHPC             | HYDRO   | Rangit (3x20)              | 60.00                           | 60.00                           | 20.06                               |                                  | 20.06   |   |
|                  |         | Teesta (3x170)             | 510.00                          | 510.00                          | 230.48                              |                                  | 230.48  |   |
|                  |         | TLDP -( 4x33+4x40)         | 292.00                          | 292.00                          | 74.17                               |                                  | 74.17   |   |
|                  |         | <b>Total NHPC</b>          | <b>862.00</b>                   | <b>862.00</b>                   | <b>324.71</b>                       |                                  | <b>324.71</b>   |   |
| IPP<br>IPP       | Thermal | MPL (U#1&2)                | 1050.00                         | 1050.00                         | 621.39                              | 82.19                            | 621.39  | 82.19   |
|                  |         | APNRL (U#1,2)              | 540.00                          | 540.00                          | 279.05                              | 71.77                            | 279.05  | 71.77   |
|                  |         | GMR (3x350)                | 1050.00                         | 1050.00                         | 399.82                              | 52.89                            | 399.82  | 52.89   |
|                  |         | JITPL (2X600)              | 1200.00                         | 1200.00                         | 305.41                              | 35.35                            | 305.41  | 35.35   |
|                  |         | CHUZACHEN** (2x55)         | 110.00                          | 110.00                          | 29.82                               |                                  | 29.82   |   |
|                  |         | JORETHANG (2x48)           | 96.00                           | 96.00                           | 17.42                               |                                  | 17.42   |   |
|                  |         | <b>Total Thermal (E.R)</b> | <b>27965.00</b>                 | <b>27755.00</b>                 | <b>12402.24</b>                     | <b>62.70</b>                     | <b>12402.24</b>   | <b>62.70</b>                                      |
|                  |         | <b>Total Hydro (E.R)</b>   | <b>4846.28</b>                  | <b>4846.28</b>                  | <b>1082.15</b>                      |                                  | <b>1082.15</b>  |   |
| EASTERN REGIONAL |         | <b>Total Diesel</b>        | 7.10                            | 7.10                            | 0.00                                |                                  | 0.00  |   |
|                  |         | <b>Total Solar</b>         | 10.00                           | 10.00                           | 0.00                                |                                  | 0.00  |   |
|                  |         | <b>TOTAL (E.R)</b>         | <b>32828.38</b>                 | <b>32618.38</b>                 | <b>13484.39</b>                     |                                  | <b>13484.39</b>   |   |
|                  |         |                            |                                 |                                 |                                     |                                  |   |   |
| BHUTAN           | Hydro   | CHPC(4x90)                 | 360.00                          | 270.00                          | 20.06                               |                                  | 20.06   |   |
|                  |         | Kurichu (4x15)             | 60.00                           | 60.00                           | 0.00                                |                                  | 0.00  |   |
|                  |         | TALA (6x170)               | 1020.00                         | 1020.00                         | 64.63                               |                                  | 64.63   |   |
|                  |         | DAGACHU (2x63)             | 126.00                          | 126.00                          | 10.50                               |                                  | 10.50   |   |
|                  |         | <b>Grand Total</b>         | <b>34394.38</b>                 | <b>34094.38</b>                 | <b>13579.58</b>                     |                                  | <b>13579.58</b>   |   |

➤ On calculation of Eastern Regional PLF, Installed Capacity of IPPs as well as their generations (MU) including infirm generation of various units have not been considered.

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK DURING THE MONTH OF APR-2017 (1-4-2017)

Date 1-Apr-17  
Time 20.00 Hrs.  
Frequency 50.01 Hz.

(All Fig. in MW )

| System/State         | Installed | Effective | Hydro     | Thermal  | Total        |
|----------------------|-----------|-----------|-----------|----------|--------------|
|                      | Capacity  | Capacity  |           |          |              |
| BSPHCL               | 485       | 475       | 0         | 295      | 295          |
| JUSNL                | 1390      | 1320      | 0         | 100      | 100          |
| DVC                  | 8087      | 8057      | 132       | 4053     | 4185         |
| ODISHA               | 2975      | 2965      | 1346      | 802      | 2148         |
| WBSEDCL              | 5515      | 5425      | 334       | 2544     | 2878         |
| TLDP                 | 292       | 292       | 262       | 0        | 262          |
| HEL HALDIA           | 600       | 600       | 0         | 496      | 496          |
| CESC                 | 1125      | 1125      | 0         | 866      | 866          |
| DPL                  | 660       | 660       | 0         | 406      | 406          |
| SIKKIM               | 14        | 14        | 0         | 0        | 0            |
| NTPC                 | 6760      | 6760      | 0         | 4956     | 4956         |
| NHPC                 | 862       | 862       | 581       | 0        | 581          |
| CHUKHA               | 360       | 270       | 461       | 0        | 461          |
| KURICHU              | 60        | 60        | 53        | 0        | 53           |
| TALA                 | 1020      | 1020      | 216       | 0        | 216          |
| SEL                  | 0         | 0         | 0         | 0        | 0            |
| APNRL                | 540       | 540       | 0         | 432      | 432          |
| Kamal ganga (GMR)    | 1050      | 1050      | 0         | 521      | 521          |
| JITPL                | 1200      | 1200      | 0         | 491      | 491          |
| Chuzachen            | 110       | 110       | 98        | 0        | 98           |
| Jorethang            | <b>96</b> | <b>96</b> | <b>70</b> | <b>0</b> | <b>70</b>    |
| <u>Daghachu</u>      | 126       | 126       | 61        | 0        | <b>61</b>    |
| <u>Total</u>         | 34394     | 34094     | 3615      | 16432    | 20047        |
| Import From Captive: |           |           |           |          | <b>1388</b>  |
| Export To:           |           |           |           |          |              |
| NER                  |           |           |           |          | <b>601</b>   |
| SR                   |           |           |           |          | <b>825</b>   |
| WR                   |           |           |           |          | <b>-1284</b> |
| NR                   |           |           |           |          | 1502.72      |
| Bangladesh           |           |           |           |          | 498.29       |
| Nepal                |           |           |           |          | 128.52       |
| Total                |           |           |           |          | <b>2271</b>  |

Regional Net Peak Demand Met ( MW ) :

**19164**

➤ Indicates Export(+)/Import(-) of Power

**Hourly Load Generation Data OF ER On Regional Peak Day During The Month of APR-2017 (1-4-2017)**

( All Figures in MW)

| Hrs. | Generation |         |    |       | Import<br>from Captive | Net<br>Import From<br>CHPS, KHPS & TALA | Net<br>Export<br>to other region | Demand<br>Met | Freq.<br>Correction | Load<br>Shed | Requirement  |
|------|------------|---------|----|-------|------------------------|---|----------------------------------|---------------|---------------------|--------------|--------------|
|      | Hydro      | Thermal | GT | Total |                        |   |                                  |               |                     |              |              |
| 1    | 1359       | 21083   | 0  | 22442 | 1287                   | 317                                     | 1680                             | 16208         | 41                  | 349          | 16598        |
| 2    | 1235       | 20601   | 1  | 21837 | 1277                   | 340                                     | 1189                             | 16248         | 9                   | 393          | 16649        |
| 3    | 1288       | 20579   | 2  | 21869 | 1277                   | 347                                     | 1000                             | 16420         | 6                   | 392          | 16818        |
| 4    | 1278       | 20422   | 3  | 21704 | 1295                   | 374                                     | 1148                             | 16240         | 0                   | 393          | 16633        |
| 5    | 1211       | 20464   | 4  | 21678 | 1310                   | 366                                     | 1300                             | 16169         | -7                  | 393          | 16555        |
| 6    | 1340       | 19957   | 5  | 21301 | 1278                   | 404                                     | 1663                             | 15686         | -1                  | 381          | 16065        |
| 7    | 1255       | 19135   | 6  | 20396 | 1071                   | 388                                     | 1705                             | 14786         | -25                 | 335          | 15096        |
| 8    | 1275       | 19019   | 7  | 20301 | 1013                   | 486                                     | 1432                             | 15054         | -12                 | 16           | 15059        |
| 9    | 1312       | 19271   | 8  | 20591 | 986                    | 556                                     | 2261                             | 14689         | -9                  | 15           | 14695        |
| 10   | 1374       | 19618   | 9  | 21000 | 979                    | 462                                     | 2430                             | 14669         | -27                 | 41           | 14683        |
| 11   | 1459       | 19809   | 10 | 21278 | 1052                   | 421                                     | 2394                             | 14863         | -3                  | 35           | 14896        |
| 12   | 1666       | 20196   | 11 | 21874 | 980                    | 674                                     | 2664                             | 15273         | 4                   | 29           | 15306        |
| 13   | 1536       | 20359   | 12 | 21907 | 1068                   | 716                                     | 2938                             | 15051         | 13                  | 12           | 15076        |
| 14   | 1451       | 19917   | 13 | 21381 | 1078                   | 750                                     | 2553                             | 14821         | -5                  | 13           | 14829        |
| 15   | 1521       | 19863   | 14 | 21398 | 1149                   | 750                                     | 2538                             | 14917         | 18                  | 13           | 14949        |
| 16   | 1583       | 19809   | 15 | 21407 | 1105                   | 747                                     | 2471                             | 14978         | -1                  | 26           | 15002        |
| 17   | 1639       | 19207   | 16 | 20862 | 1093                   | 734                                     | 2311                             | 14792         | 16                  | 34           | 14841        |
| 18   | 1795       | 19230   | 17 | 21041 | 1081                   | 747                                     | 2445                             | 14933         | 10                  | 21           | 14965        |
| 19   | 2201       | 21619   | 18 | 23838 | 1306                   | 740                                     | 1316                             | 17873         | 17                  | 81           | 17972        |
| 20   | 2885       | 22876   | 19 | 25780 | 1389                   | 731                                     | 1644                             | <b>19164</b>  | -5                  | 229          | <b>19387</b> |
| 21   | 2569       | 21477   | 20 | 24067 | 1352                   | 731                                     | 1392                             | 18044         | -8                  | 159          | 18194        |
| 22   | 2481       | 21072   | 21 | 23574 | 1448                   | 755                                     | 1319                             | 18037         | 17                  | 180          | 18235        |
| 23   | 2260       | 20898   | 22 | 23180 | 1469                   | 788                                     | 1367                             | 17720         | 6                   | 180          | 17907        |
| 24   | 1787       | 20569   | 23 | 22380 | 1475                   | 793                                     | 1606                             | 17039         | 9                   | 170          | 17218        |

**Hourly Load Generation Data of ER On Regional Lean Day During The Month of APR-2017 (24-4-2017)**

( All Figures in MW )

| Hrs. | Generation |         |    |       | Import<br>from Captive | Net<br>Import From<br>CHPS, KHPS & TALA | Net<br>Export<br>to other region | Demand<br>Met | Freq.<br>Correction | Load<br>Shed | Requirement  |
|------|------------|---------|----|-------|------------------------|---|----------------------------------|---------------|---------------------|--------------|--------------|
|      | Hydro      | Thermal | GT | Total |                        |   |                                  |               |                     |              |              |
| 1    | 1380       | 12073   | 0  | 13453 | 1019                   | 403                                     | 2377                             | 12834         | -12                 | 171          | 12993        |
| 2    | 1448       | 11712   | 1  | 13161 | 1085                   | 399                                     | 2687                             | 12391         | -7                  | 168          | 12552        |
| 3    | 1446       | 11344   | 2  | 12792 | 1002                   | 394                                     | 3057                             | 11672         | 0                   | 163          | 11835        |
| 4    | 1359       | 11312   | 3  | 12673 | 1022                   | 387                                     | 3113                             | 11308         | -12                 | 163          | 11459        |
| 5    | 1346       | 11332   | 4  | 12682 | 1003                   | 404                                     | 3116                             | 11362         | -4                  | 155          | 11512        |
| 6    | 1372       | 11269   | 5  | 12646 | 1007                   | 393                                     | 3217                             | 11188         | -6                  | 149          | 11331        |
| 7    | 1379       | 11279   | 6  | 12664 | 971                    | 479                                     | 3618                             | <b>10914</b>  | -17                 | 153          | <b>11050</b> |
| 8    | 1396       | 11436   | 7  | 12839 | 948                    | 584                                     | 3404                             | 11390         | -17                 | 141          | 11514        |
| 9    | 1370       | 11570   | 8  | 12948 | 987                    | 600                                     | 3418                             | 11535         | -6                  | 139          | 11668        |
| 10   | 1276       | 11801   | 9  | 13085 | 962                    | 553                                     | 2964                             | 12089         | 3                   | 131          | 12224        |
| 11   | 1227       | 12064   | 10 | 13301 | 1033                   | 548                                     | 2888                             | 12375         | 21                  | 123          | 12519        |
| 12   | 1120       | 12237   | 11 | 13369 | 1022                   | 535                                     | 2903                             | 12432         | 27                  | 124          | 12584        |
| 13   | 1026       | 12615   | 12 | 13653 | 1041                   | 543                                     | 3170                             | 12544         | 20                  | 116          | 12679        |
| 14   | 989        | 12746   | 13 | 13749 | 1047                   | 521                                     | 3033                             | 12753         | 12                  | 99           | 12864        |
| 15   | 829        | 13322   | 14 | 14165 | 1130                   | 526                                     | 3041                             | 13258         | 19                  | 94           | 13371        |
| 16   | 894        | 13434   | 15 | 14344 | 1075                   | 483                                     | 3419                             | 12975         | 27                  | 90           | 13093        |
| 17   | 828        | 13111   | 16 | 13955 | 1081                   | 457                                     | 3157                             | 12821         | 18                  | 83           | 12922        |
| 18   | 1056       | 13144   | 17 | 14218 | 1057                   | 417                                     | 2998                             | 13139         | 8                   | 78           | 13225        |
| 19   | 1588       | 14445   | 18 | 16050 | 1130                   | 371                                     | 2010                             | 15850         | -4                  | 78           | 15924        |
| 20   | 1907       | 14862   | 19 | 16788 | 1211                   | 367                                     | 2971                             | 15703         | 38                  | 163          | 15905        |
| 21   | 1875       | 14876   | 20 | 16771 | 1168                   | 381                                     | 2870                             | 15745         | 14                  | 106          | 15864        |
| 22   | 1488       | 14995   | 21 | 16504 | 1233                   | 372                                     | 3224                             | 15190         | 25                  | 397          | 15613        |
| 23   | 1358       | 14988   | 22 | 16368 | 1188                   | 374                                     | 3373                             | 14881         | 33                  | 353          | 15267        |
| 24   | 1204       | 14858   | 23 | 16085 | 1109                   | 372                                     | 3415                             | 14529         | 32                  | 324          | 14884        |

**NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR**

**FOR THE MONTH OF APR-2017**

**POWER CUT / RESTRICTIONS**

|                    |   |
|--------------------|---|
| <b>BSEB</b>        | NO NOTIFIED CUTS/RESTRICTIONS<br>However there was loadshedding of 75.73 MU   |
| <b>JSEB</b>        | NO NOTIFIED CUTS/RESTRICTIONS<br>However there was loadshedding of 3.39 MU    |
| <b>DVC</b>         | NO NOTIFIED CUTS/RESTRICTIONS.<br>However there was loadshedding of 1.11MU    |
| <b>ODISHA</b>      | NO NOTIFIED CUTS/RESTRICTIONS<br>However there was loadshedding of 0.00 MU    |
| <b>WEST BENGAL</b> | NO NOTIFIED CUTS/RESTRICTIONS.<br>However there was loadshedding of 26.303 MU |

**POWER SUPPLY TO AGRICULTURAL SECTOR**

| <b>STATE</b>       | <b>HOURS OF SUPPLY ( AVERAGE / DAY )</b> |
|--------------------|--|
| <b>BIHAR</b>       | 18 HRS.00 MINS.                          |
| <b>JHARKHAND</b>   | ABOUT 20 to 22 HRS.                      |
| <b>ODISHA</b>      | 24 HRS.                                  |
| <b>WEST BENGAL</b> | 23 HRS.                                  |

FREQUENCY DETAILS FOR THE MONTH OF

Apr-17

| D<br>A<br>T<br>E | H O U R S      |                |                |                |                |                |       |                    |        |                     | INST. FREQ. |       |           |       | 15 MIN. INTEGRATED |      |           |      |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|--------------------|--------|---------------------|-------------|-------|-----------|-------|--------------------|------|-----------|------|
|                  | 00<br>TO<br>05 | 05<br>TO<br>10 | 10<br>TO<br>17 | 17<br>TO<br>22 | 22<br>TO<br>24 | 00<br>TO<br>24 | <49.9 | 49.9<br>TO<br>50.1 | >50.05 | 49.9<br>TO<br>50.05 | MAX<br>HZ   | HRS.  | MIN<br>HZ | HRS.  | MAX<br>HZ          | HRS. | MIN<br>HZ | HRS. |
| 01-Apr           | 49.98          | 50.03          | 49.99          | 49.99          | 49.99          | 50.00          | 3.15  | 74.37              | 22.48  | 74.37               | 50.17       | 7:03  | 49.84     | 0:07  | 50.09              | 0:00 | 49.91     | 0:00 |
| 02-Apr           | 49.99          | 50.01          | 49.96          | 49.99          | 49.97          | 49.98          | 6.02  | 78.55              | 15.43  | 78.55               | 50.19       | 17:32 | 49.82     | 16:23 | 50.08              | 0:00 | 49.88     | 0:00 |
| 03-Apr           | 50.00          | 50.00          | 49.96          | 49.99          | 49.96          | 49.98          | 7.63  | 77.02              | 15.35  | 77.02               | 50.18       | 11:01 | 49.76     | 22:40 | 50.05              | 0:00 | 49.89     | 0:00 |
| 04-Apr           | 49.96          | 50.01          | 49.96          | 49.99          | 50.00          | 49.98          | 8.07  | 74.75              | 17.18  | 74.75               | 50.21       | 18:02 | 49.79     | 16:10 | 50.09              | 0:00 | 49.87     | 0:00 |
| 05-Apr           | 49.98          | 49.99          | 49.99          | 49.99          | 49.97          | 49.99          | 4.49  | 75.74              | 19.77  | 75.74               | 50.23       | 13:03 | 49.79     | 6:10  | 0.00               | 0:00 | 0.00      | 0:00 |
| 06-Apr           | 50.00          | 50.04          | 50.00          | 49.95          | 49.92          | 49.99          | 7.59  | 70.74              | 21.67  | 70.74               | 50.19       | 9:02  | 49.78     | 22:13 | 50.11              | 0:00 | 49.85     | 0:00 |
| 07-Apr           | 49.98          | 50.00          | 49.98          | 49.99          | 49.93          | 49.98          | 5.05  | 81.73              | 13.22  | 81.73               | 50.16       | 13:03 | 49.80     | 22:21 | 50.07              | 0:00 | 49.89     | 0:00 |
| 08-Apr           | 49.98          | 49.99          | 49.96          | 49.98          | 49.91          | 49.97          | 12.74 | 74.98              | 12.28  | 74.98               | 50.17       | 17:33 | 49.70     | 14:12 | 50.06              | 0:00 | 49.86     | 0:00 |
| 09-Apr           | 49.97          | 50.03          | 50.00          | 49.99          | 49.97          | 50.00          | 5.06  | 72.63              | 22.31  | 72.63               | 50.25       | 17:34 | 49.81     | 21:06 | 50.13              | 0:00 | 49.86     | 0:00 |
| 10-Apr           | 50.00          | 50.01          | 50.00          | 49.97          | 49.94          | 49.99          | 6.90  | 70.90              | 22.20  | 70.90               | 50.23       | 13:02 | 49.69     | 19:16 | 50.17              | 0:00 | 49.84     | 0:00 |
| 11-Apr           | 49.97          | 49.99          | 49.98          | 49.97          | 49.93          | 49.97          | 8.07  | 79.64              | 12.29  | 79.64               | 50.16       | 16:04 | 49.78     | 22:10 | 0.00               | 0:00 | 0.00      | 0:00 |
| 12-Apr           | 49.99          | 50.02          | 49.95          | 49.94          | 49.88          | 49.96          | 13.43 | 71.26              | 15.31  | 71.26               | 50.16       | 6:02  | 49.76     | 22:14 | 50.09              | 0:00 | 49.79     | 0:00 |
| 13-Apr           | 49.93          | 49.98          | 49.98          | 49.98          | 49.95          | 49.96          | 9.64  | 80.17              | 10.19  | 80.17               | 50.20       | 9:36  | 49.80     | 3:36  | 50.09              | 0:00 | 49.88     | 0:00 |
| 14-Apr           | 50.00          | 50.02          | 49.98          | 49.98          | 49.97          | 49.99          | 4.42  | 76.90              | 18.68  | 76.90               | 50.19       | 5:05  | 49.80     | 19:14 | 0.00               | 0:00 | 0.00      | 0:00 |
| 15-Apr           | 49.98          | 50.03          | 50.01          | 49.99          | 49.97          | 50.00          | 2.72  | 74.83              | 22.45  | 74.83               | 50.17       | 10:00 | 49.83     | 21:07 | 50.10              | 0:00 | 49.85     | 0:00 |
| 16-Apr           | 50.00          | 50.05          | 50.01          | 50.00          | 50.01          | 50.01          | 1.19  | 68.25              | 30.56  | 68.25               | 50.18       | 9:01  | 49.72     | 11:41 | 50.13              | 0:00 | 49.94     | 0:00 |
| 17-Apr           | 49.99          | 49.99          | 49.98          | 49.92          | 49.91          | 49.96          | 12.83 | 74.02              | 13.15  | 74.02               | 50.16       | 11:02 | 49.66     | 21:12 | 50.10              | 0:00 | 49.77     | 0:00 |
| 18-Apr           | 49.94          | 49.98          | 49.98          | 49.94          | 49.91          | 49.96          | 10.90 | 80.45              | 8.65   | 80.45               | 50.19       | 18:01 | 49.74     | 19:15 | 50.06              | 0:00 | 49.85     | 0:00 |
| 19-Apr           | 49.95          | 50.00          | 49.97          | 50.00          | 49.91          | 49.97          | 9.63  | 76.97              | 13.40  | 76.97               | 50.18       | 18:01 | 49.72     | 0:08  | 50.07              | 0:00 | 49.81     | 0:00 |
| 20-Apr           | 49.97          | 50.01          | 49.97          | 49.97          | 49.93          | 49.98          | 9.39  | 76.10              | 14.51  | 76.10               | 50.16       | 6:03  | 49.70     | 22:08 | 50.08              | 0:00 | 49.84     | 0:00 |
| 21-Apr           | 49.96          | 50.00          | 49.98          | 49.96          | 49.98          | 49.98          | 8.57  | 76.82              | 14.61  | 76.82               | 50.17       | 13:01 | 49.80     | 14:48 | 0.00               | 0:00 | 0.00      | 0:00 |
| 22-Apr           | 50.04          | 50.04          | 50.01          | 49.97          | 49.97          | 50.01          | 3.36  | 66.94              | 29.70  | 66.94               | 50.18       | 8:03  | 49.84     | 22:08 | 0.00               | 0:00 | 0.00      | 0:00 |
| 23-Apr           | 49.97          | 50.03          | 49.99          | 50.00          | 49.99          | 50.00          | 2.21  | 76.67              | 21.12  | 76.67               | 50.24       | 18:04 | 49.84     | 4:45  | 50.13              | 0:00 | 49.94     | 0:00 |
| 24-Apr           | 50.02          | 50.02          | 49.95          | 49.97          | 49.94          | 49.98          | 8.45  | 73.96              | 17.59  | 73.96               | 50.18       | 6:01  | 49.77     | 17:18 | 50.08              | 0:00 | 49.87     | 0:00 |
| 25-Apr           | 49.96          | 49.98          | 49.95          | 49.97          | 49.88          | 49.96          | 15.61 | 74.53              | 9.86   | 74.53               | 50.17       | 18:33 | 49.77     | 22:45 | 50.08              | 0:00 | 49.82     | 0:00 |
| 26-Apr           | 49.95          | 49.98          | 49.95          | 49.94          | 49.91          | 49.95          | 19.26 | 72.85              | 7.89   | 72.85               | 50.22       | 10:01 | 49.76     | 21:25 | 50.09              | 0:00 | 49.84     | 0:00 |
| 27-Apr           | 49.94          | 49.99          | 49.92          | 49.96          | 49.86          | 49.94          | 27.45 | 64.10              | 8.45   | 64.10               | 50.20       | 6:01  | 49.70     | 14:27 | 50.08              | 0:00 | 49.77     | 0:00 |
| 28-Apr           | 49.91          | 49.95          | 49.93          | 50.00          | 49.93          | 49.94          | 21.58 | 68.43              | 9.99   | 68.43               | 50.18       | 18:35 | 49.76     | 14:22 | 50.09              | 0:00 | 49.82     | 0:00 |
| 29-Apr           | 49.95          | 49.98          | 49.95          | 50.00          | 49.96          | 49.97          | 11.45 | 74.94              | 13.61  | 74.94               | 50.16       | 18:31 | 49.77     | 14:22 | 50.08              | 0:00 | 49.84     | 0:00 |
| 30-Apr           | 49.95          | 50.02          | 50.00          | 50.01          | 49.95          | 49.99          | 4.75  | 75.60              | 19.65  | 75.60               | 50.26       | 18:02 | 49.75     | 19:12 | 50.12              | 0:00 | 49.88     | 0:00 |
| MAX              | 50.04          | 50.05          | 50.01          | 50.01          | 50.01          | 50.01          | 27.45 | 81.73              | 30.56  | 81.73               | 50.26       |       | 49.84     |       | 50.17              |      | 49.94     |      |
| MIN              | 49.91          | 49.95          | 49.92          | 49.92          | 49.86          | 49.94          | 1.19  | 64.10              | 7.89   | 64.10               | 50.16       |       | 49.66     |       | 50.05              |      | 49.77     |      |
| AVG              | 49.97          | 50.00          | 49.97          | 49.98          | 49.94          | 49.98          | 9.05  | 74.49              | 16.45  | 74.49               | 50.19       |       | 49.77     |       | 50.09              |      | 49.85     |      |

SUMMARY:

Avg. Frequency : **49.98 Hz.**

Instantaneous Frequency :

Maximum Frequency : 50.26 Hz On 00/01/00 at 18:02 Hrs.

Minimum Frequency : 49.66 Hz On 00/01/00 at 19:15 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.17 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.77 Hz On 00/01/00 at 00:00 Hrs

| Frequency Distribution in % of Time |       |            |        |
|-------------------------------------|-------|------------|--------|
| Hz                                  | <49.9 | 49.9-50.05 | >50.05 |
| % of Time                           | 9.05  | 74.49      | 16.45  |

## VOLTAGE ANALYSIS

## MAXIMUM &amp; MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF APR-2017

( All figs. in kV)

| PGCIL | BINAGURI |     | MAITHON |     | JEERAT |     | BIHARSHARIFF |     |
|-------|----------|-----|---------|-----|--------|-----|--------------|-----|
|       | MAX      | MIN | MAX     | MIN | MAX    | MIN | MAX          | MIN |
|       | 429      | 394 | 419     | 401 | 425    | 374 | 423          | 391 |

| PGCIL | MUZAFFARPUR |     | JAMSHEDPUR |     | ROURKELA |     | JEYPORE |     |
|-------|-------------|-----|------------|-----|----------|-----|---------|-----|
|       | MAX         | MIN | MAX        | MIN | MAX      | MIN | MAX     | MIN |
|       | 422         | 380 | 430        | 413 | 414      | 401 | 436     | 371 |

## ANNEXURE-III

## DETAILS OF CONSTITUENT WISE LOAD SHEDDING IMPLEMENTED THROUGH UFRs IN THE EASTERN REGION

Expected Load Relief through UFRs by ER Constituent:

(All Fig. are in MW)

| STATES/<br>UTILITIES        | STAGE-I<br>(49.2 Hz)<br>(Inst.) | STAGE-II<br>(49.0 Hz)<br>(Inst.) | STAGE-III<br>(48.8 Hz)<br>(Inst.) | STAGE-IV<br>48.2 Hz<br>(Inst.) | Total Load Relief<br>by Control<br>Area |
|-----------------------------|---------------------------------|----------------------------------|-----------------------------------|--------------------------------|---|
| BIHAR                       | 98                              | 99                               | 99                                | 101                            | 397                                     |
| JHARKHAND                   | 61                              | 62                               | 61                                | 62                             | 246                                     |
| DVC                         | 134                             | 135.5                            | 136                               | 137                            | 542.5                                   |
| ODISHA                      | 181.5                           | 183.5                            | 184                               | 186                            | 735                                     |
| WEST BENGAL<br>(incl. CESC) | 345.5                           | 350                              | 350                               | 354                            | 1399.5                                  |
| <b>TOTAL</b>                | <b>820</b>                      | <b>830</b>                       | <b>830</b>                        | <b>840</b>                     | <b>3320</b>                             |

As decided in the National Power Committee (NPC) meeting held on 16.07.2013 and subsequently in the 89th OCC meeting of ERPC to implement the scheme w.e.f. 30.09.2013.

A.

**WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN  
APR-2017**

( All figs.in mtrs.)

| Name of the Reservoirs | FRL | MDDL | As on last day of the |            | As on first day of this month & date |          |
|------------------------|-----|------|-----------------------|------------|--------------------------------------|----------|
|                        |     |      | (30-04-17)            | (30-04-16) |                                      |          |
| Hirakud                | 192 | 180  | 186.51                | 185.86     | 188.25                               | 01.04.17 |
| Balimela               | 462 | 439  | 450.62                | 450.19     | 452.93                               | 01.04.17 |
| Rengali                | 123 | 109  | 120.02                | 114.33     | 121.07                               | 01.04.17 |
| Upperkolab             | 858 | 844  | 851.51                | 849.64     | 853.37                               | 01.04.17 |
| Indravati              | 642 | 625  | 632.45                | 631.81     | 635.06                               | 01.04.17 |
| Subernrekha            | 590 | 580  | 587.99                | 585.03     | 589.27                               | 01.04.17 |

B.

**CPP/IPP IMPORT by Eastern Region Constituents during APR-2017**

(All figs. are in MU)

| System       | Tata Power | Cresent Power | JSPL, Angul | Sterlite | Jindal | NALCO | TISCO | Others | Total  |
|--------------|------------|---------------|-------------|----------|--------|-------|-------|--------|--------|
| West Bengal  | 59.62      | 25.07         | 0           | 0        | 0      | 0     | 0     | 90.89  | 175.58 |
| ODISHA       | 0          | 0             | 22.60       | 246.78   | 12.31  | 27.00 | 0     | 403.91 | 712.60 |
| DVC          | 0          | 0             | 0           | 0        | 0      | 0     | 17.26 | 0      | 17.26  |
| <b>TOTAL</b> | 59.62      | 25.07         | 22.60       | 246.78   | 12.31  | 27.00 | 17.26 | 494.80 | 905.43 |

C.

**Distribution of Schedule Supply among Key Customers by IPPs during APR-2017**

(All figs. are in MU)

| IPP          | TPDDL  | WBSIEDCL/<br>WBPDCCL | DVC * | Sale at<br>IEX/NPCL | ODISHA | JSEB  | CTU/Others | Total<br>(Excl. Tr. Loss) |
|--------------|--------|----------------------|-------|---------------------|--------|-------|------------|---------------------------|
| MPL          | 169.46 | 169.44               | 63.10 | 6.28                | 0      | 0     | 177.92     | 586.20                    |
| Sterlite     | 0      | 0                    | 0     | 0                   | 246.78 | 0     | 0.00       | 246.78                    |
| APNRL        | 0      | 54.67                | 0     | 23.31               | 0.00   | 72.23 | 104.49     | 254.70                    |
| GMR          | 0      | 0.00                 | 0     | 0.00                | 0.00   | 0     | 0.00       | 0.00                      |
| <b>Total</b> | 169.46 | 224.11               | 63.10 | 29.59               | 246.78 | 72.23 | 282.41     | 1087.68                   |

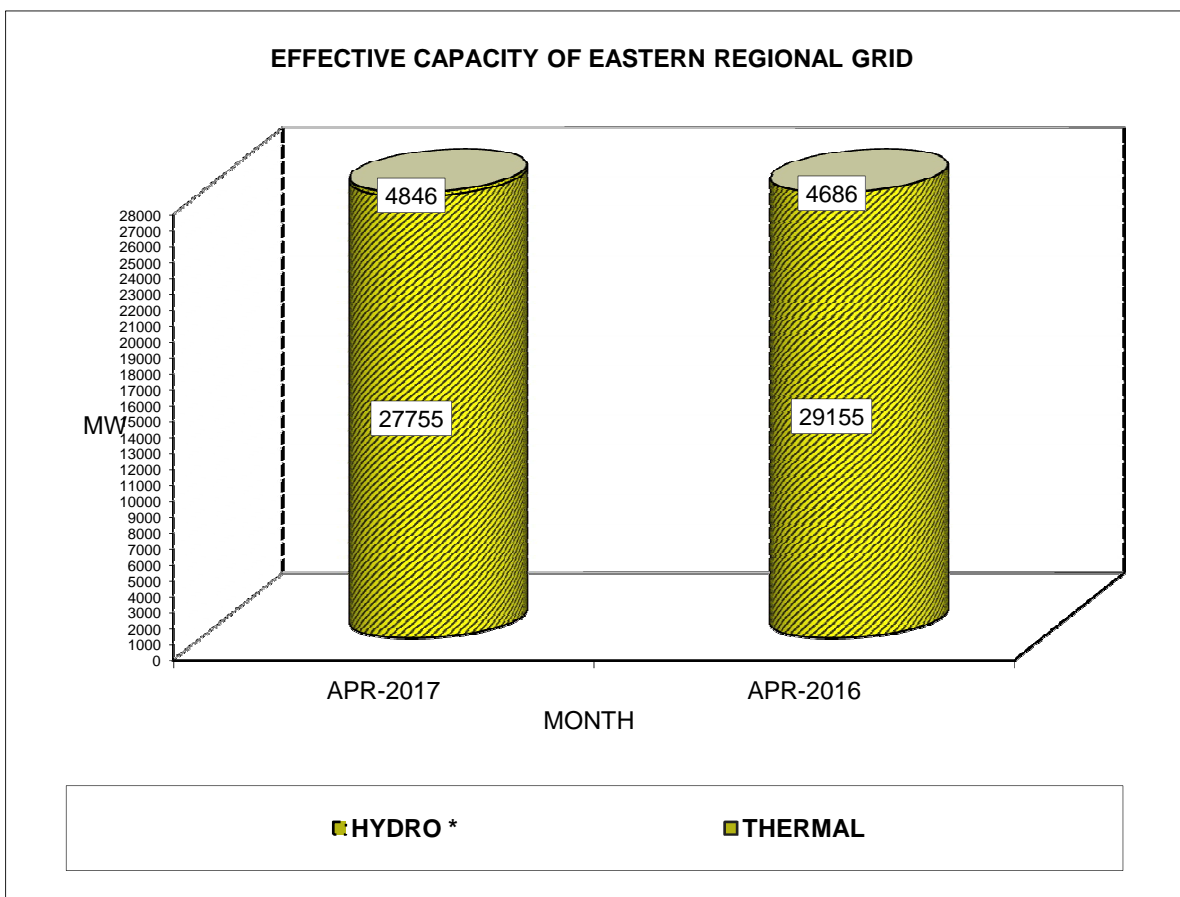
(\*)--During this month, DVC has drawn 63.10 MU of MPL energy which is included in its exchange with Grid.

D.

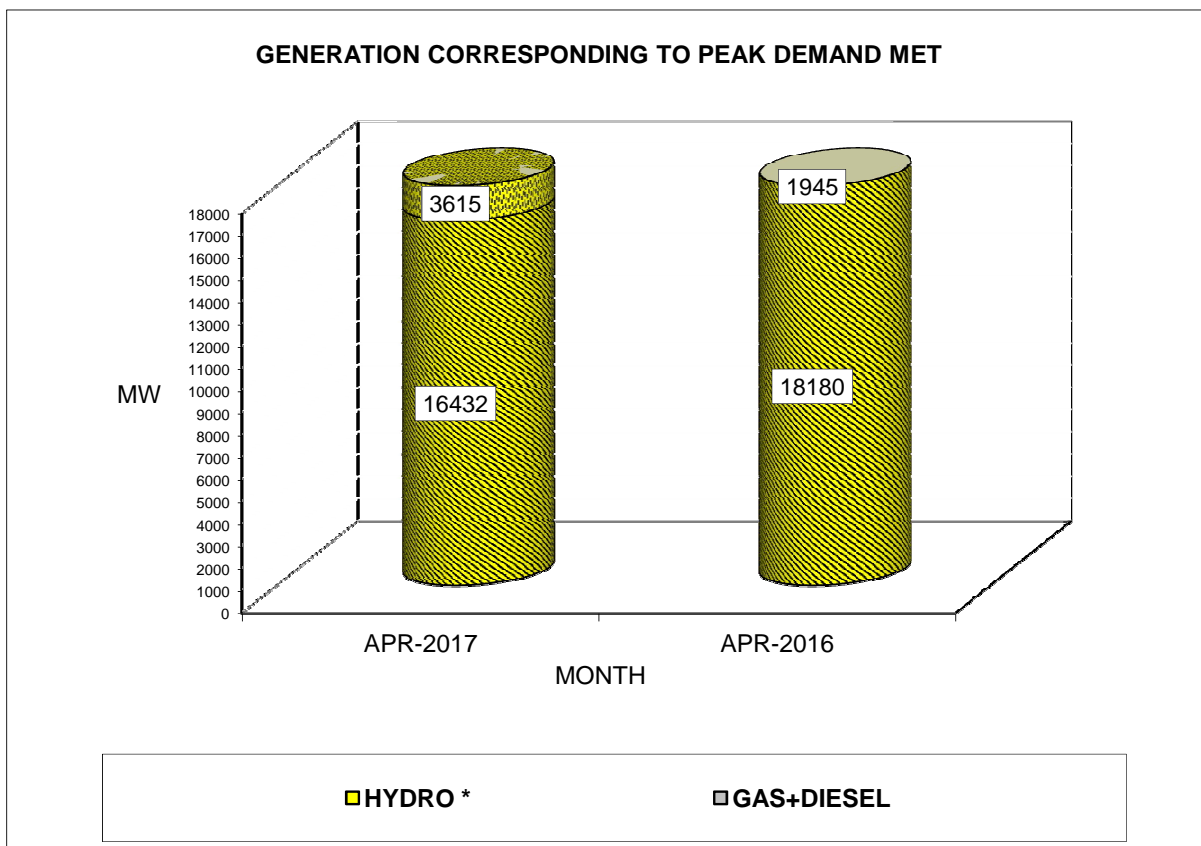
**Monthwise Gross Generation from Chuzachen HEP**

| April'17 | May'17 | June'17 | July'17 | Aug'17 | Sep'17 | Cum. Total (2017-18) |
|----------|--------|---------|---------|--------|--------|----------------------|
| 29.82    | 0.00   | 0.00    | 0.00    | 0.00   | 0.00   |                      |
| Oct'17   | Nov'17 | Dec'17  | Jan'18  | Feb'18 | Mar'18 |                      |
| 0.00     | 0.00   | 0.00    | 0.00    | 0.00   | 0.00   |                      |



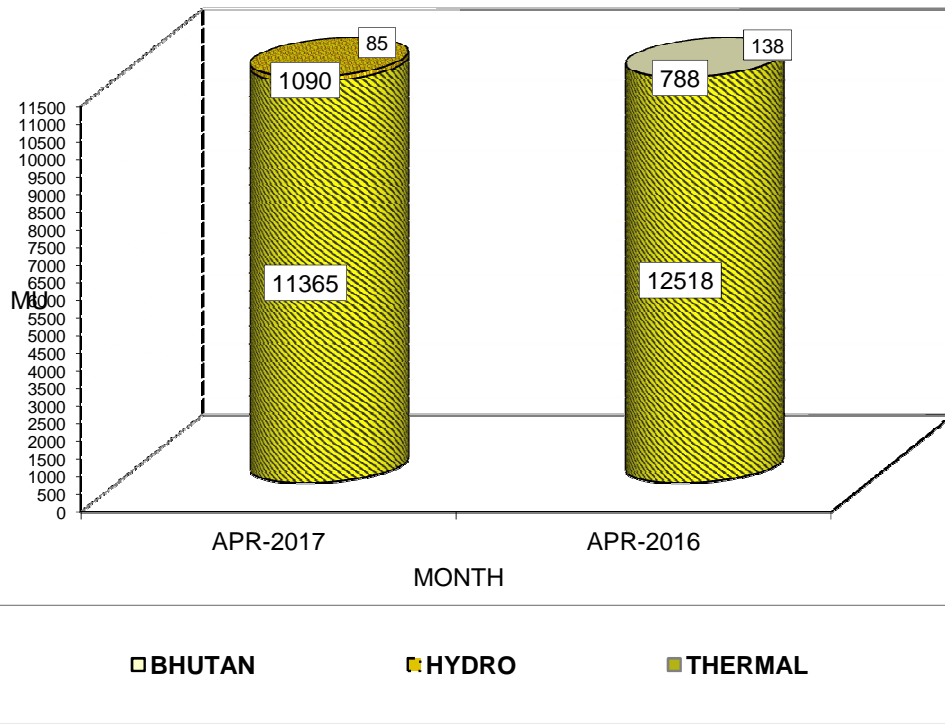


\*Excludes 1350 MW contribution from HEPs of Bhutan

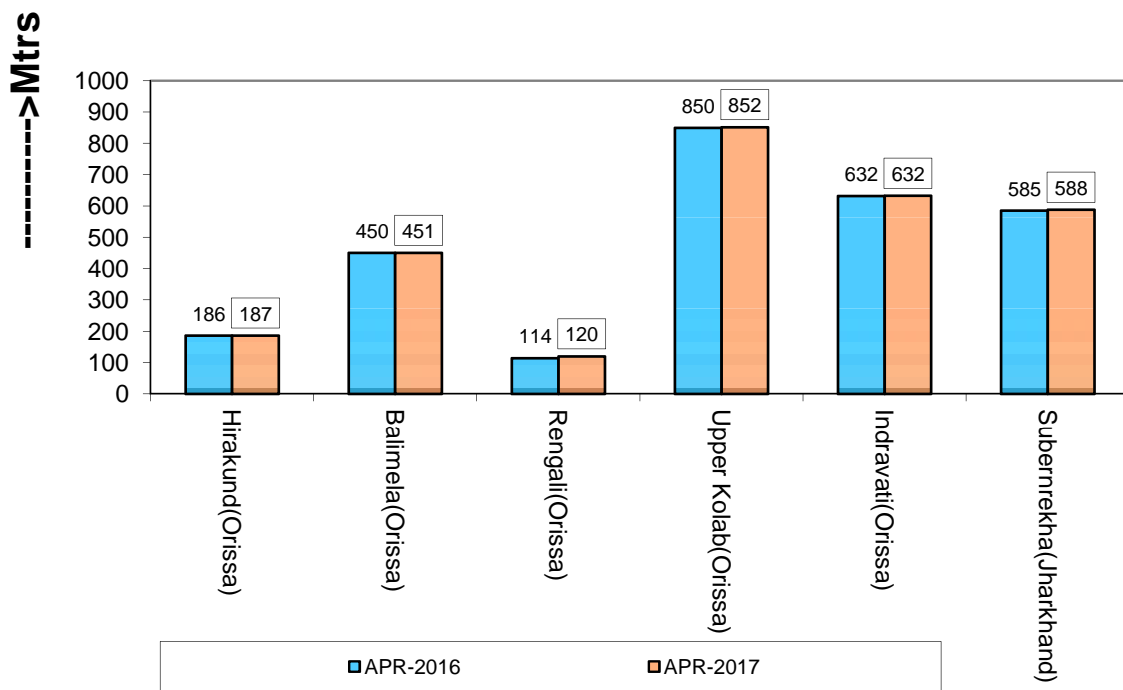


\*Includes contribution from HEP of Bhutan

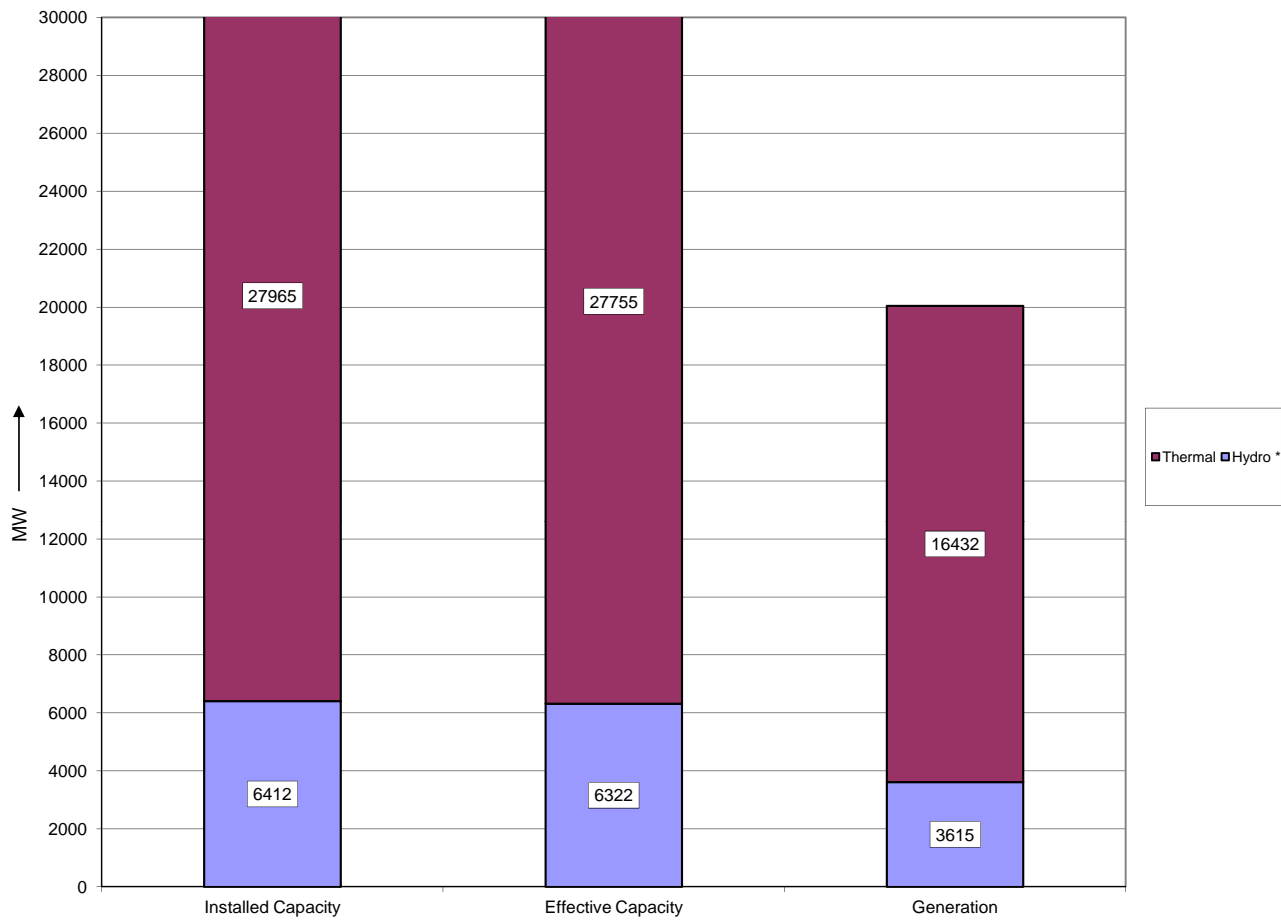
**NET ENERGY GENERATION**



**RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)**

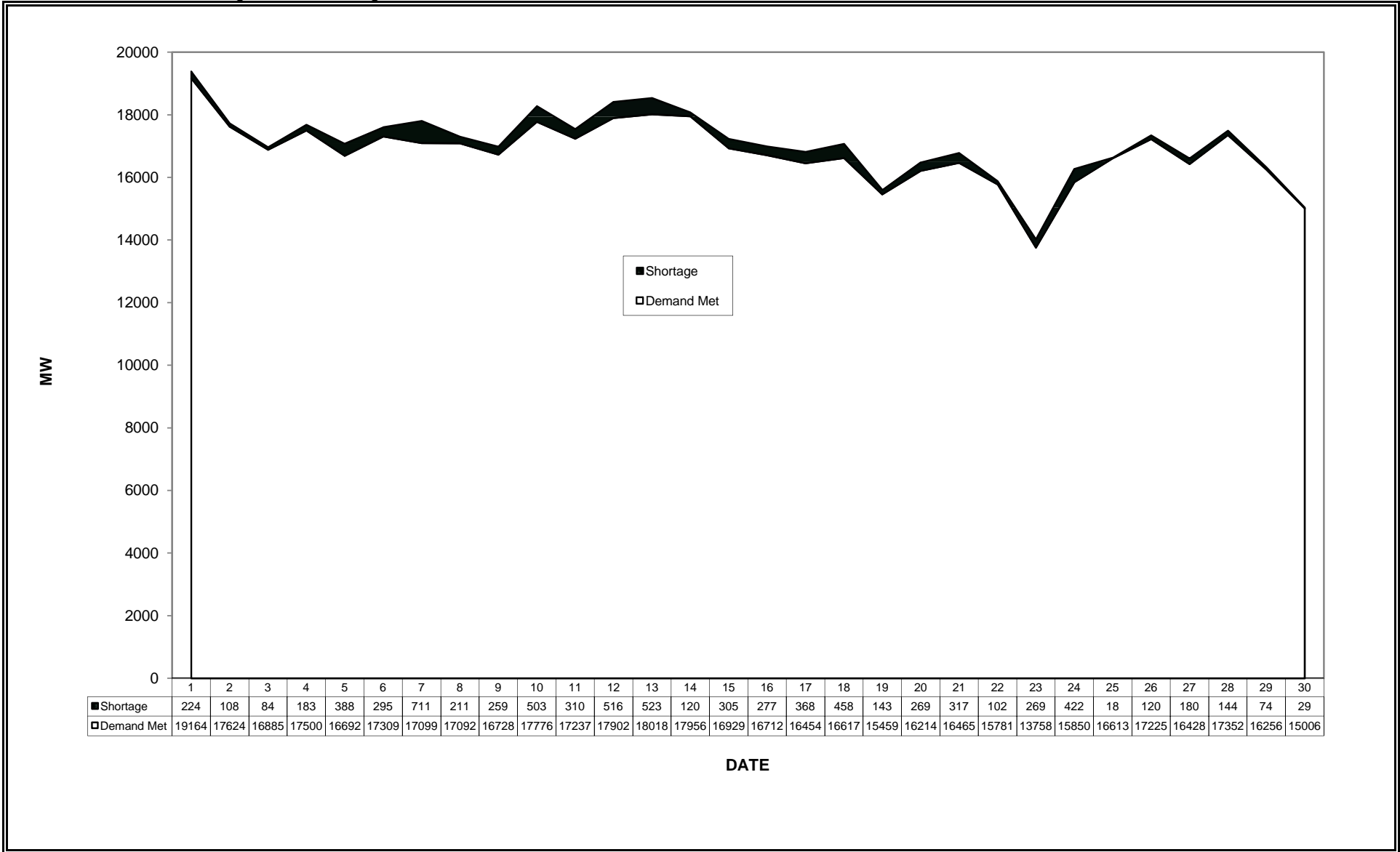


Capacity / Actual Generation Pattern of ER on Peak Day (1-4-2017) at 20.00 hrs.

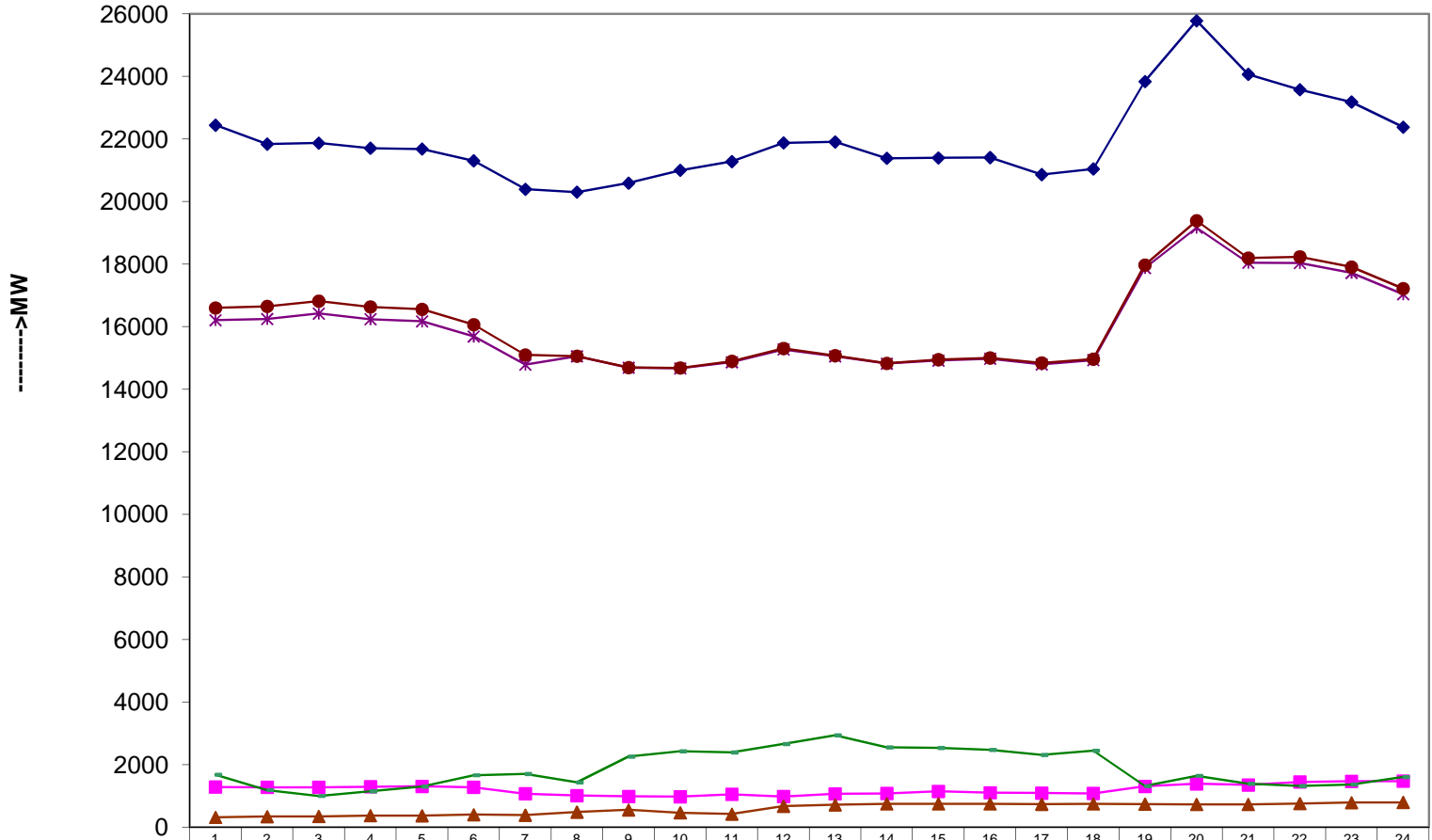


(\*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

Peak Demand Met / Shortage of Eastern Region For The Month Of APR-2017



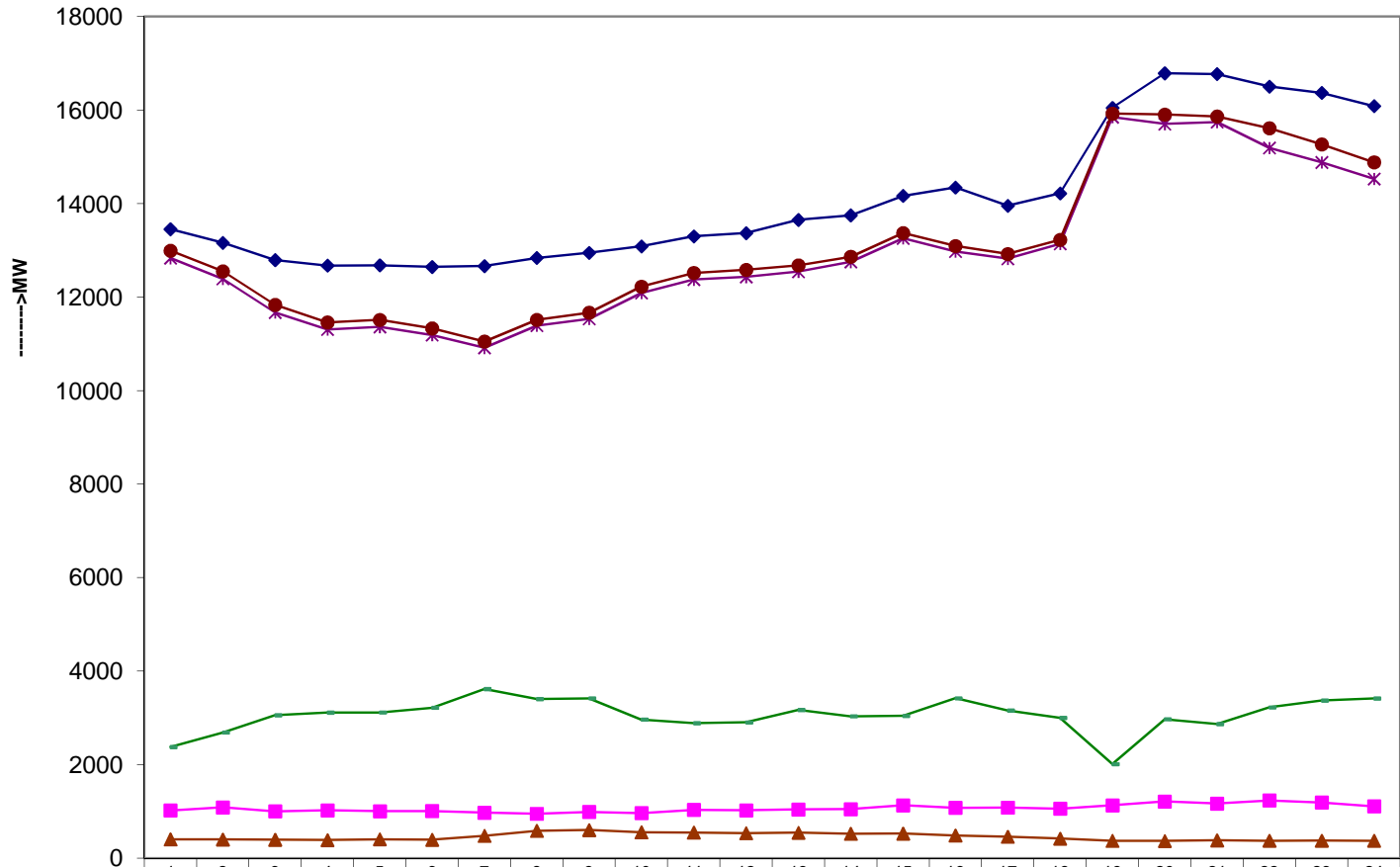
Hourly Load Generation Data OF ER On Regional Peak Day During The Month of APR-2017 (1-4-2017)



|                               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OWN GENERATION                | 22442 | 21837 | 21869 | 21704 | 21678 | 21301 | 20396 | 20301 | 20591 | 21000 | 21278 | 21874 | 21907 | 21381 | 21398 | 21407 | 20862 | 21041 | 23838 | 25780 | 24067 | 23574 | 23180 | 22380 |
| IMPORT FROM CAPTIVE           | 1287  | 1277  | 1277  | 1295  | 1310  | 1278  | 1071  | 1013  | 986   | 979   | 1052  | 980   | 1068  | 1078  | 1149  | 1105  | 1093  | 1081  | 1306  | 1388  | 1352  | 1448  | 1469  | 1475  |
| IMPORT FROM CHPS ,KHPS & TALA | 317   | 340   | 347   | 374   | 366   | 404   | 388   | 486   | 556   | 462   | 421   | 674   | 716   | 750   | 750   | 747   | 734   | 747   | 740   | 731   | 731   | 755   | 788   | 793   |
| EXPORT TO OTHER REGION        | 1680  | 1189  | 1000  | 1148  | 1300  | 1663  | 1705  | 1432  | 2261  | 2430  | 2394  | 2664  | 2938  | 2553  | 2538  | 2471  | 2311  | 2445  | 1316  | 1644  | 1392  | 1319  | 1367  | 1606  |
| DEMAND MET                    | 16208 | 16248 | 16420 | 16240 | 16169 | 15686 | 14786 | 15054 | 14689 | 14669 | 14863 | 15273 | 15051 | 14821 | 14917 | 14978 | 14792 | 14933 | 17873 | 19164 | 18044 | 18037 | 17720 | 17039 |
| REQUIREMENT                   | 16598 | 16649 | 16818 | 16633 | 16555 | 16065 | 15096 | 15059 | 14695 | 14683 | 14896 | 15306 | 15076 | 14829 | 14949 | 15002 | 14841 | 14965 | 17972 | 19387 | 18194 | 18235 | 17907 | 17218 |

----->Hrs.

Hourly Load Generation Data of ER On Regional Lean Day During The Month of APR-2017 (24-4-2017)

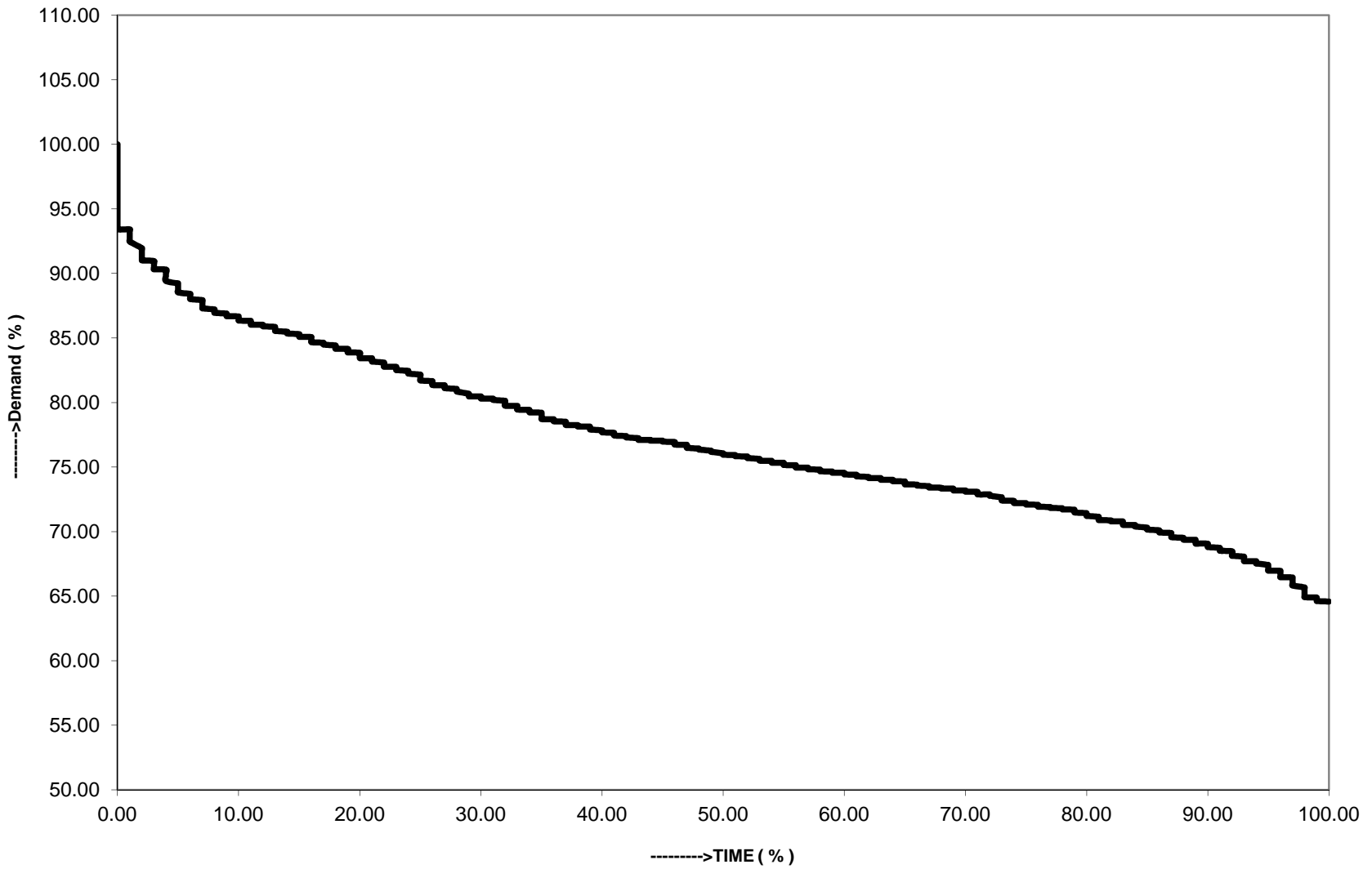


|                                |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ◆ OWN GENERATION               | 13453 | 13161 | 12792 | 12673 | 12682 | 12646 | 12664 | 12839 | 12948 | 13085 | 13301 | 13369 | 13653 | 13749 | 14165 | 14344 | 13955 | 14218 | 16050 | 16788 | 16771 | 16504 | 16368 | 16085 |
| ■ IMPORT FROM CAPTIVE          | 1019  | 1085  | 1002  | 1022  | 1003  | 1007  | 971   | 948   | 987   | 962   | 1033  | 1022  | 1041  | 1047  | 1130  | 1075  | 1081  | 1057  | 1130  | 1211  | 1168  | 1233  | 1188  | 1109  |
| ▲ IMPORT FROM CHPS, KHPS, TALA | 403   | 399   | 394   | 387   | 404   | 393   | 479   | 584   | 600   | 553   | 548   | 535   | 543   | 521   | 526   | 483   | 457   | 417   | 371   | 367   | 381   | 372   | 374   | 372   |
| — EXPORT TO OTHER REGION       | 2377  | 2687  | 3057  | 3113  | 3116  | 3217  | 3618  | 3404  | 3418  | 2964  | 2888  | 2903  | 3170  | 3033  | 3041  | 3419  | 3157  | 2998  | 2010  | 2971  | 2870  | 3224  | 3373  | 3415  |
| * DEMAND MET                   | 12834 | 12391 | 11672 | 11308 | 11362 | 11188 | 10914 | 11390 | 11535 | 12089 | 12375 | 12432 | 12544 | 12753 | 13258 | 12975 | 12821 | 13139 | 15850 | 15703 | 15745 | 15190 | 14881 | 14529 |
| ● REQUIREMENT                  | 12993 | 12552 | 11835 | 11459 | 11512 | 11331 | 11050 | 11514 | 11668 | 12224 | 12519 | 12584 | 12679 | 12864 | 13371 | 13093 | 12922 | 13225 | 15924 | 15905 | 15864 | 15613 | 15267 | 14884 |

----->Hrs.

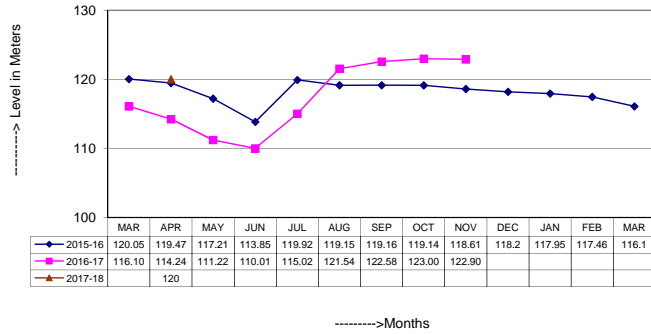
Monthly Load Duration Curve of Eastern Region for APR-2017

Maximum Demand met : 19164 MW  
Minimum Demand met: 10914 MW

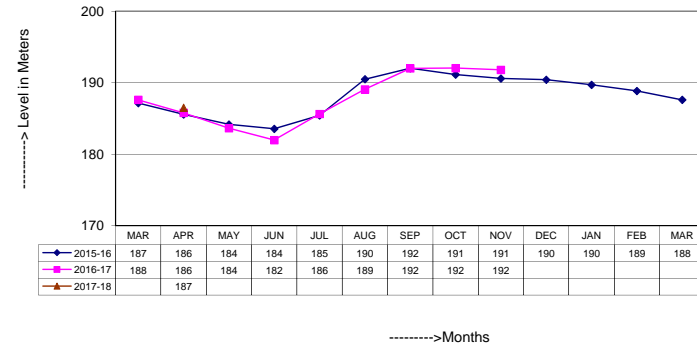


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

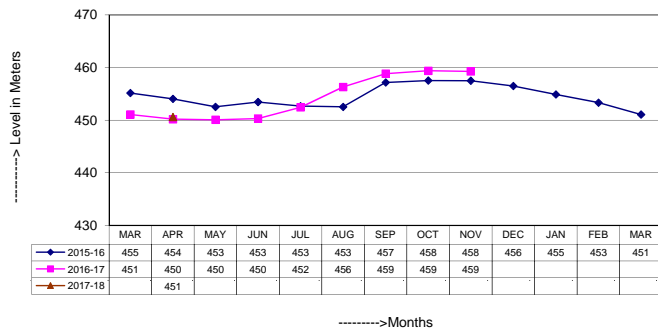
RENGALI RESERVOIR LEVEL



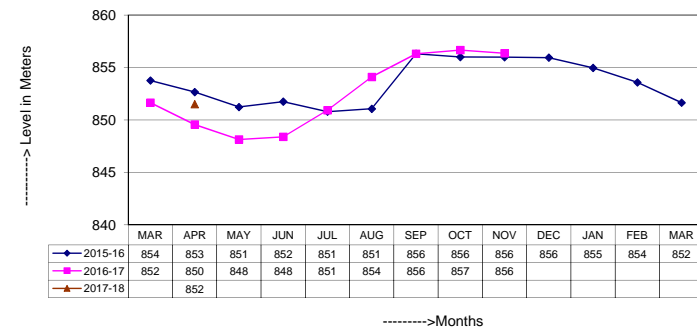
HIRAKUD RESERVOIR LEVEL



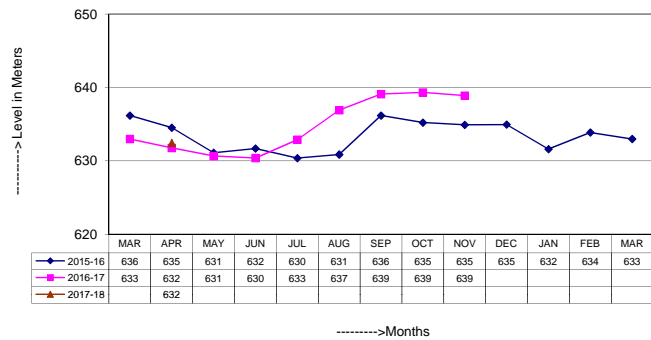
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

