



सत्यमेव जयते

Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीयविद्युतसमिति

**EASTERN REGIONAL POWER COMMITTEE**

मासिक प्रगति रिपोर्ट

**PROGRESS REPORT FOR THE MONTH OF**

नवंबर - 2020

November-2020



14, गोल्फ क्लब रोड, टोलीगंज

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कोलकाता -700033

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## Highlights of Eastern Regional Power System for November-2020

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of Nov, 2020 was **20406 MW** which is 6.21% more than the Nov, 2019 (19212 MW). Individual **Peak Demand (MW)** of all the constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of Nov,2020 was **358.2 MU** excluding export, which is 4.14% more than the corresponding period of last year (344.02 MU).
- The **Average regional PLF of thermal units during the month is 58.85%**, which is marginally less than the corresponding period of the last year (**59.43%**).  
  
DVC (Koderma STPS) registered the highest **PLF** of 98.31%, followed by IPP (GMR) 89.89% and NTPC (TTPS) 88.04% during the month of **Nov, 2020**.
- **Maximum Net generation** was **24695 MW** against total **Effective Capacity of 39691.26 MW** (including import from Bhutan). At the time of Regional peak (**20406 MW** on 02.11.2020 at 19.00 hrs.) the generation was **24665 MW** and import from CPP was 1338 MW, Net export was 5596 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 79.81% of time during the month. **Average frequency** for the month was **50.00 Hz**. The instantaneous maximum and the minimum frequency touched were 50.27 Hz and 49.68 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.18 Hz** and **49.74 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **426 KV** at Jeerat 400 KV S/s whereas the minimum voltage recorded 389 KV at Jeerat 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region was 9512 MW** (including Nepal and Bangladesh) on 5<sup>th</sup> Nov, 2020 at 10:00 hrs. Total net energy export during the month was 3790.69 MU (Inc.Transmission loss) MU which is corresponds to 28.09 % of ex-bus total generation 13496.00 MU of Eastern Region.
- The import from CPPs was 1042.16 MU during the month.
- Export(+)/Import(-) during the month:

| Region/Country                | Max. Export of Power from ER (MW) | Max. Import of Power by ER (MW) | Net Export of Energy inc.Transmission loss(MU) |
|-------------------------------|-----------------------------------|---------------------------------|------------------------------------------------|
| NR                            | 5787                              | 139                             | 2031.23                                        |
| WR                            | 1516                              | 3898                            | -1064.53                                       |
| SR                            | 4015                              | 0                               | 2038.54                                        |
| NER                           | 1191                              | 839                             | 281.35                                         |
| BANGLADESH                    | 928                               |                                 | 482.10                                         |
| NEPAL (via-CTU)               | 184                               |                                 | 21.99                                          |
|                               |                                   |                                 |                                                |
| <b>Total</b>                  | <b>9512</b>                       | <b>3898</b>                     | <b>3790.7</b>                                  |
|                               |                                   |                                 |                                                |
| <b>NEPAL by Bihar(NBPDCL)</b> |                                   |                                 | <b>32.02</b>                                   |

# SALIENT FEATURES

( YEAR TO YEAR COMPARISON )

|     |                                                                               | Nov-20   | NOVEMBER-2019 | CHANGE     | % CHANGE |
|-----|-------------------------------------------------------------------------------|----------|---------------|------------|----------|
| 1)  | Effective Capacity (end of the Month)                                         |          |               |            |          |
|     | THERMAL (MW)                                                                  | 30130    | 29320         | 810        | 2.76     |
|     | HYDRO (MW)                                                                    | 5877     | \$ 5876       | 1          | 0        |
|     | DIESEL (MW)                                                                   | 0        | 0             | 0          | 0        |
|     | RES (MW)                                                                      | 1489     | 1489          | 0          | 0        |
|     | TOTAL (MW)                                                                    | 37495    | 36685         | 810        | 2.21     |
| 2)  | Peak Demand ( MW )                                                            | 20465    | 19291         | 1174       | 6.09     |
| 3)  | Peak Demand Met ( MW )                                                        | 20406    | 19212         | 1194       | 6.21     |
| 4)  | Shortage ( MW )                                                               | 59       | 79            | -20        | -24.87   |
| 5)  | % Shortage                                                                    | 0.29     | 0.41          | -0.12      | -29.26   |
| 6)  | Average Energy Requirement Per Day ( MU )                                     | 358.45   | 344.15        | 14.30      | 4.16     |
| 7)  | Average Energy Availability Per Day ( MU )                                    | 358.25   | 344.02        | 14.23      | 4.14     |
| 8)  | Average Shortage Per Day ( MU )                                               | 0.20     | 0.12          | 0.08       | 64.51    |
| 9)  | % Shortage                                                                    | 0.06     | 0.04          | 0.02       | 37.69    |
| 10) | Net Generation for the Month                                                  |          |               |            |          |
|     | Thermal ( MU )                                                                | 11785.48 | 11632.05      | 153.43     | 1.32     |
|     | Hydro ( MU )                                                                  | 1643.13  | * 1497.40     | 145.73     | 9.73     |
|     | RES (MU)                                                                      | 67.39    | 68.42         | 0.00       | -        |
|     | Total ( MU )                                                                  | 13496.00 | 13197.87      | 298.13     | 2.26     |
| 11) | Generation at the Time of Max. Regional Demand Met ( 02-11-20 at 19.00 Hrs. ) |          |               |            |          |
|     | Thermal ( MW )                                                                | 19748    | 15141         | 4607       | 30.43    |
|     | Hydro ( MW )                                                                  | 4871     | * 5072        | -201       | -3.96    |
|     | RES( MW )                                                                     | 45       | 54            | -9         | -16.20   |
|     | Total ( MW )                                                                  | 24665    | 20267         | 4398       | 21.70    |
| 12) | Inter-Regional Energy Transfer                                                |          |               |            |          |
|     | Export ( MU )                                                                 | 4855.10  | 4131.81       | 723.29     | 17.51    |
|     | Import ( MU )                                                                 | 1064.53  | 675.20        | 389.33     | 57.66    |
|     | Net Exp.(+)/Net Imp.(-) ( MU )                                                | 3790.57  | 3456.61       | 333.96     | 9.66     |
| 13) | Import From Captive(MU)                                                       | 1042.18  | 579.56        | 462.62     | 79.82    |
| 14) | Peak Inter Regional Power Transfer                                            |          |               |            |          |
|     | Max Export ( MW ) on 05-11-20 at 10.00Hrs                                     | 9512     | 8414          | 1098       | 13.05    |
|     | Max Import ( MW ) on 07-11-20 at 22.00Hrs                                     | 3898     | 3103          | 795        | 25.62    |
|     | Max Net Export(+)/Import (-) ( MW )                                           | 8928     | 7952          | 976        | 12.28    |
| 15) | Maximum voltage recorded                                                      | 426      | JEERAT        | 400 kv s/s |          |
| 16) | Minimum voltage recorded                                                      | 389      | JEERAT        | 400 kv s/s |          |

\$ Excludes 2196 MW contribution from HEPs of Bhutan

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

POWER SUPPLY POSITION FOR THE MONTH OF NOVEMBER'2020

**A ) Net Average Energy Per Day**

| System  | Demand Met<br>(MU/Day) | Requirement<br>(MU/Day) | Shortage<br>(MU/Day) | % Shortage |
|---------|------------------------|-------------------------|----------------------|------------|
| BSPHCL  | 75.04                  | 75.16                   | 0.11                 | 0.15       |
| JUVNL   | 26.26                  | 26.69                   | 0.43                 | 1.63       |
| DVC     | 61.78                  | 61.80                   | 0.02                 | 0.03       |
| ODISHA  | 75.23                  | 75.25                   | 0.02                 | 0.03       |
| WBSEDCL | 93.38                  | 93.44                   | 0.06                 | 0.06       |
| CESC    | 24.53                  | 24.54                   | 0.01                 | 0.03       |
| SIKKIM  | 1.57                   | 1.57                    | 0.00                 | 0.03       |
| REGION  | 358.25                 | 358.45                  | 0.20                 | 0.06       |

**B) Peak Demand in MW:**

| System  | Demand Met<br>(MW) | Requirement<br>(MW) | Shortage<br>(MW) | % Shortage |
|---------|--------------------|---------------------|------------------|------------|
| BSPHCL  | 4590               | 4590                | 0                | 0.00       |
| JUVNL   | 1422               | 1454                | 32               | 2.22       |
| DVC     | 2884               | 2884                | 0                | 0.00       |
| ODISHA  | 4609               | 4609                | 0                | 0.00       |
| WBSEDCL | 5788               | 5788                | 0                | 0.00       |
| CESC    | 1628               | 1632                | 4                | 0.2        |
| SIKKIM  | 110                | 110                 | 0                | 0.00       |
| REGION  | 20406              | 20465               | 59               | 0.29       |

➤ **DIVERSITY FACTOR**                      **1.03**

➤ **Regional Peak Demand Met on 2-11-2020 at 19.00 hrs. at 49.99 Hz.**

# **CONSTITUENT-WISE PERFORMANCE DATA NOVEMBER-2020**

| SYSTEM                                   | Gross Generation(MU) |          |                |          | Auxiliary power Consumption(MU) |         |       |        | Net Generation (MU) |          |       |          | Import from  | Exchange                       | Energy          | Per Day   | Net Peak | Gross Peak |
|------------------------------------------|----------------------|----------|----------------|----------|---------------------------------|---------|-------|--------|---------------------|----------|-------|----------|--------------|--------------------------------|-----------------|-----------|----------|------------|
|                                          | HYDRO                | Thermal  | RES (Hy+Solar) | Total    | HYDRO                           | Thermal | Solar | Total  | HYDRO               | Thermal  | Solar | Total    | Captive (MU) | Net Import(+)<br>Net Export(-) | Consumption(MU) | Cons.(MU) | Demand   | Demand     |
| BSPHCL                                   | 0.00                 | 1.10     | 19.47          | 20.57    | 0.00                            | 3.52    | 0.00  | 3.52   | 0.00                | -2.42    | 19.47 | 17.05    | 0.00         | 2234.33                        | 2251.38         | 75.0      | 4590     | 4590       |
| JUVNL                                    | 0.00                 | 196.73   | 0.00           | 196.73   | 0.00                            | 23.91   | 0.00  | 23.91  | 0.00                | 172.82   | 0.00  | 172.82   | 50.80        | 564.16                         | 787.77          | 26.3      | 1422     | 1455       |
| DVC                                      | 7.70                 | 3381.14  | 0.00           | 3388.84  | 0.06                            | 234.43  | 0.00  | 234.50 | 7.63                | 3146.71  | 0.00  | 3154.34  | 15.38        | -1316.17                       | 1853.55         | 61.8      | 2884     | 3271       |
| ODISHA(OPGC+OHPC+TTPS)                   | 470.56               | 828.28   | 43.82          | 1342.65  | 4.00                            | 84.14   | 0.00  | 88.14  | 466.56              | 744.14   | 43.82 | 1254.51  | 772.15       | 230.03                         | 2256.70         | 75.2      | 4609     | 4729       |
| WBPDC+WBSEDCL+DPL                        | 125.83               | 1728.48  | 1.95           | 1856.26  | 0.00                            | 168.27  | 0.00  | 168.27 | 125.83              | 1560.21  | 1.95  | 1687.98  | 203.83       | 909.64                         | 2801.45         | 93.38     | 5788     | 6092       |
| CESC                                     | 0.00                 | 378.21   | 0.00           | 378.21   | 0.00                            | 30.52   | 0.00  | 30.52  | 0.00                | 347.69   | 0.00  | 347.69   | 0.00         | 388.21                         | 735.90          | 24.5      | 1628     | 1689       |
| HEL                                      | 0.00                 | 357.96   | 0.00           | 357.96   | 0.00                            | 26.21   | 0.00  | 26.21  | 0.00                | 331.75   | 0.00  | 331.75   | 0.00         | -331.75                        |                 |           |          |            |
| SIKKIM                                   | 0.00                 | 0.00     | 1.00           | 1.00     | 0.00                            | 0.00    | 0.00  | 0.00   | 0.00                | 0.00     | 1.00  | 1.00     | 0.00         | 46.04                          | 47.04           | 1.6       | 110      | 110        |
| NTPC                                     | 0.00                 | 4247.08  | 1.15           | 4248.23  | 0.00                            | 316.73  | 0.00  | 316.73 | 0.00                | 3930.35  | 1.15  | 3931.50  | 0.00         | -3931.50                       |                 |           |          |            |
| MPL                                      | 0.00                 | 601.20   | 0.00           | 601.20   | 0.00                            | 36.09   | 0.00  | 36.09  | 0.00                | 565.11   | 0.00  | 565.11   | 0.00         | -565.11                        |                 |           |          |            |
| APNRL                                    | 0.00                 | 183.07   | 0.00           | 183.07   | 0.00                            | 7.38    | 0.00  | 7.38   | 0.00                | 175.69   | 0.00  | 175.69   | 0.00         | -175.69                        |                 |           |          |            |
| GMR                                      | 0.00                 | 453.02   | 0.00           | 453.02   | 0.00                            | 27.40   | 0.00  | 27.40  | 0.00                | 425.62   | 0.00  | 425.62   | 0.00         | -425.62                        |                 |           |          |            |
| JITPL                                    | 0.00                 | 410.69   | 0.00           | 410.69   | 0.00                            | 24.38   | 0.00  | 24.38  | 0.00                | 386.31   | 0.00  | 386.31   | 0.00         | -386.31                        |                 |           |          |            |
| NHPC (Inc TLDP= 64.58 MU)                | 245.17               | 0.00     | 0.00           | 245.17   | 0.00                            | 0.00    | 0.00  | 0.00   | 245.17              | 0.00     | 0.00  | 245.17   | 0.00         | -245.17                        |                 |           |          |            |
| CHUZACHEN HPS                            | 18.22                | 0.00     | 0.00           | 18.22    | 0.00                            | 0.00    | 0.00  | 0.00   | 18.22               | 0.00     | 0.00  | 18.22    | 0.00         | -18.22                         |                 |           |          |            |
| DIKCHU HPS                               | 15.79                | 0.00     | 0.00           | 15.79    | 0.00                            | 0.00    | 0.00  | 0.00   | 15.79               | 0.00     | 0.00  | 15.79    | 0.00         | -15.79                         |                 |           |          |            |
| JORHANG HPS                              | 23.16                | 0.00     | 0.00           | 23.16    | 0.00                            | 0.00    | 0.00  | 0.00   | 23.16               | 0.00     | 0.00  | 23.16    | 0.00         | -23.16                         |                 |           |          |            |
| TASHIDING HPS                            | 2.79                 | 0.00     | 0.00           | 2.79     | 0.00                            | 0.00    | 0.00  | 0.00   | 2.79                | 0.00     | 0.00  | 2.79     | 0.00         | -2.79                          |                 |           |          |            |
| TEESTA-III HPS                           | 295.84               | 0.00     | 0.00           | 295.84   | 0.00                            | 0.00    | 0.00  | 0.00   | 295.84              | 0.00     | 0.00  | 295.84   | 0.00         | -295.84                        |                 |           |          |            |
| CHPC(Birpara Receipt)                    | 116.90               | 0.00     | 0.00           | 116.90   | 0.00                            | 0.00    | 0.00  | 0.00   | 116.90              | 0.00     | 0.00  | 116.90   | 0.00         | -116.90                        |                 |           |          |            |
| KHPS                                     | 18.94                | 0.00     | 0.00           | 18.94    | 0.00                            | 0.00    | 0.00  | 0.00   | 18.94               | 0.00     | 0.00  | 18.94    | 0.00         | -18.94                         |                 |           |          |            |
| THPS                                     | 134.46               | 0.00     | 0.00           | 134.46   | 0.00                            | 0.00    | 0.00  | 0.00   | 134.46              | 0.00     | 0.00  | 134.46   | 0.00         | -134.46                        |                 |           |          |            |
| DAGACHU HPS                              | 30.32                | 0.00     | 0.00           | 30.32    | 0.00                            | 0.00    | 0.00  | 0.00   | 30.32               | 0.00     | 0.00  | 30.32    | 0.00         | -30.32                         |                 |           |          |            |
| Mangdechhu HEP                           | 142.38               | 0.00     | 0.00           | 142.38   | 0.00                            | 0.00    | 0.00  | 0.00   | 142.38              | 0.00     | 0.00  | 142.38   | 0.00         | -142.38                        |                 |           |          |            |
| Total Drawal by HVDC Sahsaram,Alipurduar |                      |          |                |          |                                 |         |       |        |                     |          |       |          |              | 13.52                          | 13.52           |           |          |            |
| Total                                    | 1648.05              | 12766.95 | 67.39          | 14482.40 | 4.07                            | 982.98  | 0.00  | 987.04 | 1643.99             | 11783.98 | 67.39 | 13495.36 | 1042.16      | -3790.20                       | 10747.32        | 358.24    | 20406    | 21673      |

3A

13495.36

3790.70

10747.32

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

**A) Net Average Energy**

| Month     | 2019-20    |             |          |          |            | 2020-21    |             |          |          |            |
|-----------|------------|-------------|----------|----------|------------|------------|-------------|----------|----------|------------|
|           | 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     | 428.71     | 429.56      | 0.85     | 0.20     | 50.00      | 323.3      | 324.2       | 0.93     | 0.29     | 50.00      |
| MAY       | 451.15     | 452.79      | 1.64     | 0.36     | 49.99      | 357.93     | 360.37      | 2.45     | 0.68     | 50.00      |
| JUNE      | 461.72     | 462.87      | 1.15     | 0.25     | 49.99      | 425.23     | 425.91      | 0.69     | 0.16     | 50.00      |
| JULY      | 450.73     | 451.52      | 0.79     | 0.17     | 50.00      | 447.56     | 448.25      | 0.70     | 0.16     | 49.99      |
| AUGUST    | 460.87     | 462.13      | 1.26     | 0.27     | 49.99      | 447.7      | 449.62      | 1.93     | 0.43     | 49.99      |
| SEPTEMBER | 445.43     | 446.55      | 1.12     | 0.25     | 50.00      | 465.31     | 465.52      | 0.20     | 0.04     | 49.99      |
| OCTOBER   | 391.21     | 391.95      | 0.12     | 0.03     | 50.00      | 448.87     | 448.96      | 0.09     | 0.02     | 50.00      |
| NOVEMBER  | 344.02     | 344.15      | 0.12     | 0.04     | 50.00      | 358.25     | 358.45      | 0.20     | 0.06     | 49.99      |
| DECEMBER  | 338.90     | 339.25      | 0.35     | 0.10     | 49.99      | -          | -           | -        | -        | -          |
| JANUARY   | 349.04     | 349.39      | 0.34     | 0.10     | 49.99      | -          | -           | -        | -        | -          |
| FEBRUARY  | 358.72     | 359.75      | 1.03     | 0.29     | 49.99      | -          | -           | -        | -        | -          |
| MARCH     | 338.29     | 338.62      | 0.33     | 0.10     | 50.00      | -          | -           | -        | -        | -          |

**B) Peak in MW:**

| Month     | 2019-20    |             |          |          |            | 2020-21    |             |          |          |            |
|-----------|------------|-------------|----------|----------|------------|------------|-------------|----------|----------|------------|
|           | Demand Met | Requirement | Shortage | Shortage | Avg. Freq. | Demand Met | Requirement | Shortage | Shortage | Avg. Freq. |
|           | (MW)       | (MW)        | (MW)     | (%)      | (HZ)       | (MW)       | (MW)        | (MW)     | (%)      | (HZ)       |
| APRIL     | 22378      | 22415       | 37       | 0.17     | 50.00      | 18093      | 18302       | 209      | 1.14     | 50.00      |
| MAY       | 22781      | 22830       | 49       | 0.22     | 49.99      | 20166      | 20306       | 140      | 0.69     | 50.00      |
| JUNE      | 22808      | 22867       | 59       | 0.26     | 49.99      | 21832      | 21989       | 156      | 0.71     | 50.00      |
| JULY      | 23154      | 23246       | 92       | 0.40     | 50.00      | 22643      | 22735       | 92       | 0.40     | 49.99      |
| AUGUST    | 23398      | 23421       | 22       | 0.10     | 49.99      | 22192      | 22399       | 207      | 0.92     | 49.99      |
| SEPTEMBER | 23126      | 23276       | 150      | 0.64     | 50.00      | 23563      | 23619       | 56       | 0.24     | 49.99      |
| OCTOBER   | 21706      | 21726       | 20       | 0.09     | 50.00      | 23374      | 23374       | 0.00     | 0.00     | 50.00      |
| NOVEMBER  | 19212      | 19291       | 79       | 0.41     | 50.00      | 20406      | 20465       | 59       | 0.29     | 49.99      |
| DECEMBER  | 18068      | 18068       | 0        | 0.00     | 49.99      | -          | -           | -        | -        | -          |
| JANUARY   | 18714      | 18758       | 44       | 0.24     | 49.99      | -          | -           | -        | -        | -          |
| FEBRUARY  | 18962      | 18968       | 7        | 0.03     | 49.99      | -          | -           | -        | -        | -          |
| MARCH     | 18670      | 18767       | 98       | 0.52     | 50.00      | -          | -           | -        | -        | -          |

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF NOVEMBER -2020

| ORGANI-<br>SATION                                                                                           | TYPE    | POWER<br>STATION         | INSTALLED<br>CAPACITY<br><br>( in MW ) | EFFECTIVE<br>CAPACITY<br><br>( in MW ) | Gross<br>Energy<br>Generation<br><br>in MU | Net<br>Energy<br>Generation<br><br>in MU | Cummulative Gross<br>Energy Generation<br>upto Current Month<br>( 2020-21) in MU | Cummulative Net<br>Energy Generation<br>upto Current Month<br>( 2020-21) in MU |
|-------------------------------------------------------------------------------------------------------------|---------|--------------------------|----------------------------------------|----------------------------------------|--------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| BIHAR                                                                                                       | NTPC    | Barauni (U# 6,7 )        | 220.00                                 | 210.00                                 | 1.10                                       | -0.26                                    | 24.82                                                                            | 10.48                                                                          |
|                                                                                                             |         | Thermal                  | Barauni (U# 8)                         | 250.00                                 | 250.00                                     | 0.00                                     | -1.62                                                                            | 850.60                                                                         |
|                                                                                                             | RES     | Muzaffarpur Stg-I        | 220.00                                 | 220.00                                 | 0.00                                       | -0.54                                    | 38.58                                                                            | 23.48                                                                          |
|                                                                                                             |         | Thermal Total            | 690.00                                 | 680.00                                 | 1.10                                       | -2.42                                    | 914.00                                                                           | 782.06                                                                         |
|                                                                                                             |         |                          | 341.25                                 | 341.25                                 | 19.47                                      | 19.47                                    | 166.45                                                                           | 166.45                                                                         |
|                                                                                                             |         | Total BIHAR              | 1031.25                                | 1021.25                                | 20.57                                      | 17.05                                    | 1080.45                                                                          | 948.51                                                                         |
| JHARKHAND                                                                                                   |         |                          |                                        |                                        |                                            |                                          |                                                                                  |                                                                                |
| TVNL                                                                                                        | Thermal | TVNL                     | 420.00                                 | 420.00                                 | 196.73                                     | 172.82                                   | 1524.42                                                                          | 1332.62                                                                        |
| JSEB                                                                                                        | Hydro   | Subarnrekha (U#1,2)      | 130.00                                 | 130.00                                 | 0.00                                       | 0.00                                     | 50.03                                                                            | 50.03                                                                          |
|                                                                                                             | RES     |                          | 46.75                                  | 46.75                                  | 0.00                                       | 0.00                                     | 0.00                                                                             | 0.00                                                                           |
|                                                                                                             |         | Total                    | 176.75                                 | 176.75                                 | 0.00                                       | 0.00                                     | 50.03                                                                            | 50.03                                                                          |
| DVC                                                                                                         | Thermal | Bokaro-B(3)              | 210.00                                 | 210.00                                 | 0.00                                       | -0.34                                    | 18.59                                                                            | 12.30                                                                          |
|                                                                                                             |         | Chandrapura( U7 # 8)     | 500.00                                 | 500.00                                 | 310.54                                     | 281.16                                   | 2264.69                                                                          | 2045.36                                                                        |
|                                                                                                             |         | Durgapur(4)              | 210.00                                 | 210.00                                 | 45.99                                      | 39.98                                    | 61.07                                                                            | 48.49                                                                          |
|                                                                                                             |         | Mezia(1,2,3,4,5,6)       | 1340.00                                | 1340.00                                | 700.32                                     | 628.02                                   | 4053.88                                                                          | 3630.90                                                                        |
|                                                                                                             |         | Mezia( U # 7,8)          | 1000.00                                | 1000.00                                | 485.88                                     | 460.54                                   | 3742.78                                                                          | 3535.72                                                                        |
|                                                                                                             |         | Bokaro-A(1)              | 500.00                                 | 500.00                                 | 292.23                                     | 277.13                                   | 2119.27                                                                          | 2000.75                                                                        |
|                                                                                                             |         | Durgapur STPS (U#1,2)    | 1000.00                                | 1000.00                                | 405.80                                     | 380.99                                   | 3627.07                                                                          | 3402.42                                                                        |
|                                                                                                             |         | Raghunathpur TPS (U#1,2) | 1200.00                                | 1200.00                                | 432.52                                     | 405.75                                   | 3050.15                                                                          | 2852.05                                                                        |
|                                                                                                             |         | Koderma STPS (U#1,2)     | 1000.00                                | 1000.00                                | 707.86                                     | 673.49                                   | 4816.81                                                                          | 4558.11                                                                        |
|                                                                                                             |         | Total Thermal            | 6960.00                                | 6960.00                                | 3381.14                                    | 3146.71                                  | 23754.31                                                                         | 22083.74                                                                       |
|                                                                                                             | Hydro   | Maithon (U#1,2,3)        | 63.20                                  | 63.20                                  | 3.35                                       | 3.33                                     | 166.23                                                                           | 165.94                                                                         |
|                                                                                                             |         | Panchet (U#1,2)          | 80.00                                  | 80.00                                  | 1.87                                       | 1.84                                     | 152.98                                                                           | 152.29                                                                         |
|                                                                                                             |         | Tilaya (U#1,2)           | 4.00                                   | 4.00                                   | 2.47                                       | 2.5                                      | 5.98                                                                             | 5.9                                                                            |
|                                                                                                             |         | Hydro Total              | 147.20                                 | 147.20                                 | 7.70                                       | 7.63                                     | 325.19                                                                           | 324.13                                                                         |
|                                                                                                             |         |                          | Total DVC                              | 7107.20                                | 7107.20                                    | 3388.84                                  | 3154.34                                                                          | 24079.50                                                                       |
| WEST BENGAL                                                                                                 |         |                          |                                        |                                        |                                            |                                          |                                                                                  |                                                                                |
| WBPDCCL                                                                                                     | Thermal | Bandel TPS               | 380.00                                 | 335.00                                 | 108.12                                     | 97.57                                    | 714.38                                                                           | 639.19                                                                         |
|                                                                                                             |         | Santalidih TPS(U#5&6)    | 500.00                                 | 500.00                                 | 308.67                                     | 283.17                                   | 2035.16                                                                          | 1857.48                                                                        |
|                                                                                                             |         | Kolaghat TPS             | 1260.00                                | 1260.00                                | 115.37                                     | 99.80                                    | 954.28                                                                           | 815.20                                                                         |
|                                                                                                             |         | Bakreswar TPP            | 1050.00                                | 1050.00                                | 605.30                                     | 551.86                                   | 4902.39                                                                          | 4462.78                                                                        |
|                                                                                                             |         | Sagardighi TPP           | 1600.00                                | 1600.00                                | 438.05                                     | 391.75                                   | 5638.49                                                                          | 5218.30                                                                        |
|                                                                                                             |         | DPPS (300+250 *)         | 550.00                                 | 550.00                                 | 152.97                                     | 136.06                                   | 1613.41                                                                          | 1444.19                                                                        |
|                                                                                                             |         | Thermal Total            | 5340.00                                | 5295.00                                | 1728.48                                    | 1560.21                                  | 15858.10                                                                         | 14437.13                                                                       |
| WBSEDCL                                                                                                     | Hydro   | Jaldhaka (3x9+2x4)       | 35.00                                  | 35.00                                  | 21.28                                      | 21.28                                    | 165.60                                                                           | 165.60                                                                         |
|                                                                                                             |         | Ramam (4x12.73)          | 51.00                                  | 51.00                                  | 18.41                                      | 18.41                                    | 217.44                                                                           | 217.44                                                                         |
|                                                                                                             |         | Teesta C.F. (3x3x7.5)    | 67.50                                  | 67.50                                  | 5.08                                       | 5.08                                     | 31.08                                                                            | 31.08                                                                          |
|                                                                                                             |         | Purulia PSS (4x225)      | 900.00                                 | 900.00                                 | 81.07                                      | 81.07                                    | 788.88                                                                           | 788.88                                                                         |
|                                                                                                             |         | Total Hydro              | 1053.50                                | 1053.50                                | 125.83                                     | 125.83                                   | 1203.00                                                                          | 1203.00                                                                        |
|                                                                                                             |         | RES                      | 527.29                                 | 527.29                                 | 1.95                                       | 1.95                                     | 71.89                                                                            | 71.89                                                                          |
| <div>➤ Chandrapura #1 is retired on 17.01.17</div> <div>➤ Patratu # 1,2,3,5,8 are retired on 21.12.16</div> |         |                          |                                        |                                        |                                            |                                          |                                                                                  |                                                                                |



PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF NOVEMBER -2020

| ORGANI-<br>SATION | TYPE    | POWER<br>STATION           | INSTALLED<br>CAPACITY<br><br>( in MW ) | EFFECTIVE<br>CAPACITY<br><br>( in MW ) | Gross<br>Energy<br>Generation<br><br>in MU | Net<br>Energy<br>Generation<br><br>in MU | Cummulative Gross<br>Energy Generation<br>upto Current Month<br><br>( 2019-20) in MU | Cummulative Net<br>Energy Generation<br>upto Current Month<br><br>( 2019-20) in MU |
|-------------------|---------|----------------------------|----------------------------------------|----------------------------------------|--------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| CESEC             | Thermal | Titagarh (4x60)            | 240.00                                 | 240.00                                 | 0.00                                       | 0.00                                     | 0.00                                                                                 | 0.00                                                                               |
|                   |         | Southern (2x67.5)          | 135.00                                 | 135.00                                 | 7.36                                       | 6.62                                     | 30.05                                                                                | 27.10                                                                              |
|                   |         | Budge-Budge (3x250)        | 750.00                                 | 750.00                                 | 370.85                                     | 341.08                                   | 3742.68                                                                              | 3451.81                                                                            |
|                   |         | Total CESC                 | 1125.00                                | 1125.00                                | 378.21                                     | 347.69                                   | 3772.73                                                                              | 3478.91                                                                            |
| HEL               | Thermal | HEL                        | 600.00                                 | 600.00                                 | 357.96                                     | 331.75                                   | 2961.55                                                                              | 2734.07                                                                            |
|                   |         | Total West Bengal          | 8645.79                                | 8600.79                                | 2592.43                                    | 2367.43                                  | 23867.28                                                                             | 21925.01                                                                           |
| ODISHA            | Thermal | Talcher-I                  | 250.00                                 | 240.00                                 | 158.16                                     | 140.16                                   | 1215.57                                                                              | 1078.32                                                                            |
| (NTPC)            |         | Talcher-II                 | 220.00                                 | 220.00                                 | 133.43                                     | 118.24                                   | 1157.67                                                                              | 1026.57                                                                            |
|                   |         | Total Thermal              | 470.00                                 | 460.00                                 | 291.59                                     | 258.40                                   | 2373.24                                                                              | 2104.89                                                                            |
| OPGC              | Thermal | IB TPS                     | 420.00                                 | 420.00                                 | 242.31                                     | 214.91                                   | 1784.16                                                                              | 1574.43                                                                            |
|                   |         | IB TPS U#3(660 MW)         | 660.00                                 | 660.00                                 | 16.42                                      | 15.17                                    | 1325.41                                                                              | 1236.79                                                                            |
|                   |         | IB TPS U#4(660 MW)         | 660.00                                 | 660.00                                 | 277.95                                     | 256.65                                   | 2242.81                                                                              | 2080.18                                                                            |
| OHPC              | Hydro   | Hirakud-I (Burla)          | 275.50                                 | 275.50                                 | 51.24                                      | 51.03                                    | 508.30                                                                               | 506.38                                                                             |
|                   |         | Hirakud-II (Chiplima)      | 72.00                                  | 72.00                                  | 27.03                                      | 26.07                                    | 252.43                                                                               | 249.86                                                                             |
|                   |         | Balimela (6x60+2x75)       | 510.00                                 | 510.00                                 | 141.67                                     | 141.11                                   | 1281.39                                                                              | 1277.18                                                                            |
|                   |         | Rengali (5x50)             | 250.00                                 | 250.00                                 | 64.15                                      | 63.16                                    | 901.64                                                                               | 899.00                                                                             |
|                   |         | Upper Kolab (4x80)         | 320.00                                 | 320.00                                 | 52.81                                      | 52.69                                    | 605.30                                                                               | 603.66                                                                             |
|                   |         | Indravati HPS (4x150)      | 600.00                                 | 600.00                                 | 107.74                                     | 105.73                                   | 1365.94                                                                              | 1335.64                                                                            |
|                   |         | Mckd.(Odisha drawal)       | 57.38                                  | 57.38                                  | 25.93                                      | 25.93                                    | 198.12                                                                               | 198.12                                                                             |
|                   |         | Total Hydro                | 2084.88                                | 2084.88                                | 470.57                                     | 465.70                                   | 5113.12                                                                              | 5069.84                                                                            |
|                   |         | RES                        | 511.21                                 | 511.21                                 | 43.82                                      | 43.82                                    | 366.63                                                                               | 366.63                                                                             |
|                   |         | Total Odisha               | 4806.09                                | 4796.09                                | 1342.66                                    | 1275.95                                  | 13205.37                                                                             | 12494.63                                                                           |
| (**) SIKKIM       | Hydro   | RES                        | 52.18                                  | 52.18                                  | 1.00                                       | 1.00                                     | 14.00                                                                                | 14.00                                                                              |
| NTPC              |         | MTPS Stg-II                | 390.00                                 | 390.00                                 | 202.226                                    | 181.48                                   | 1323.91                                                                              | 1178.62                                                                            |
|                   |         | FSTPP# I&II ( 3x200+2x500) | 1600.00                                | 1600.00                                | 640.08                                     | 591.72                                   | 5297.20                                                                              | 4848.71                                                                            |
|                   |         | FSTPP (U# 6)               | 500.00                                 | 500.00                                 | 280.39                                     | 258.58                                   | 2049.78                                                                              | 1885.23                                                                            |
|                   |         | KhSTPP (4x210+3x500)       | 2340.00                                | 2340.00                                | 701.64                                     | 640.82                                   | 8477.20                                                                              | 7780.66                                                                            |
|                   |         | TSTPP (2x500)              | 1000.00                                | 1000.00                                | 596.82                                     | 548.68                                   | 5147.64                                                                              | 4750.72                                                                            |
|                   |         | BARH STPS II (2X660)       | 1320.00                                | 1320.00                                | 667.39                                     | 628.39                                   | 4658.76                                                                              | 4361.05                                                                            |
|                   |         | BRBCL # I,2,3(3X250 MW)    | 750                                    | 750                                    | 423.73                                     | 390.58                                   | 2529.99                                                                              | 2308.92                                                                            |
|                   |         | NSTPS                      | 660.00                                 | 660.00                                 | 244.75                                     | 228.61                                   | 3151.33                                                                              | 2980.47                                                                            |
|                   |         | DSTPP                      | 800.00                                 | 800.00                                 | 490.05                                     | 461.50                                   | 2824.87                                                                              | 2624.87                                                                            |
|                   |         | Total NTPC                 | 9360.00                                | 9360.00                                | 4247.08                                    | 3930.35                                  | 35460.67                                                                             | 32719.24                                                                           |
| NHPC              | HYDRO   | Rangit (3x20)              | 60.00                                  | 60.00                                  | 20.19                                      | 20.19                                    | 231.91                                                                               | 231.91                                                                             |
|                   |         | Teesta (3x170)             | 510.00                                 | 510.00                                 | 160.40                                     | 160.40                                   | 2444.21                                                                              | 2444.21                                                                            |
|                   |         | TLDP -( 4x33+4x40)         | 292.00                                 | 292.00                                 | 64.58                                      | 64.58                                    | 1105.71                                                                              | 1105.71                                                                            |
|                   |         | Total NHPC                 | 862.00                                 | 862.00                                 | 245.17                                     | 245.17                                   | 3781.83                                                                              | 3781.83                                                                            |
| 1553.23           |         | MPL (U#1&2)                | 1050.00                                | 1050.00                                | 601.20                                     | 565.61                                   | 4259.34                                                                              | 3990.98                                                                            |
|                   |         | APNRL (U#1,2)              | 540.00                                 | 540.00                                 | 183.07                                     | 175.69                                   | 1871.52                                                                              | 1729.94                                                                            |
|                   |         | GMR (2x350)                | 700.00                                 | 700.00                                 | 453.02                                     | 425.62                                   | 3152.34                                                                              | 2942.17                                                                            |
|                   |         | JITPL (2X600)              | 1200.00                                | 1200.00                                | 410.69                                     | 386.31                                   | 3605.33                                                                              | 3378.22                                                                            |
|                   |         | CHUZACHEN** (2x55)         | 110.00                                 | 110.00                                 | 18.22                                      | 18.22                                    | 449.34                                                                               | 449.34                                                                             |
|                   |         | JOETHANG (2x48)            | 96.00                                  | 96.00                                  | 23.16                                      | 23.16                                    | 350.55                                                                               | 350.55                                                                             |
|                   |         | TEESTA URJA St III (6x200) | 1200.00                                | 1200.00                                | 295.84                                     | 295.84                                   | 5334.62                                                                              | 5334.62                                                                            |
|                   |         | Tashilding (2x48.5)        | 97.00                                  | 97.00                                  | 2.79                                       | 2.79                                     | 326.05                                                                               | 326.05                                                                             |
|                   |         | DICKCHU (2x48)             | 96.00                                  | 96.00                                  | 15.79                                      | 15.79                                    | 428.68                                                                               | 428.68                                                                             |
|                   |         | TALCHER SOLAR              | 10.00                                  | 10.00                                  | 1.15                                       | 1.15                                     | 8.68                                                                                 | 8.68                                                                               |
|                   |         | Total Thermal (E.R)        | 30195.00                               | 30130.00                               | 12766.95                                   | 11785.48                                 | 104859.93                                                                            | 96605.38                                                                           |
| EASTERN REGIONAL  |         | Total Hydro (E.R)          | 5876.58                                | 5876.58                                | 1205.05                                    | 1200.12                                  | 17362.40                                                                             | 17318.06                                                                           |
|                   |         | Total RES                  | 1488.68                                | 1488.68                                | 67.39                                      | 67.39                                    | 627.65                                                                               | 627.65                                                                             |
|                   |         | TOTAL (E.R)                | 37560.26                               | 37495.26                               | 14039.40                                   | 13052.99                                 | 122849.99                                                                            | 114551.10                                                                          |
| BHUTAN            | Hydro   | CHPC(4x90)                 | 360.00                                 | 270.00                                 | 116.90                                     | 116.90                                   | 1826.40                                                                              | 1826.40                                                                            |
|                   | Hydro   | Kurichu (4x15)             | 60.00                                  | 60.00                                  | 18.94                                      | 18.94                                    | 402.88                                                                               | 402.88                                                                             |
|                   | Hydro   | TALA (6x170)               | 1020.00                                | 1020.00                                | 134.46                                     | 134.46                                   | 3102.76                                                                              | 3102.76                                                                            |
|                   | Hydro   | DAGACHU (2x63)             | 126.00                                 | 126.00                                 | 30.32                                      | 30.32                                    | 439.31                                                                               | 439.31                                                                             |
|                   |         | MANGDECHU(4x180 )          | 720.00                                 | 720.00                                 | 142.38                                     | 142.38                                   | 2846.15                                                                              | 2846.15                                                                            |
|                   |         | Grand Total                | 39846.26                               | 39691.26                               | 14482.41                                   | 13496.00                                 | 131467.49                                                                            | 123168.60                                                                          |

PLANT LOAD FACTOR ( PLF ) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF NOVEMBER' 2020

| 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 | PLF<br>of Current<br>Month<br>( % ) | Cummulative Gross<br>Energy Generation<br>upto Current Month<br>( 2020-21 ) in MU | Cummulative PLF<br>upto Current<br>Month<br>( % ) |
|-----------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|----------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|
| BIHAR                                                           | NTPC          | Barauni (U# 6,7 )                                                                                | 220.00                             | 210.00                             | 1.10                                   | 0.73                                | 24.82                                                                             | 2.02                                              |
|                                                                 | Thermal       | Barauni (U# 8)                                                                                   | 250.00                             | 250.00                             | 0.00                                   | 0.00                                | 850.60                                                                            | 58.10                                             |
|                                                                 |               | Muzaffarpur Stg-I                                                                                | 220.00                             | 220.00                             | 0.00                                   | 0.00                                | 38.58                                                                             | 2.99                                              |
|                                                                 |               | Thermal Total                                                                                    | 690.00                             | 680.00                             | 1.10                                   | 0.22                                | 914.00                                                                            | 22.95                                             |
|                                                                 | RES           |                                                                                                  | 341.25                             | 341.25                             | 19.47                                  |                                     | 166.45                                                                            |                                                   |
|                                                                 | Total BIHAR   |                                                                                                  | 1031.25                            | 1021.25                            | 20.57                                  |                                     | 1080.45                                                                           |                                                   |
| JHARKHAND                                                       |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| TVNL                                                            | Thermal       | TVNL                                                                                             | 420.00                             | 420.00                             | 196.73                                 | 65.06                               | 1524.42                                                                           | 61.98                                             |
| JSEB                                                            | Hydro         | Subarnrekha (U#1,2)                                                                              | 130.00                             | 130.00                             | 0.00                                   |                                     | 50.03                                                                             |                                                   |
|                                                                 | RES           |                                                                                                  | 46.75                              | 46.75                              | 0.00                                   |                                     | 0.00                                                                              |                                                   |
|                                                                 | Total         |                                                                                                  | 176.75                             | 176.75                             | 0.00                                   |                                     | 50.03                                                                             |                                                   |
| DVC                                                             | Thermal       | Bokaro-B(3)                                                                                      | 210.00                             | 210.00                             | 0.00                                   | 0.00                                | 18.59                                                                             | 1.51                                              |
|                                                                 |               | Chandrapura( U7 # 8)                                                                             | 500.00                             | 500.00                             | 310.54                                 | 86.26                               | 2264.69                                                                           | 77.35                                             |
|                                                                 |               | Durgapur(4)                                                                                      | 210.00                             | 210.00                             | 0.00                                   | 30.41                               | 61.07                                                                             | 4.97                                              |
|                                                                 |               | Mezia(1,2,3,4,5,6)                                                                               | 1340.00                            | 1340.00                            | 700.32                                 | 72.59                               | 4053.88                                                                           | 51.66                                             |
|                                                                 |               | Mezia( U # 7,8)                                                                                  | 1000.00                            | 1000.00                            | 485.88                                 | 67.48                               | 3742.78                                                                           | 63.91                                             |
|                                                                 |               | Bokaro-A(1)                                                                                      | 500.00                             | 500.00                             | 292.23                                 | 81.18                               | 2119.27                                                                           | 72.38                                             |
|                                                                 |               | Durgapur STPS (U#1,2)                                                                            | 1000.00                            | 1000.00                            | 405.80                                 | 56.36                               | 3627.07                                                                           | 61.94                                             |
|                                                                 |               | Raghunathpur TPS (U#1,2)                                                                         | 1200.00                            | 1200.00                            | 432.52                                 | 50.06                               | 3050.15                                                                           | 43.40                                             |
|                                                                 |               | Koderma STPS (U#1,2)                                                                             | 1000.00                            | 1000.00                            | 707.86                                 | 98.31                               | 4816.81                                                                           | 82.25                                             |
|                                                                 | Total Thermal | 6960.00                                                                                          | 6960.00                            | 3381.14                            | 67.47                                  | 23754.31                            | 58.28                                                                             |                                                   |
|                                                                 | Hydro         | Maithon (U#1,2,3)                                                                                | 63.20                              | 63.20                              | 3.35                                   |                                     | 166.23                                                                            |                                                   |
|                                                                 |               | Panchet (U#1,2)                                                                                  | 80.00                              | 80.00                              | 1.87                                   |                                     | 152.98                                                                            |                                                   |
|                                                                 |               | Tilaya (U#1,2)                                                                                   | 4.00                               | 4.00                               | 2.47                                   |                                     | 5.98                                                                              |                                                   |
|                                                                 |               | Hydro Total                                                                                      | 147.20                             | 147.20                             | 7.70                                   |                                     | 325.19                                                                            |                                                   |
|                                                                 |               | Total DVC                                                                                        | 7107.20                            | 7107.20                            | 3388.84                                |                                     | 24079.50                                                                          |                                                   |
| WEST BENGAL                                                     |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| WBPDC                                                           | Thermal       | Bandel TPS                                                                                       | 380.00                             | 335.00                             | 108.12                                 | 44.83                               | 714.38                                                                            | 36.42                                             |
|                                                                 |               | Santalidih TPS(U#5&6)                                                                            | 500.00                             | 500.00                             | 308.67                                 | 85.74                               | 2035.16                                                                           | 69.51                                             |
|                                                                 |               | Kolaghat TPS                                                                                     | 1260.00                            | 1260.00                            | 115.37                                 | 12.72                               | 954.28                                                                            | 12.93                                             |
|                                                                 |               | Bakreswar TPP                                                                                    | 1050.00                            | 1050.00                            | 605.30                                 | 80.07                               | 4902.39                                                                           | 79.73                                             |
|                                                                 |               | Sagardighi TPP                                                                                   | 1600.00                            | 1600.00                            | 438.05                                 | 38.03                               | 5638.49                                                                           | 60.18                                             |
|                                                                 |               | DPPS (300+250 *)                                                                                 | 550.00                             | 550.00                             | 152.97                                 | 38.63                               | 1613.41                                                                           | 50.09                                             |
|                                                                 |               | Thermal Total                                                                                    | 5340.00                            | 5295.00                            | 1728.48                                | 45.34                               | 15858.10                                                                          | 51.14                                             |
| WBSEDCL                                                         | Hydro         | Jaldhaka (3x9+2x4)                                                                               | 35.00                              | 35.00                              | 21.28                                  |                                     | 165.60                                                                            |                                                   |
|                                                                 |               | Ramam (4x12.73)                                                                                  | 51.00                              | 51.00                              | 18.41                                  |                                     | 217.44                                                                            |                                                   |
|                                                                 |               | Teesta C.F. (3x3x7.5)                                                                            | 67.50                              | 67.50                              | 5.08                                   |                                     | 31.08                                                                             |                                                   |
|                                                                 |               | Purulia PSS (4x225)                                                                              | 900.00                             | 900.00                             | 81.07                                  |                                     | 788.88                                                                            |                                                   |
|                                                                 |               | Total Hydro                                                                                      | 1053.50                            | 1053.50                            | 125.83                                 |                                     | 1203.00                                                                           |                                                   |
|                                                                 |               | RES                                                                                              | 527.29                             | 527.29                             | 1.95                                   |                                     | 71.89                                                                             |                                                   |
|                                                                 |               | WBPDC, Bandel TPS Unit #3 & Unit #4 ( IC=2X82.5 MW, EC=2X60 MW ) decommissioned from 01.04.2018. |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| 1. IB U#3 (660 MW) COD from 03.07.19                            |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| 2. IB U#4 (660 MW) COD from 21.08.19                            |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| 3. NSTPS U#1(660 MW) COD from 06.09.2019                        |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| 4. BARAUNI TPS U#1(250 MW) COD 01.03.2020                       |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| 5. DARLIPALI S TPS U#1(800 MW) COD 01.03.2020                   |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| 6. DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA.    |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |
| 7. CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA. |               |                                                                                                  |                                    |                                    |                                        |                                     |                                                                                   |                                                   |

| 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>( 2020-21 ) in MU | Cummulative PLF<br>upto Current<br>Month<br>( % ) |
|-------------------|---------|----------------------------|-----------------------|-----------------------|----------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|
|                   |         |                            | ( in MW )             | ( in MW )             |                                        |                                     |                                                                                   |                                                   |
| CESEC             | Thermal | Titagarh (4x60)            | 240.00                | 240.00                | 0.00                                   | 0.00                                | 0.00                                                                              | 0.00                                              |
|                   |         | Southern (2x67.5)          | 135.00                | 135.00                | 7.36                                   | 7.57                                | 30.05                                                                             | 3.80                                              |
|                   |         | Budge-Budge (3x250)        | 750.00                | 750.00                | 370.85                                 | 68.68                               | 3742.68                                                                           | 85.22                                             |
|                   |         | Total CESC                 | 1125.00               | 1125.00               | 378.21                                 | 46.69                               | 3772.73                                                                           | 57.27                                             |
| HEL               | Thermal |                            | 600.00                | 600.00                | 357.96                                 | 82.86                               | 2961.55                                                                           | 84.29                                             |
|                   |         | Total West Bengal          | 8645.79               | 8600.79               | 2592.43                                |                                     | 23867.28                                                                          |                                                   |
| ODISHA            | Thermal | Talcher-I                  | 250.00                | 240.00                | 158.16                                 | 91.53                               | 1215.57                                                                           | 86.49                                             |
| (NTPC)            |         | Talcher-II                 | 220.00                | 220.00                | 133.43                                 | 84.23                               | 1157.67                                                                           | 89.86                                             |
|                   |         | Total Thermal              | 470.00                | 460.00                | 291.59                                 | 88.04                               | 2373.24                                                                           | 88.10                                             |
| OPGC              | Thermal | IB TPS                     | 420.00                | 420.00                | 242.31                                 | 80.13                               | 1784.16                                                                           | 72.54                                             |
|                   |         | IB TPS U#3(660 MW)         | 660.00                | 660.00                | 16.42                                  | 3.46                                | 1325.41                                                                           | 34.29                                             |
|                   |         | IB TPS U#4(660 MW)         | 660.00                | 660.00                | 277.95                                 | 60.51                               | 2242.81                                                                           | 58.03                                             |
| OHPC              | Hydro   | Hirakud-I (Burla)          | 275.50                | 275.50                | 51.24                                  |                                     | 508.30                                                                            |                                                   |
|                   |         | Hirakud-II (Chiplima)      | 72.00                 | 72.00                 | 27.03                                  |                                     | 252.43                                                                            |                                                   |
|                   |         | Balimela (6x60+2x75)       | 510.00                | 510.00                | 141.67                                 |                                     | 1281.39                                                                           |                                                   |
|                   |         | Rengali (5x50)             | 250.00                | 250.00                | 64.15                                  |                                     | 901.64                                                                            |                                                   |
|                   |         | Upper Kolab (4x80)         | 320.00                | 320.00                | 52.81                                  |                                     | 605.30                                                                            |                                                   |
|                   |         | Indravati HPS (4x150)      | 600.00                | 600.00                | 107.74                                 |                                     | 1365.94                                                                           |                                                   |
|                   |         | Mckd.(Odisha drawal)       | 57.38                 | 57.38                 | 25.93                                  |                                     | 198.12                                                                            |                                                   |
|                   |         | Total Hydro                | 2084.88               | 2084.88               | 470.57                                 |                                     | 5113.12                                                                           |                                                   |
|                   |         | RES                        | 511.21                | 511.21                | 43.82                                  |                                     | 366.63                                                                            |                                                   |
|                   |         | Total Odisha               | 4806.09               | 4796.09               | 1342.66                                |                                     | 13205.37                                                                          |                                                   |
| (**) SIKKIM       | Hydro   | RES                        | 52.18                 | 52.18                 | 1.00                                   |                                     | 14.00                                                                             |                                                   |
| NTPC              |         | MTPS Stg-II                | 390                   | 390                   | 202.226                                | 72.02                               | 1323.91                                                                           | 57.97                                             |
|                   |         | FSTPP# I&II ( 3x200+2x500) | 1600.00               | 1600.00               | 640.08                                 | 55.56                               | 5297.20                                                                           | 56.54                                             |
|                   |         | FSTPP (U# 6)               | 500.00                | 500.00                | 280.39                                 | 77.89                               | 2049.78                                                                           | 70.01                                             |
|                   |         | KhSTPP (4x210+3x500)       | 2340.00               | 2340.00               | 701.64                                 | 41.65                               | 8477.20                                                                           | 61.86                                             |
|                   |         | TSTPP (2x500)              | 1000.00               | 1000.00               | 596.82                                 | 82.89                               | 5147.64                                                                           | 87.90                                             |
|                   |         | BARH STPS II (2X660)       | 1320.00               | 1320.00               | 667.39                                 | 70.22                               | 4658.76                                                                           | 60.27                                             |
|                   |         | BRBCL # I,2,3(3X250 MW)    | 750.00                | 750.00                | 423.73                                 | 78.47                               | 2529.99                                                                           | 57.60                                             |
|                   |         | NSTPS                      | 660.00                | 660.00                | 244.75                                 | 51.50                               | 3151.33                                                                           | 81.54                                             |
|                   |         | DSTPP                      | 800.00                | 800.00                | 490.05                                 | 85.08                               | 2824.87                                                                           | 60.30                                             |
|                   |         | Total NTPC                 | 9360.00               | 9360.00               | 4247.08                                | 63.02                               | 35460.67                                                                          | 64.69                                             |
| NHPC              | HYDRO   | Rangit (3x20)              | 60.00                 | 60.00                 | 20.19                                  |                                     | 231.91                                                                            |                                                   |
|                   |         | Teesta (3x170)             | 510.00                | 510.00                | 160.40                                 |                                     | 2444.21                                                                           |                                                   |
|                   |         | TLDP -( 4x33+4x40)         | 292.00                | 292.00                | 64.58                                  |                                     | 1105.71                                                                           |                                                   |
|                   |         | Total NHPC                 | 862.00                | 862.00                | 245.17                                 |                                     | 3781.83                                                                           |                                                   |
|                   | Thermal | MPL (U#1&2)                | 1050.00               | 1050.00               | 601.20                                 | 79.52                               | 4259.34                                                                           | 69.27                                             |
|                   |         | APNRL (U#1,2)              | 540.00                | 540.00                | 183.07                                 | 47.08                               | 1871.52                                                                           | 59.18                                             |
|                   |         | GMR (2x350)                | 700.00                | 700.00                | 453.02                                 | 89.89                               | 3152.34                                                                           | 76.90                                             |
|                   |         | JITPL (2X600)              | 1200.00               | 1200.00               | 410.69                                 | 47.53                               | 3605.33                                                                           | 51.31                                             |
|                   |         | CHUZACHEN** (2x55)         | 110.00                | 110.00                | 18.22                                  |                                     | 449.34                                                                            |                                                   |
|                   |         | JORETHANG (2x48)           | 96.00                 | 96.00                 | 23.16                                  |                                     | 350.55                                                                            |                                                   |
|                   |         | TEESTA URJA St III (6x200) | 1200.00               | 1200.00               | 295.84                                 |                                     | 5334.62                                                                           |                                                   |
|                   |         | Tashilding (2x48.5)        | 97.00                 | 97.00                 | 2.79                                   |                                     | 326.05                                                                            |                                                   |
|                   |         | DICKCHU (2x48)             | 96.00                 | 96.00                 | 15.79                                  |                                     | 428.68                                                                            |                                                   |
|                   |         | TALCHER SOLAR              | 10.00                 | 10.00                 | 1.15                                   |                                     | 8.68                                                                              |                                                   |
|                   |         | Total Thermal (E.R)        | 30195.00              | 30130.00              | 12766.95                               | 58.85                               | 104859.93                                                                         | 59.43                                             |
| EASTERN REGIONAL  |         | Total Hydro (E.R)          | 5876.58               | 5876.58               | 1205.05                                |                                     | 17362.40                                                                          |                                                   |
|                   |         | Total RES                  | 1488.68               | 1488.68               | 67.39                                  |                                     | 627.65                                                                            |                                                   |
|                   |         | TOTAL (E.R)                | 37560.26              | 37495.26              | 14039.40                               |                                     | 122849.99                                                                         |                                                   |
| BHUTAN            | Hydro   | CHPC(4x90)                 | 360.00                | 270.00                | 116.90                                 |                                     | 1826.40                                                                           |                                                   |
|                   | Hydro   | Kurichu (4x15)             | 60.00                 | 60.00                 | 18.94                                  |                                     | 402.88                                                                            |                                                   |
|                   | Hydro   | TALA (6x170)               | 1020.00               | 1020.00               | 134.46                                 |                                     | 3102.76                                                                           |                                                   |
|                   | Hydro   | DAGACHU (2x63)             | 126.00                | 126.00                | 30.32                                  |                                     | 439.31                                                                            |                                                   |
|                   |         | MANGDECHU(4x180 )          | 720.00                | 720.00                | 142.38                                 |                                     | 2846.15                                                                           |                                                   |
|                   |         | Grand Total                | 39846.26              | 39691.26              | 14482.41                               |                                     | 131467.49                                                                         |                                                   |

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK  
DURING THE MONTH OF NOVEMBER'2020 (2-11-2020)

Date 2-Nov-20  
Time 19.00 Hrs.  
Frequency 49.99 Hz.

|                                        |           |           |       |         |     | (All Fig. in MW ) |
|----------------------------------------|-----------|-----------|-------|---------|-----|-------------------|
| System/State                           | Installed | Effective | Hydro | Thermal | RES | Net Gen           |
|                                        | Capacity  | Capacity  |       |         |     | Total             |
| BSPHCL                                 | 1031      | 1021      | 0     | 0       | 0   | 0                 |
| JUVNL                                  | 597       | 597       | 0     | 244     | 0   | 244               |
| DVC                                    | 7107      | 7107      | 4     | 4588    | 0   | 4592              |
| ODISHA                                 | 4806      | 4796      | 1233  | 976     | 45  | 2254              |
| WBSEDCL                                | 6371      | 6326      | 724   | 2551    | 0   | 3276              |
| TLDP                                   | 292       | 292       | 134   | 0       | 0   | 134               |
| HEL HALDIA                             | 600       | 600       | 0     | 549     | 0   | 549               |
| CESC                                   | 1125      | 1125      | 0     | 699     | 0   | 699               |
| DPL                                    | 550       | 550       | 0     | 0       | 0   | 0                 |
| SIKKIM                                 | 52        | 52        | 0     | 0       | 0   | 0                 |
| NTPC                                   | 9360      | 9360      | 0     | 7729    | 0   | 7729              |
| NHPC                                   | 570       | 570       | 577   | 0       | 0   | 577               |
| CHUKHA                                 | 360       | 270       | 220   | 0       | 0   | 220               |
| KURICHU                                | 60        | 60        | 40    | 0       | 0   | 40                |
| TALA                                   | 1020      | 1020      | 253   | 0       | 0   | 253               |
| MPL                                    | 1050      | 1050      | 0     | 977     | 0   | 977               |
| OPGC (660 MW)                          | 0         | 0         | 0     | 0       | 0   | 0                 |
| APNRL                                  | 540       | 540       | 0     | 246     | 0   | 246               |
| Kamalganga (GMR)                       | 700       | 700       | 0     | 662     | 0   | 662               |
| JITPL                                  | 1200      | 1200      | 0     | 527     | 0   | 527               |
| Chuzachen                              | 110       | 110       | 81    | 0       | 0   | 81                |
| Jorethang                              | 96        | 96        | 19    | 0       | 0   | 19                |
| TEESTA URJA St III                     | 1200      | 1200      | 1173  | 0       | 0   | 1173              |
| Tashilding                             | 97        | 97        | 15    | 0       | 0   | 15                |
| DICKCHU                                | 96        | 96        | 95    | 0       | 0   | 95                |
| <u>Daghachu</u>                        | 126       | 126       | 53    | 0       | 0   | 53                |
| <u>Solar</u>                           | 10        | 10        | 0     | 0       | 0   | 0                 |
| <u>Mangdechhu</u>                      | 720       | 720       | 250   | 0       | 0   | 250               |
| <u>Total</u>                           | 39846     | 39691     | 4871  | 19748   | 45  | 24665             |
| Import From Captive:                   |           |           |       |         |     | 1338              |
| Export To:                             |           |           |       |         |     |                   |
| NER                                    |           |           |       |         |     | 619               |
| SR                                     |           |           |       |         |     | 3256              |
| WR                                     |           |           |       |         |     | -2182             |
| NR                                     |           |           |       |         |     | 2893              |
| Bangladesh                             |           |           |       |         |     | 908               |
| Nepal                                  |           |           |       |         |     | 102               |
| Total                                  |           |           |       |         |     | 5596              |
| ➤ I Net Peak Demand Met ( MW ) :       |           |           |       |         |     | 20406             |
| Indicates Export(+)/Import(-) of Power |           |           |       |         |     |                   |

**Hourly Load Generation Data OF ER On Regional Peak Day During The Month of NOVEMBER'2020 (2-11-2020)**

( All Figures in MW)

| Generation |       |         |       | Import       | Net                            | Net                       | Demand | Freq.      | Load |             |
|------------|-------|---------|-------|--------------|--------------------------------|---------------------------|--------|------------|------|-------------|
| Hrs.       | Hydro | Thermal | Total | from Captive | Import From<br>Hydro of Bhutan | Export<br>to other region | Met    | Correction | Shed | Requirement |
| 1          | 1397  | 18002   | 19399 | 1236         | 850                            | 4027                      | 17459  | -9         | 0    | 17459       |
| 2          | 1485  | 17470   | 18955 | 1235         | 856                            | 4004                      | 17042  | -10        | 1    | 17043       |
| 3          | 1450  | 16908   | 18358 | 1260         | 855                            | 3852                      | 16621  | -4         | 1    | 16622       |
| 4          | 1644  | 16740   | 18383 | 1204         | 852                            | 3949                      | 16490  | -4         | 1    | 16491       |
| 5          | 1719  | 16763   | 18482 | 1247         | 849                            | 4148                      | 16430  | 6          | 1    | 16436       |
| 6          | 1975  | 17680   | 19655 | 1255         | 861                            | 5194                      | 16577  | -1         | 1    | 16578       |
| 7          | 2822  | 18173   | 20995 | 1290         | 867                            | 6807                      | 16345  | -10        | 4    | 16349       |
| 8          | 2922  | 19177   | 22099 | 1309         | 884                            | 8272                      | 16020  | -4         | 6    | 16022       |
| 9          | 3044  | 19333   | 22377 | 1265         | 830                            | 8584                      | 15887  | -11        | 6    | 15893       |
| 10         | 3242  | 19321   | 22564 | 1199         | 809                            | 8668                      | 15904  | -4         | 2    | 15905       |
| 11         | 2812  | 19413   | 22225 | 1147         | 825                            | 8211                      | 15986  | 10         | 0    | 15996       |
| 12         | 2011  | 19230   | 21241 | 1123         | 822                            | 7068                      | 16119  | -13        | 0    | 16119       |
| 13         | 1731  | 18894   | 20625 | 1126         | 825                            | 6366                      | 16209  | 18         | 0    | 16227       |
| 14         | 1596  | 18308   | 19905 | 1148         | 861                            | 6083                      | 15830  | 12         | 0    | 15843       |
| 15         | 1691  | 19238   | 20929 | 1182         | 872                            | 7053                      | 15929  | 64         | 0    | 15994       |
| 16         | 2016  | 19510   | 21526 | 1182         | 839                            | 7348                      | 16198  | 16         | 0    | 16214       |
| 17         | 3146  | 19476   | 22623 | 1218         | 813                            | 8063                      | 16591  | -3         | 0    | 16591       |
| 18         | 4148  | 19557   | 23704 | 1312         | 797                            | 6422                      | 19392  | 46         | 108  | 19546       |
| 19         | 4101  | 19748   | 23849 | 1338         | 815                            | 5596                      | 20406  | 5          | 54   | 20465       |
| 20         | 3332  | 19476   | 22807 | 1334         | 908                            | 4863                      | 20186  | -4         | 0    | 20186       |
| 21         | 3026  | 19290   | 22316 | 1352         | 967                            | 4989                      | 19647  | -7         | 0    | 19647       |
| 22         | 2677  | 18943   | 21620 | 1367         | 991                            | 5406                      | 18572  | 3          | 0    | 18576       |
| 23         | 1914  | 18711   | 20624 | 1332         | 959                            | 5074                      | 17841  | -14        | 0    | 17841       |
| 24         | 1748  | 18511   | 20258 | 1337         | 831                            | 4842                      | 17584  | -9         | 0    | 17584       |

**Hourly Load Generation Data of ER On Regional Lean Day During The Month of NOVEMBER'2020 (23-11-2020)**

( All Figures in MW )

| Generation |       |         |       | Import       | Net                            | Net                       | Demand | Freq.      | Load |             |
|------------|-------|---------|-------|--------------|--------------------------------|---------------------------|--------|------------|------|-------------|
| Hrs.       | Hydro | Thermal | Total | from Captive | Import From<br>Hydro of Bhutan | Export<br>to other region | Met    | Correction | Shed | Requirement |
| 1          | 510   | 14162   | 14673 | 1251         | 561                            | 4078                      | 12407  | -5         | 1    | 12408       |
| 2          | 512   | 13586   | 14098 | 1150         | 562                            | 3680                      | 12130  | -3         | 1    | 12132       |
| 3          | 495   | 13235   | 13729 | 1119         | 558                            | 3477                      | 11929  | -4         | 1    | 11931       |
| 4          | 449   | 13275   | 13724 | 1118         | 563                            | 3617                      | 11787  | 10         | 1    | 11799       |
| 5          | 566   | 13738   | 14304 | 1122         | 554                            | 3881                      | 12100  | 6          | 1    | 12107       |
| 6          | 698   | 14422   | 15120 | 1273         | 538                            | 4193                      | 12738  | 14         | 1    | 12754       |
| 7          | 1050  | 15661   | 16711 | 1404         | 499                            | 4902                      | 13711  | 23         | 2    | 13736       |
| 8          | 1735  | 17461   | 19196 | 1458         | 486                            | 6191                      | 14949  | 43         | 1    | 14994       |
| 9          | 2639  | 17763   | 20402 | 1484         | 493                            | 7856                      | 14523  | 18         | 114  | 14654       |
| 10         | 2986  | 17847   | 20833 | 1440         | 498                            | 8428                      | 14344  | 23         | 101  | 14467       |
| 11         | 2087  | 17753   | 19839 | 1464         | 499                            | 7599                      | 14203  | 12         | 100  | 14315       |
| 12         | 1246  | 17314   | 18560 | 1479         | 495                            | 6380                      | 14154  | 4          | 100  | 14258       |
| 13         | 834   | 17318   | 18152 | 1421         | 507                            | 6322                      | 13758  | 17         | 101  | 13875       |
| 14         | 719   | 16769   | 17488 | 1438         | 509                            | 6263                      | 13172  | -13        | 100  | 13259       |
| 15         | 420   | 17097   | 17517 | 1382         | 506                            | 6830                      | 12575  | 24         | 101  | 12701       |
| 16         | 332   | 17463   | 17796 | 1487         | 496                            | 6922                      | 12857  | 35         | 101  | 12993       |
| 17         | 2114  | 17669   | 19783 | 1609         | 480                            | 7428                      | 14445  | 48         | 764  | 15257       |
| 18         | 3680  | 18031   | 21711 | 1693         | 446                            | 6624                      | 17226  | 35         | 1    | 17262       |
| 19         | 4039  | 18207   | 22245 | 1693         | 448                            | 6711                      | 17676  | 12         | 0    | 17689       |
| 20         | 2862  | 17987   | 20848 | 1661         | 457                            | 6100                      | 16866  | -7         | 0    | 16866       |
| 21         | 1996  | 17872   | 19868 | 1692         | 480                            | 5758                      | 16282  | 30         | 0    | 16312       |
| 22         | 775   | 17477   | 18252 | 1609         | 502                            | 5274                      | 15089  | -17        | 0    | 15089       |
| 23         | 573   | 16253   | 16827 | 1521         | 518                            | 5093                      | 13773  | 1          | 0    | 13774       |
| 24         | 536   | 15442   | 15978 | 1435         | 521                            | 4732                      | 13202  | -2         | 0    | 13202       |

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

**FOR THE MONTH OF NOVEMBER'2020**

**POWER CUT / RESTRICTIONS**

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| <b>BSPHCL</b>      | NO NOTIFIED CUTS/RESTRICTIONS<br>However there was loadshedding of 2.70 MU  |
| <b>JUVNL</b>       | NO NOTIFIED CUTS/RESTRICTIONS<br>However there was loadshedding of 12.79 MU |
| <b>DVC</b>         | NO NOTIFIED CUTS/RESTRICTIONS.<br>However there was loadshedding of 0.00 MU |
| <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 0.95 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

Nov-20

| D<br>A<br>T<br>E | H O U R S |       |       |       |       |       |       |        |       |       | INST. FREQ. |          |       |          | 15 MIN. INTEGRATED |      |       |      |
|------------------|-----------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------------|----------|-------|----------|--------------------|------|-------|------|
|                  | 00        | 05    | 10    | 17    | 22    | 00    | 49.9  | >50.05 | 49.9  |       | MAX         | HRS.     | MIN   | HRS.     | MAX                | HRS. | MIN   | HRS. |
|                  | TO        | TO    | TO    | TO    | TO    | TO    | <49.9 | TO     | TO    |       | HZ          |          | HZ    |          | HZ                 |      | HZ    |      |
|                  | 05        | 10    | 17    | 22    | 24    | 24    |       | 50.1   | 50.05 |       |             |          |       |          |                    |      |       |      |
| 01-Nov           | 49.99     | 50.01 | 49.99 | 50.00 | 50.02 | 50.00 | 2.40  | 82.50  | 15.00 | 82.50 | 50.17       | 18:00:30 | 49.82 | 12:13:40 | 50.07              | 0:00 | 49.90 | 0:00 |
| 02-Nov           | 50.01     | 50.01 | 49.97 | 49.99 | 50.02 | 49.99 | 5.40  | 79.40  | 15.20 | 79.40 | 50.16       | 06:02:20 | 49.77 | 17:39:30 | 50.05              | 0:00 | 49.85 | 0:00 |
| 03-Nov           | 50.01     | 50.00 | 50.01 | 50.01 | 50.02 | 50.01 | 1.70  | 80.30  | 17.90 | 80.30 | 50.15       | 13:02:10 | 49.82 | 06:12:20 | 50.08              | 0:00 | 49.90 | 0:00 |
| 04-Nov           | 49.98     | 50.00 | 49.96 | 50.01 | 50.02 | 49.99 | 3.60  | 82.80  | 13.60 | 82.80 | 50.16       | 06:02:20 | 49.82 | 15:52:40 | 50.07              | 0:00 | 49.88 | 0:00 |
| 05-Nov           | 50.02     | 50.00 | 49.98 | 49.97 | 50.00 | 49.99 | 7.00  | 77.50  | 15.50 | 77.50 | 50.20       | 06:01:50 | 49.68 | 17:20:00 | 50.06              | 0:00 | 49.74 | 0:00 |
| 06-Nov           | 49.99     | 49.99 | 49.99 | 50.03 | 50.02 | 50.00 | 2.00  | 78.80  | 19.30 | 78.80 | 50.20       | 13:01:19 | 49.86 | 16:11:09 | 50.09              | 0:00 | 49.94 | 0:00 |
| 07-Nov           | 49.97     | 49.97 | 49.99 | 50.02 | 49.99 | 49.99 | 2.80  | 83.30  | 13.90 | 83.30 | 50.15       | 15:03:00 | 49.83 | 05:11:20 | 50.08              | 0:00 | 49.91 | 0:00 |
| 08-Nov           | 49.99     | 49.98 | 49.99 | 50.02 | 50.00 | 49.99 | 2.60  | 84.20  | 13.20 | 84.20 | 50.16       | 06:02:10 | 49.81 | 05:40:10 | 50.09              | 0:00 | 49.89 | 0:00 |
| 09-Nov           | 49.99     | 49.98 | 49.99 | 50.02 | 50.02 | 50.00 | 2.60  | 81.90  | 15.50 | 81.90 | 50.19       | 06:02:20 | 49.83 | 06:25:40 | 50.07              | 0:00 | 49.90 | 0:00 |
| 10-Nov           | 49.99     | 50.01 | 50.00 | 50.01 | 50.00 | 50.00 | 1.50  | 80.10  | 18.40 | 80.10 | 50.17       | 18:01:20 | 49.82 | 17:39:30 | 50.07              | 0:00 | 49.92 | 0:00 |
| 11-Nov           | 50.00     | 49.99 | 49.98 | 50.01 | 49.99 | 49.99 | 2.80  | 85.10  | 12.10 | 85.10 | 50.18       | 18:01:00 | 49.82 | 16:13:40 | 50.06              | 0:00 | 49.90 | 0:00 |
| 12-Nov           | 49.97     | 49.99 | 49.98 | 50.01 | 49.98 | 49.98 | 6.60  | 78.60  | 14.70 | 78.60 | 50.15       | 08:02:00 | 49.78 | 22:07:50 | 50.08              | 0:00 | 49.86 | 0:00 |
| 13-Nov           | 50.01     | 49.99 | 50.01 | 50.01 | 50.01 | 50.01 | 2.40  | 78.70  | 18.80 | 78.70 | 50.19       | 14:04:10 | 49.79 | 09:11:40 | 50.13              | 0:00 | 49.87 | 0:00 |
| 14-Nov           | 49.95     | 50.02 | 49.98 | 49.99 | 49.97 | 49.98 | 7.80  | 73.60  | 18.60 | 73.60 | 50.17       | 18:19:50 | 49.76 | 04:17:50 | 50.11              | 0:00 | 49.83 | 0:00 |
| 15-Nov           | 49.94     | 49.94 | 49.98 | 49.99 | 50.03 | 49.97 | 10.40 | 80.30  | 9.30  | 80.30 | 50.18       | 22:01:40 | 49.77 | 08:44:10 | 50.09              | 0:00 | 49.83 | 0:00 |
| 16-Nov           | 50.00     | 49.99 | 49.97 | 50.02 | 50.00 | 49.99 | 5.80  | 74.10  | 20.20 | 74.10 | 50.27       | 00:04:30 | 49.81 | 16:42:50 | 50.18              | 0:00 | 49.85 | 0:00 |
| 17-Nov           | 49.97     | 50.00 | 50.00 | 50.00 | 49.97 | 49.99 | 2.70  | 81.30  | 16.00 | 81.30 | 50.17       | 05:02:00 | 49.77 | 23:06:40 | 50.08              | 0:00 | 49.90 | 0:00 |
| 18-Nov           | 50.00     | 49.98 | 49.98 | 50.00 | 50.01 | 49.99 | 4.20  | 82.20  | 13.60 | 82.20 | 50.17       | 13:03:10 | 49.83 | 15:22:20 | 50.07              | 0:00 | 49.86 | 0:00 |
| 19-Nov           | 49.99     | 49.98 | 50.00 | 49.98 | 49.98 | 49.99 | 4.20  | 83.10  | 12.70 | 83.10 | 50.14       | 13:01:00 | 49.77 | 16:23:00 | 50.06              | 0:00 | 49.88 | 0:00 |
| 20-Nov           | 49.95     | 50.00 | 50.00 | 50.01 | 50.01 | 49.99 | 2.90  | 83.10  | 14.00 | 83.10 | 50.15       | 13:03:00 | 49.82 | 01:17:40 | 50.06              | 0:00 | 49.88 | 0:00 |
| 21-Nov           | 49.94     | 50.01 | 49.99 | 50.00 | 50.01 | 49.99 | 5.60  | 78.00  | 16.30 | 78.00 | 50.21       | 22:00:10 | 49.77 | 17:54:40 | 50.05              | 0:00 | 49.87 | 0:00 |
| 22-Nov           | 49.98     | 49.97 | 49.97 | 50.00 | 49.99 | 49.98 | 8.50  | 78.80  | 12.70 | 78.80 | 50.18       | 18:02:10 | 49.77 | 22:11:10 | 50.07              | 0:00 | 49.85 | 0:00 |
| 23-Nov           | 50.00     | 49.95 | 49.96 | 49.98 | 50.00 | 49.97 | 10.40 | 75.80  | 13.80 | 75.80 | 50.15       | 22:00:20 | 49.77 | 07:20:00 | 50.07              | 0:00 | 49.85 | 0:00 |
| 24-Nov           | 49.99     | 49.97 | 49.99 | 50.01 | 50.04 | 49.99 | 5.70  | 77.30  | 17.00 | 77.30 | 50.16       | 14:03:40 | 49.78 | 08:36:40 | 50.08              | 0:00 | 49.85 | 0:00 |
| 25-Nov           | 49.98     | 49.99 | 50.00 | 50.02 | 50.01 | 50.00 | 2.10  | 79.60  | 18.30 | 79.60 | 50.25       | 13:04:50 | 49.84 | 12:50:50 | 50.18              | 0:00 | 49.91 | 0:00 |
| 26-Nov           | 50.02     | 49.99 | 49.98 | 50.02 | 50.00 | 50.00 | 3.80  | 73.40  | 22.80 | 73.40 | 50.18       | 06:20:00 | 49.77 | 16:19:30 | 50.11              | 0:00 | 49.86 | 0:00 |
| 27-Nov           | 50.00     | 49.96 | 50.01 | 50.01 | 50.03 | 50.00 | 3.50  | 75.90  | 20.60 | 75.90 | 50.15       | 06:01:30 | 49.70 | 08:12:00 | 50.09              | 0:00 | 49.80 | 0:00 |
| 28-Nov           | 49.98     | 50.00 | 49.99 | 49.99 | 50.00 | 49.99 | 3.60  | 81.20  | 15.20 | 81.20 | 50.19       | 08:01:00 | 49.81 | 16:49:20 | 50.12              | 0:00 | 49.88 | 0:00 |
| 29-Nov           | 49.95     | 49.99 | 49.98 | 49.98 | 50.01 | 49.98 | 6.40  | 79.80  | 13.80 | 79.80 | 50.20       | 21:59:50 | 49.79 | 20:49:40 | 50.06              | 0:00 | 49.88 | 0:00 |
| 30-Nov           | 49.98     | 49.99 | 49.98 | 50.01 | 50.00 | 49.99 | 2.80  | 83.60  | 13.60 | 83.60 | 50.17       | 18:01:00 | 49.81 | 13:53:00 | 50.05              | 0:00 | 49.88 | 0:00 |
| MAX              | 50.02     | 50.02 | 50.01 | 50.03 | 50.04 | 50.01 | 10.40 | 85.10  | 22.80 | 85.10 | 50.27       |          | 49.86 |          | 50.18              |      | 49.94 |      |
| MIN              | 49.94     | 49.94 | 49.96 | 49.97 | 49.97 | 49.97 | 1.50  | 73.40  | 9.30  | 73.40 | 50.14       |          | 49.68 |          | 50.05              |      | 49.74 |      |
| AVG              | 49.98     | 49.99 | 49.99 | 50.00 | 50.01 | 49.99 | 4.46  | 79.81  | 15.72 | 79.81 | 50.18       |          | 49.79 |          | 50.08              |      | 49.87 |      |

**SUMMARY:**

Avg. Frequency :

50.0 Hz.

**Instantaneous Frequency :**

Maximum Frequency : 50.27 Hz at 00:04 Hrs.

Minimum Frequency : 49.68 Hz at 17:20 Hrs.

**15 Minutes Integrated Frequency :**

Maximum Frequency : 50.18 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.74 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                           | 4.46  | 79.81      | 15.72  |

## ANNEXURE-II

## VOLTAGE ANALYSIS

## MAXIMUM &amp; MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF NOVEMBER'2020

( All figs. in kV)

| PGCIL | BINAGURI |     | MAITHON |     | JEERAT |     | BIHARSHARIFF |     |
|-------|----------|-----|---------|-----|--------|-----|--------------|-----|
|       | MAX      | MIN | MAX     | MIN | MAX    | MIN | MAX          | MIN |
|       | 421      | 403 | 424     | 403 | 426    | 389 | 421          | 400 |

| PGCIL | MUZAFFARPUR |     | JAMSHEDPUR |     | ROURKELA |     | JEYPORE |     |
|-------|-------------|-----|------------|-----|----------|-----|---------|-----|
|       | MAX         | MIN | MAX        | MIN | MAX      | MIN | MAX     | MIN |
|       | 419         | 394 | 417        | 402 | 422      | 393 | 421     | 405 |

## 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>(49.4 Hz)<br>(Inst.) | STAGE-II<br>(49.2 Hz)<br>(Inst.) | STAGE-III<br>(49.0 Hz)<br>(Inst.) | STAGE-IV<br>48.8 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                                  |
| TOTAL                       | 820                             | 830                              | 830                               | 840                            | 3320                                    |

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. Revised UFR Scheme (Stg-I 49.4Hz. Stg-II 49.2 Hz Stg-III 49.0 Hz and Stg-IV 48.8 Hz) implemented from March/ April-2020



A.

## WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN

Nov-20

(All figs.in mtrs.)

| Name of the Reservoirs | FRL | MDDL | As on last day of the |            | As on first day of this month & date |          |
|------------------------|-----|------|-----------------------|------------|--------------------------------------|----------|
|                        |     |      | (30-11-20)            | (30-11-19) |                                      |          |
| Hirakud                | 192 | 180  | 191.29                | 191.97     | 191.79                               | 01.11.20 |
| Balimela               | 462 | 439  | 457.23                | 460.61     | 458.30                               | 01.11.20 |
| Rengali                | 123 | 109  | 119.96                | 123.58     | 121.63                               | 01.11.20 |
| Upperkolab             | 858 | 844  | 852.66                | 857.12     | 852.68                               | 01.11.20 |
| Indravati              | 642 | 625  | 637.56                | 640.50     | 638.09                               | 01.11.20 |
| Subernrekha            | 590 | 580  | 586.34                | 585.98     | 586.83                               | 01.11.20 |

B.

## CPP/IPP IMPORT by Eastern Region Constituents during

Nov-20

(All figs. are in MU)

| System      | Tata Power | Crescent Power | JSPL, Angul | Sterlite | Jindal | NALCO | TISCO | Others | Total   |
|-------------|------------|----------------|-------------|----------|--------|-------|-------|--------|---------|
| JUVNL       | 0          | 0              | 0           | 0        | 0      | 0     | 0     | 0      | 50.80   |
| West Bengal | 67.17      | 25.82          | 0           | 0        | 0      | 0     | 0     | 110.86 | 203.85  |
| ODISHA      | 0          | 0              | 0.00        | 0.00     | 0.00   | 0.00  | 0     | 772.15 | 772.15  |
| DVC         | 0          | 0              | 0           | 0        | 0      | 0     | 15.38 | 0      | 15.38   |
| TOTAL       | 67.17      | 25.82          | 0.00        | 0.00     | 0.00   | 0.00  | 15.38 | 883.01 | 1042.18 |

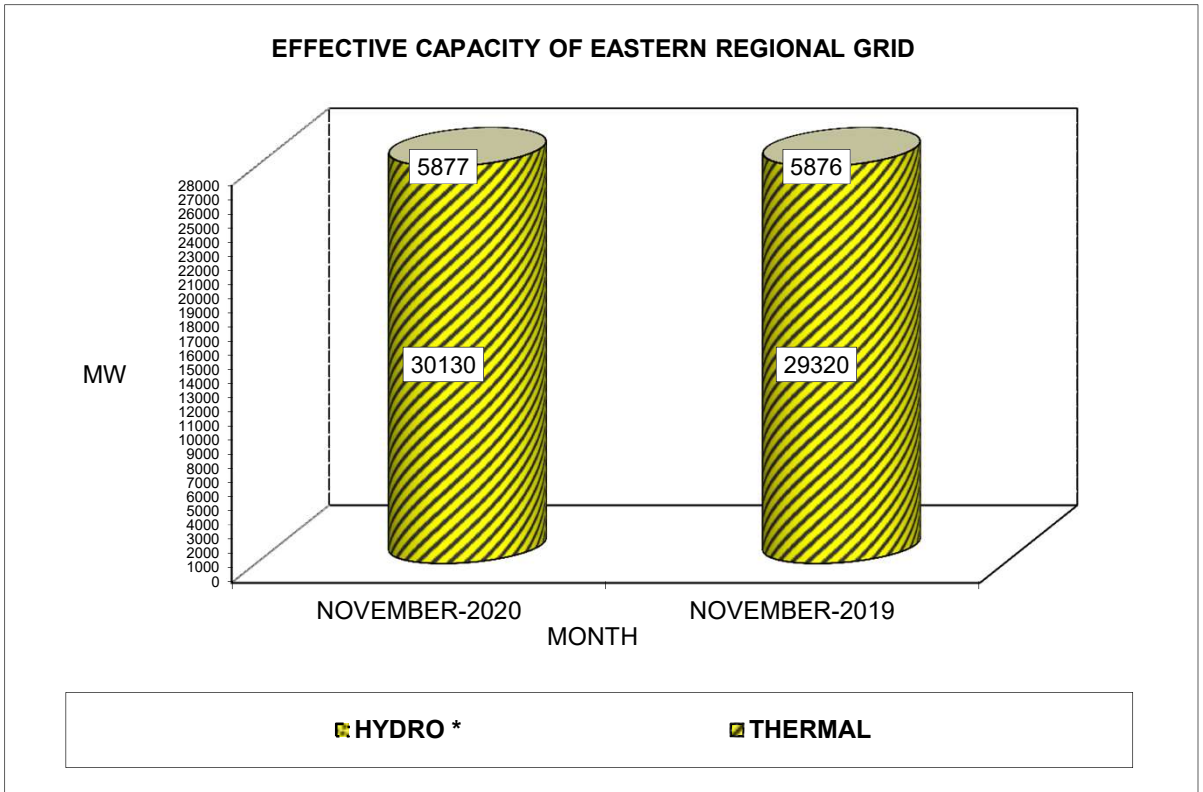
C.

## Distribution of Schedule Supply among Key Customers by IPPs during

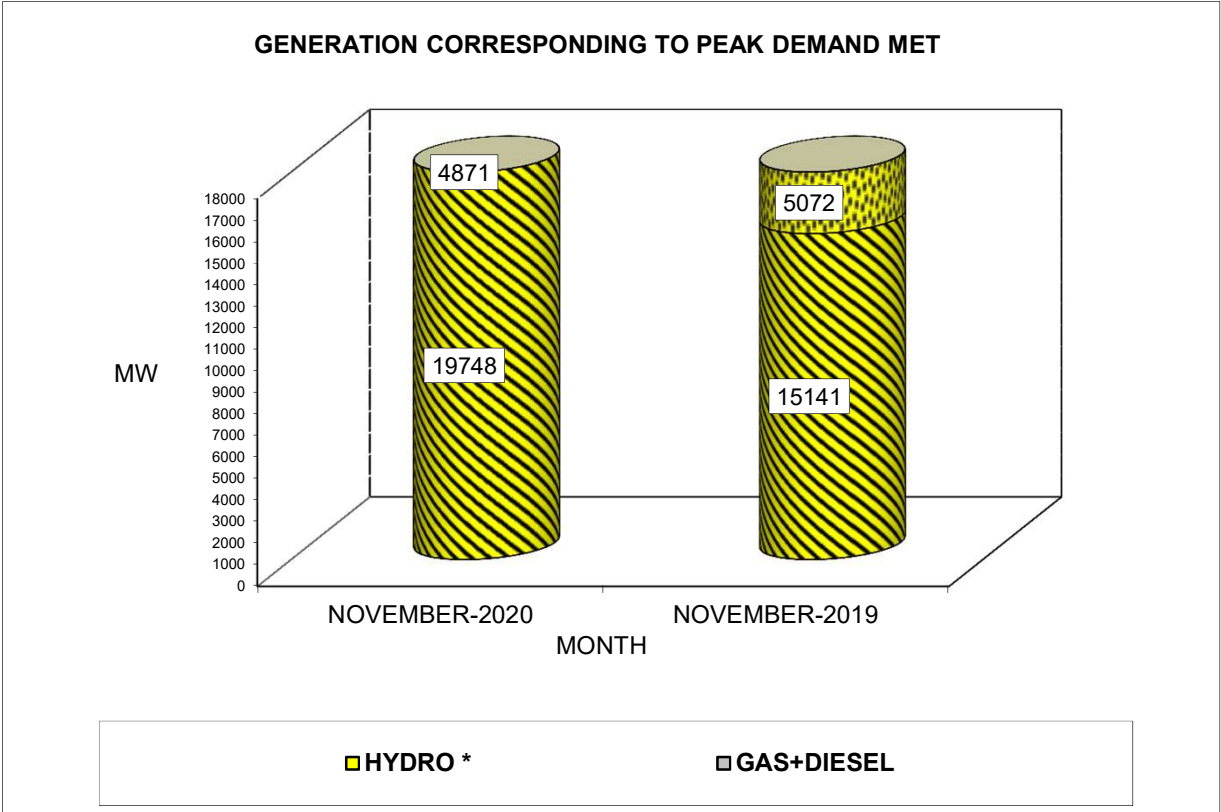
Nov-20

(All figs. are in MU)

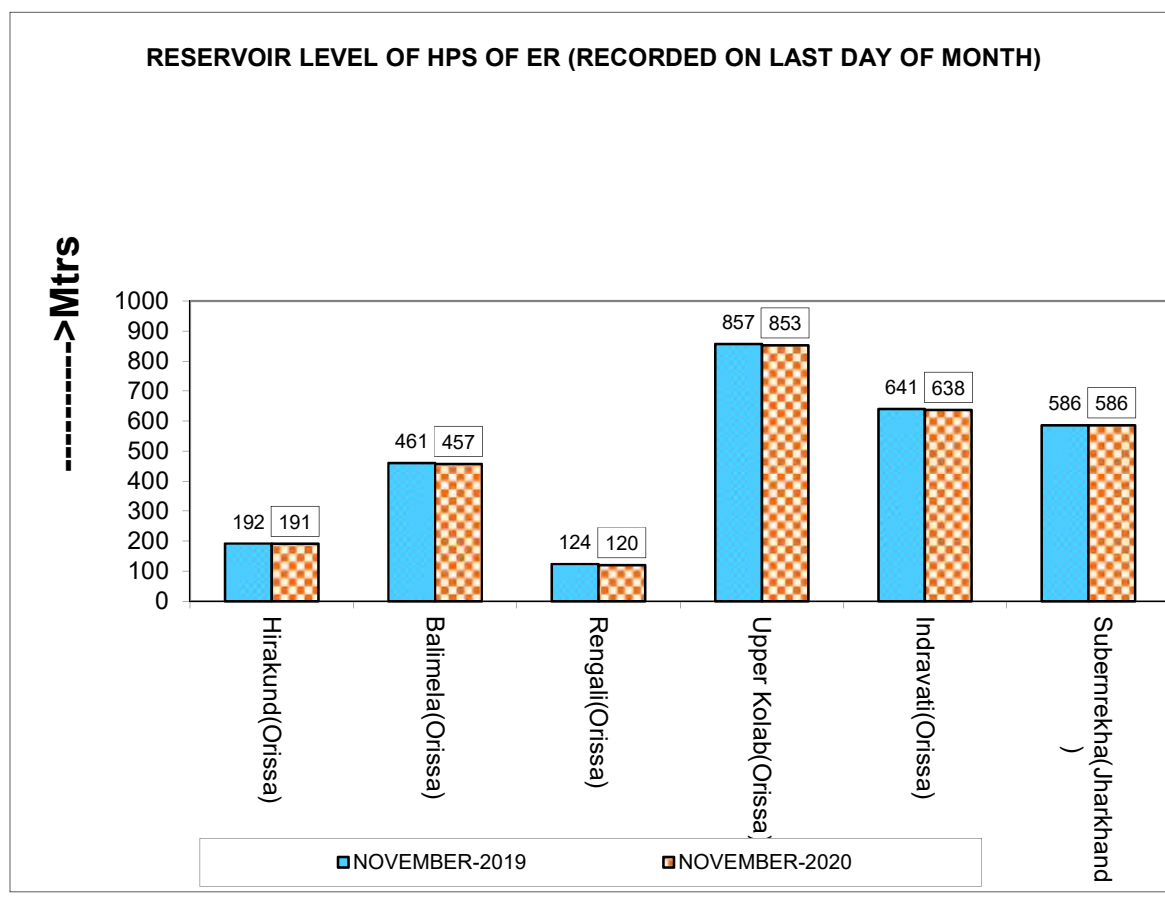
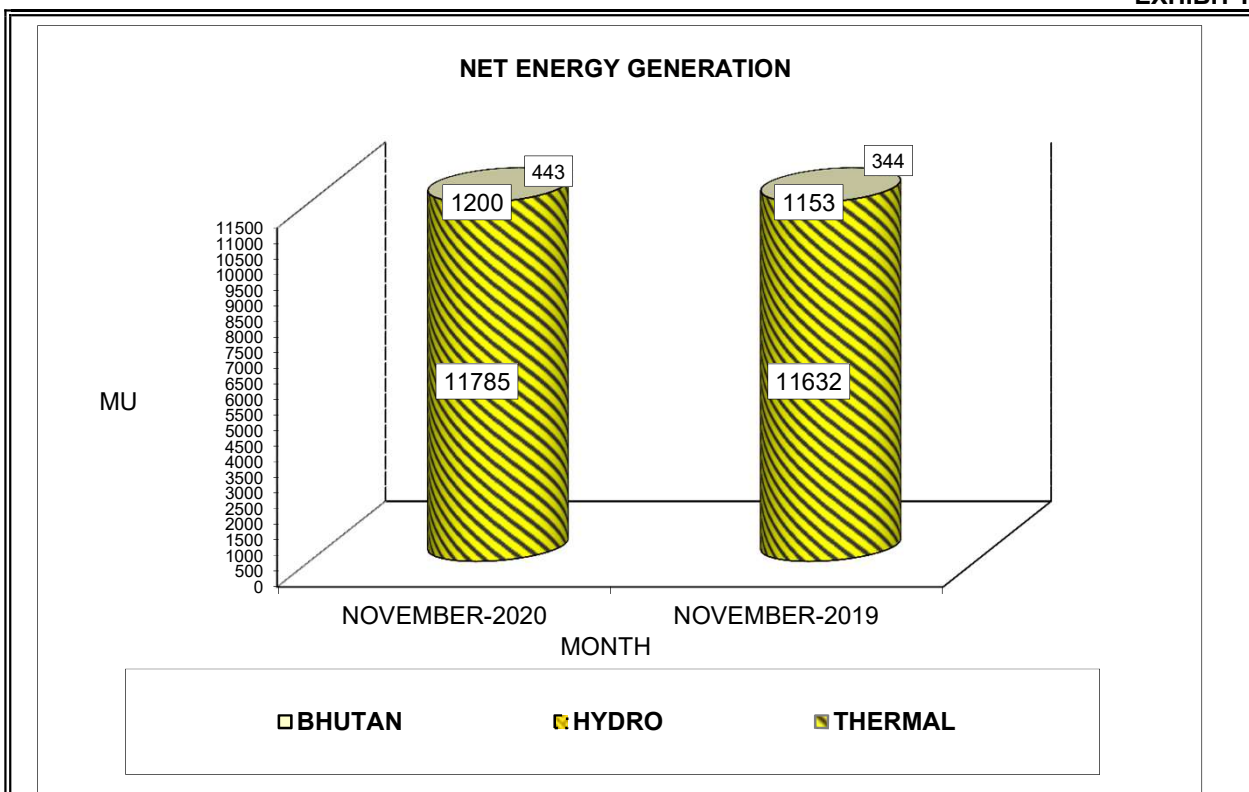
| IPP      | TPDDL  | WBSEDCL/<br>WBPDCCL | DVC   | Sale at<br>IEX/NPCL | ODISHA | JSEB | CTU/Others | Total<br>(Excl. Tr. Loss) |
|----------|--------|---------------------|-------|---------------------|--------|------|------------|---------------------------|
| MPL      | 165.21 | 109.97              | 30.35 | 0.00                | 0      | 0    | 258.85     | 564.38                    |
| Sterlite | 0      | 0                   | 0     | 0                   | 0.00   | 0    | 0.00       | 0.00                      |
| APNRL    | 0      | 0.00                | 0     | 0.00                | 0.00   | 0.00 | 0.00       | 0.00                      |
| Total    | 165.21 | 109.97              | 30.35 | 0.00                | 0.00   | 0.00 | 258.85     | 564.38                    |



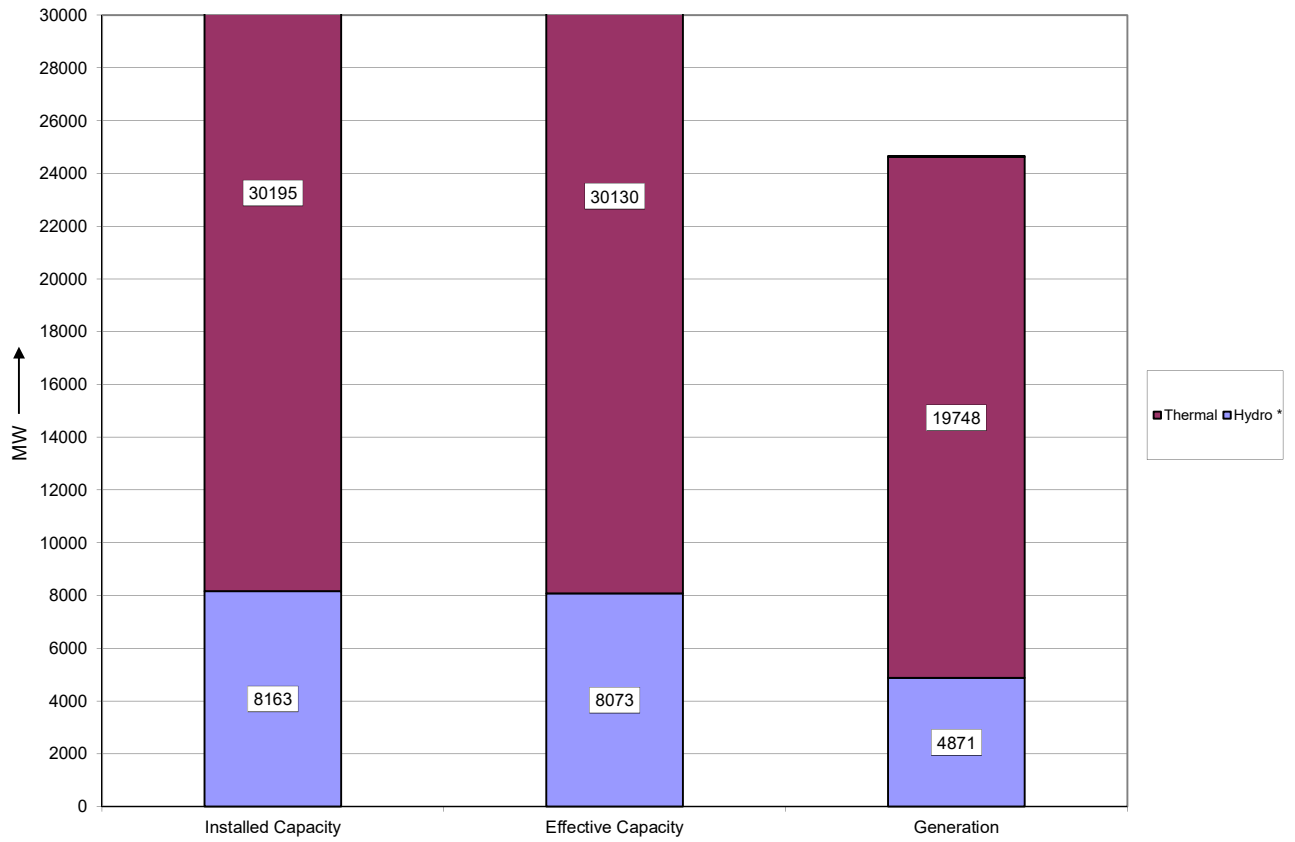
\*Excludes contribution from HEPs of Bhutan



\*Includes contribution from HEP of Bhutan

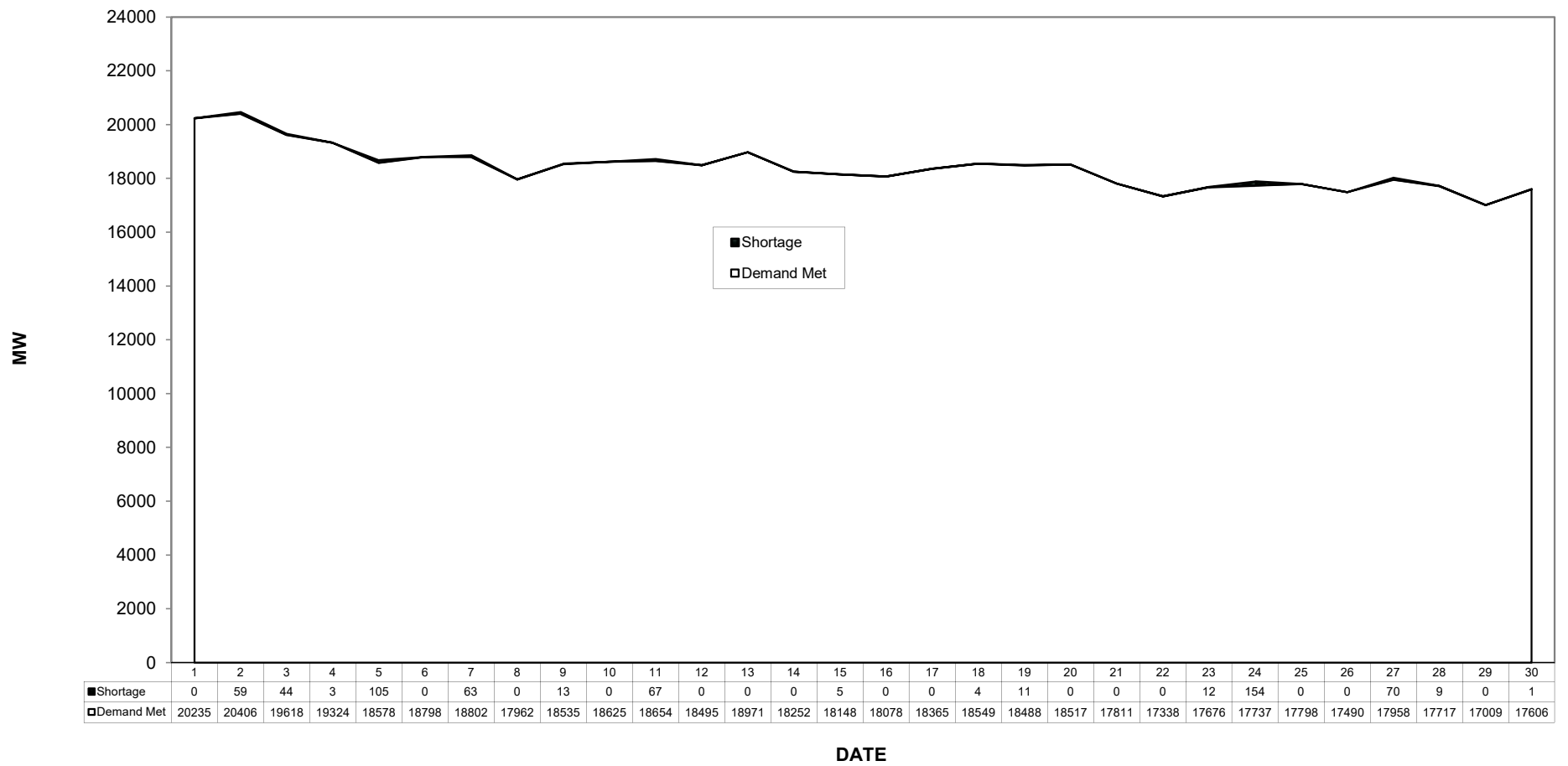


**Capacity / Actual Generation Pattern of ER on Peak Day (2-11-2020) at 19.00 hrs.**

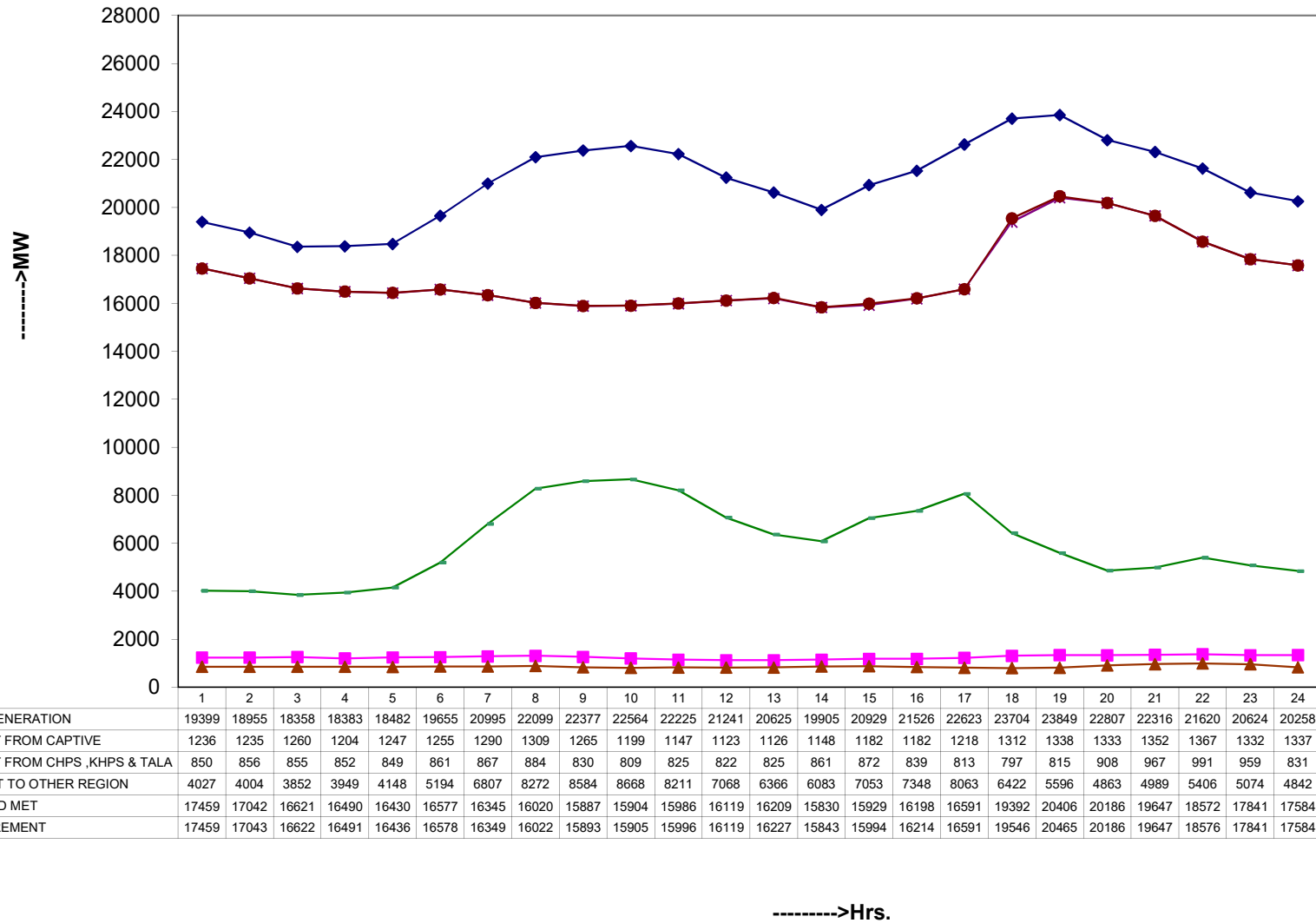


(\*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

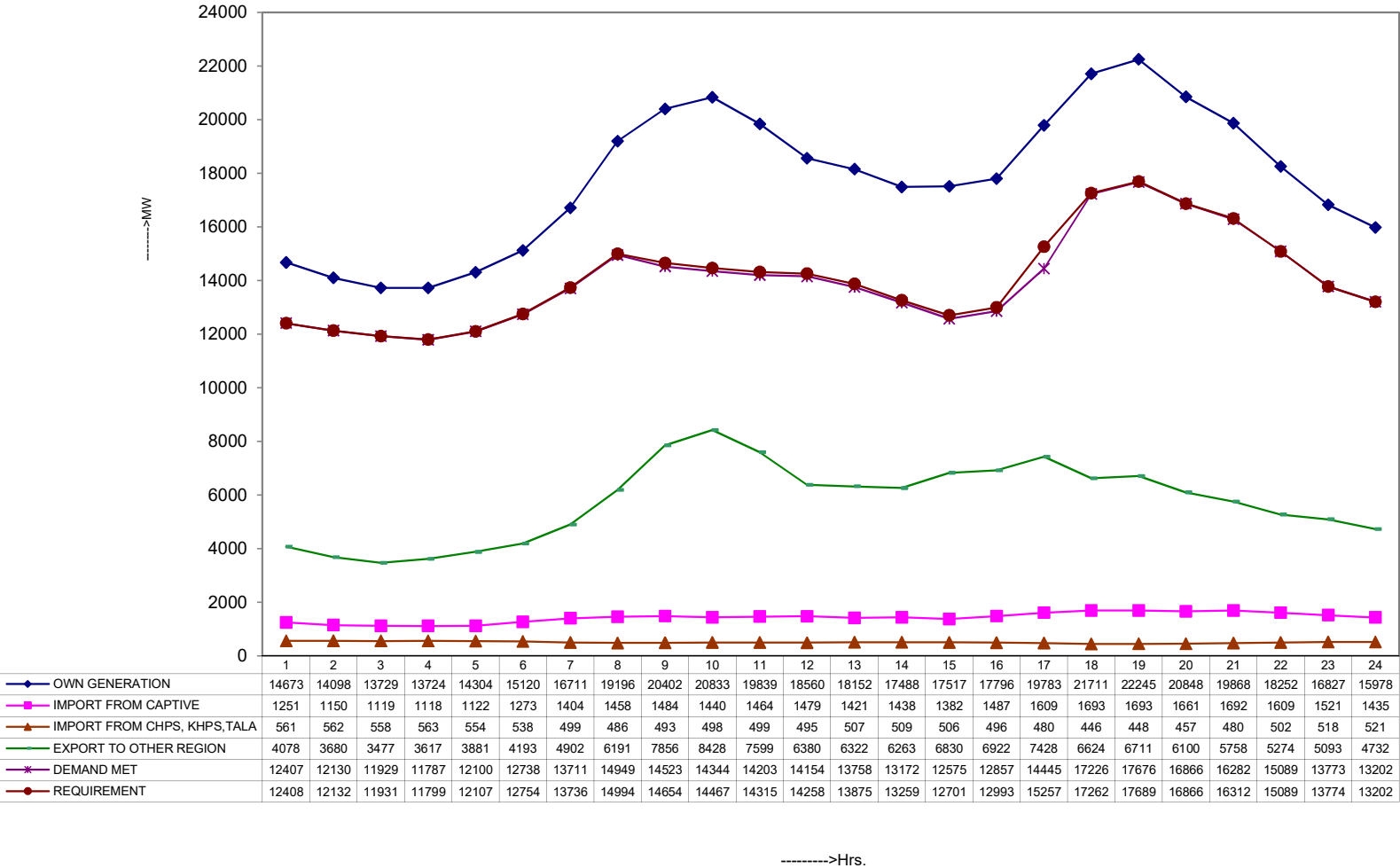
Peak Demand Met / Shortage of Eastern Region For The Month Of NOVEMBER'2020



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of NOVEMBER'2020 (2-11-2020)

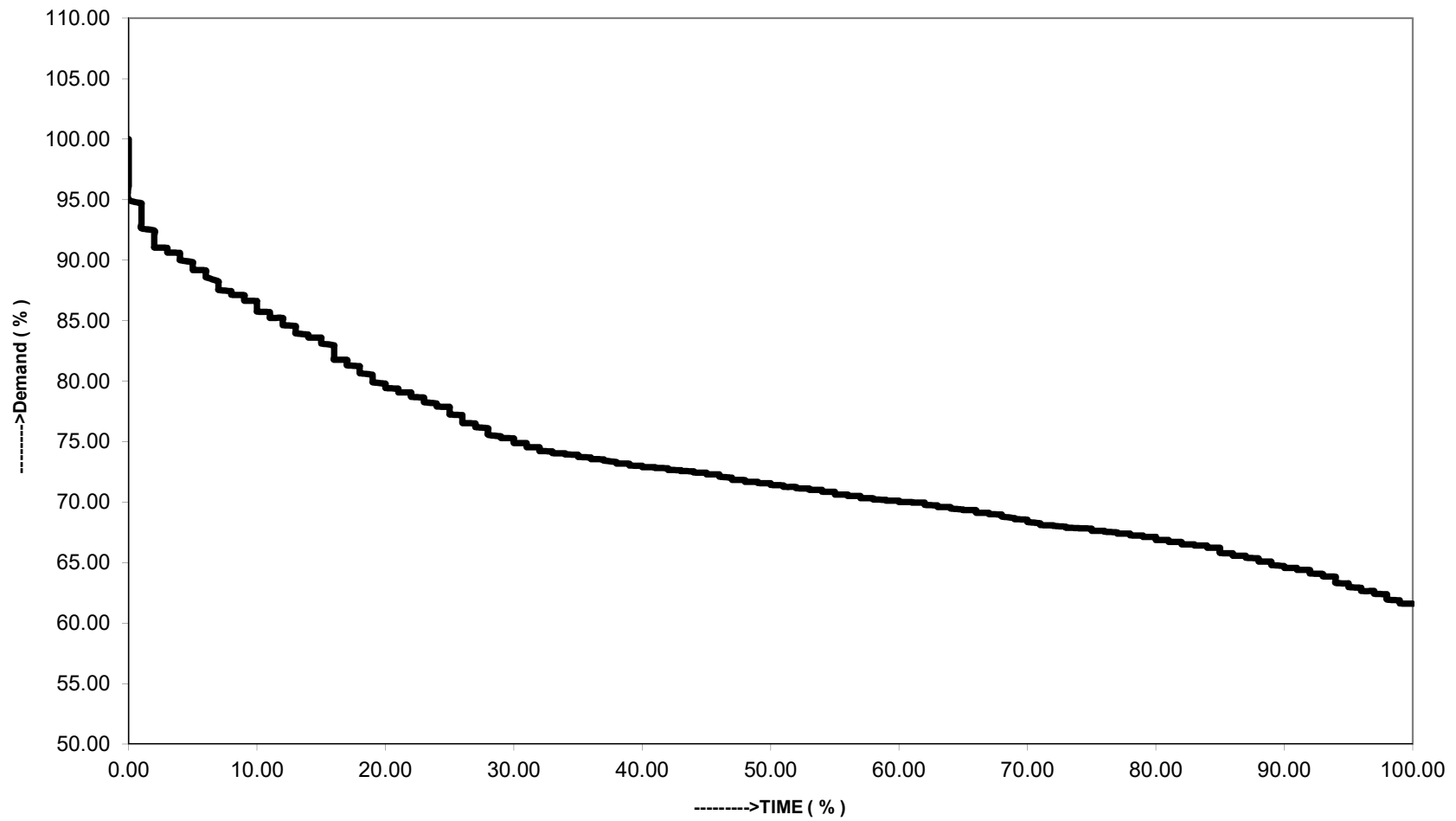


Hourly Load Generation Data of ER On Regional Lean Day During The Month of NOVEMBER'2020 (23-11-2020)



Monthly Load Duration Curve of Eastern Region for NOVEMBER-2020

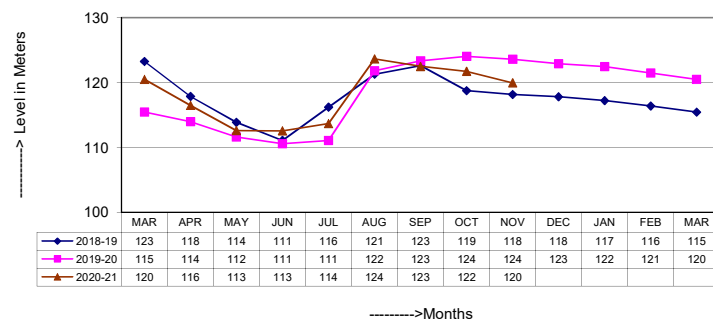
Maximum Demand met : 20406 MW  
Minimum Demand met: 11787 MW



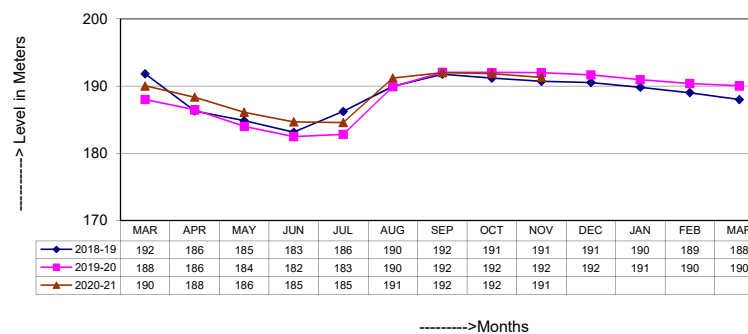


## WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

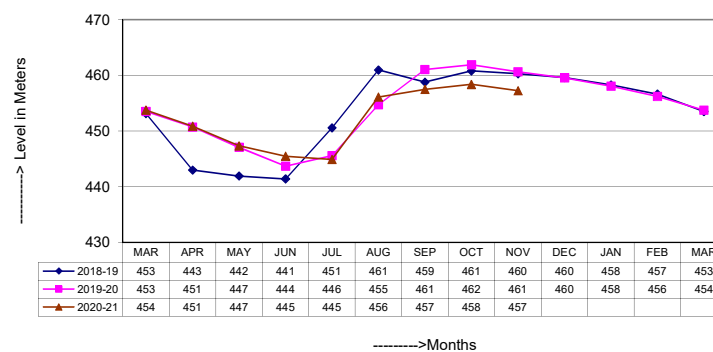
## RENGALI RESERVOIR LEVEL



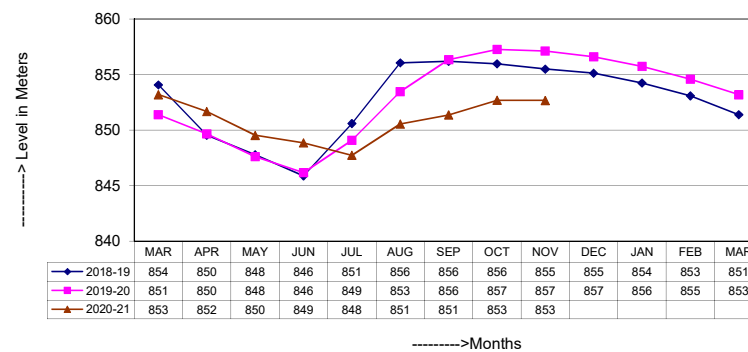
## HIRAKUD RESERVOIR LEVEL



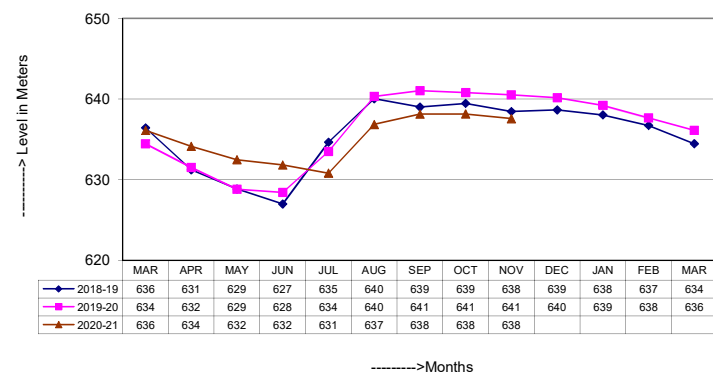
## BALIMELA RESERVOIR LEVEL



## UPPER KOLAB RESERVOIR LEVEL



## INDRAVATI RESERVOIR LEVEL



## SUBERNREKHA RESERVOIR LEVEL

