#### GOVERNMENT OF INDIA MINISTRY OF POWER

## RAJYA SABHA UNSTARRED QUESTION NO.1911 ANSWERED ON 19.12.2023

#### STATUS OF POWER GENERATION AND DEMAND SUPPLY IN THE COUNTRY

#### 1911 SHRI PARIMAL NATHWANI:

Will the Minister of **POWER** be pleased to state:

- (a) the status of power generation and demand supply in the country and the details of the sources and their capacity in total power production in the country at present; and
- (b) the sources from which carbon-free power would be generated in the next ten years and the quantum of power production fixed for these sources and the details of measures taken in this regard?

#### ANSWER

#### THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a): The Power sector has been transformed in the past few years. It was earlier power deficit. In the past nine (09) years power generation capacity of 193794 MW has been added ensuring adequate availability of power. The demand has increased rapidly; and we have met the demand. There has been 50.8% increase in energy requirement in the country as compared to 2014. The peak demand has gone up from 135918 MW in 2013-14 to 243271 MW in September 2023. This is a rise of almost 79% and the demand has been met. The gap between energy requirement and energy supplied is just 0.3% - which is because of system constraints or some DISCOMs not having funds to procure power. The gap between peak demand and peak met is just 1.4%. The average gap between Peak demand and Peak supply was 4.5 % in 2013-14 - when the demand was just 136 GW.

Details of source- wise Power Generation in the country for the past two years and current year upto October -2023 are given at **Annexure-I.** The details of All India State-wise Power Supply position for the past two years and current year upto November, 2023 are given at **Annexure-II.** 

- **(b):** According to the National Electricity Plan notified in May, 2023, installed Capacity in the country for the year 2031-32 is expected to be 900,422 MW, out of which carbon free capacity is expected to be 6,15,955 MW. Source wise details are as under:
  - 1. Nuclear- 19,680 MW
  - 2. Large Hydro-62,178 MW
  - 3. Solar-364,566 MW
  - 4. Wind-121,895 MW
  - 5. Small Hydro-5450 MW
  - 6. Biomass-15,500 MW
  - 7. Pump Storage Power-26,686 MW

In addition to this, Battery Energy Storage System capacity of 47,244 MW/236,220 MWh is also expected to be installed.

Government has set an ambitious plan to meet the NDC (Nationally Determined Contribution) under COP-Paris Agreement of reducing the emissions intensity of its GDP by 45% by 2030 from 2005 level and achieving 50% of electric power installed capacity from non-fossil fuel by 2030.

We have taken several measures to promote development of Renewable Energy (RE) Projects in the country which, inter-alia, include the following:

- 1. Permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route;
- 2. Waiver of Inter State Transmission System (ISTS) charges for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025,
- 3. Declaration of trajectory for Renewable Purchase Obligation (RPO) up to the year 2029-30;
- 4. Setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to RE developers for installation of RE projects at large scale;
- 5. Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II;
- 6. Laying of new transmission lines and creating new sub-station capacity under the Green Energy Corridor Scheme for evacuation of renewable power;
- 7. Notification of standards for deployment of solar photovoltaic system/devices;
- 8. Setting up of Project Development Cell for attracting and facilitating investments;
- 9. Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar PV and Wind Projects;
- 10. Government has issued orders that power shall be dispatched against Letter of Credit (LC) or advance payment to ensure timely payment by distribution licensees to RE generators;
- 11. Notification of Promoting Renewable Energy through Green Energy Open Access Rules 2022;
- 12. Launch of Green Term Ahead Market (GTAM) to facilitate sale of Renewable Energy Power through exchanges;
- 13. National Green Hydrogen Mission launched with an aim to make India a global hub for production, utilization and export of Green Hydrogen and its derivatives; and,
- 14. Notification of prescribed trajectory for RE power bids to be issued by Renewable Energy Implementation Agencies from FY 2023-24 to FY 2027-28. Under the trajectory, 50 GW/annum of RE bids to be issued.

Further, we have taken a number of policy initiatives, to boost the production of the hydropower in the country including the following:

- 1. Declaring Large Hydro Power (LHPs) (> 25 MW projects) as Renewable Energy source.
- 2. Hydro Purchase Obligation (HPO) as a separate entity. The HPO trajectory, for the period 2021-22 to 2029-30 has also been notified by the Govt. on 29.01.2021.
- 3. Tariff rationalization measures for bringing down hydro power tariff.
- 4. Budgetary Support for Flood Moderation/Storage Hydro Electric Projects (HEPs).
- 5. Budgetary Support to Cost of Enabling Infrastructure, i.e. roads/bridges.
  - a) Rs. 1.5 crore per MW for projects upto 200 MW.
  - b) Rs. 1.0 crore per MW for projects above 200 MW.

Besides above, we have also taken following initiatives:

- 1. Waiver of ISTS Charges on the transmission of power from new Hydro Power Projects, for which construction work is awarded and PPA is signed on or before 30.06.2025. Subsequently, part waiver of ISTS charges, in steps of 25% from 01.07.2025 to 01.07.2028, have been extended for HEPs for which construction work is awarded and PPA is signed up to 30.06.2028.
- 2. Waiver of ISTS charges has been inter-alia extended to Pumped Storage Projects for which construction work is awarded up to 30.06.2025, subject to certain conditions. Subsequently, part waiver of ISTS charges, in steps of 25% from 01.07.2025 to 01.07.2028, have been extended for PSPs for which construction work is awarded up to 30.06.2028.
- 3. Guidelines to promote development of Pumped Storage Projects issued on 10.04.2023.
- 4. Measures to reduce time and cost overrun in hydro-electric projects have been notified by MoP on 8-11-2019.
- 5. Dispute Avoidance Mechanism for avoidance and resolution of contractual disputes of contracts executed by hydro CPSUs at initial stage by engagement of an Independent Engineer has been devised on 27.09.2021.
- 6. Dispute Resolution Mechanism for resolution of disputes of contracts executed by CPSUs / other organizations under MoP through Conciliation Committees has been devised on 29.12.2021.

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### **ANNEXURE-I**

# ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1911 ANSWERED IN THE RAJYA SABHA ON 19.12.2023

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Details of source- wise Power Generation in the country for the past 2 years and current year upto October -2023.

|  |                   | Monitored       | Generatio      | n (MU)   |
|--|-------------------|-----------------|----------------|----------|
|  |                   | Capacity as on  | 2023-24 (upto- |          |
| CATEGORY                               | Fuel              | 31.10.2023 (MW) | October 23)    | 2022-23  |
|  | COAL              | 207045.5        | 732309.61      | 1145908  |
|  | DIESEL            | 589.201         | 232.56         | 229.71   |
| THERMAL                                | HIGH SPEED DIESEL | 255             | 0              | 0        |
| THERMAL                                | LIGNITE           | 6620            | 18744.69       | 36188.34 |
|  | NAPTHA            | 701.58          | 0              | 0.83     |
|  | NATURAL GAS       | 24071.629       | 20342.18       | 23884.21 |
| NUCLEAR                                | NUCLEAR           | 7480            | 27562.06       | 45861.09 |
| HYDRO                                  | HYDRO             | 46850.17        | 101969.37      | 162098.8 |
| BHUTAN IMP                             | HYDRO             | -               | 4644           | 6742.4   |
| Sub-Total                              |                   | 293613.08       | 905804.47      | 1420913  |
| RENEWABLE (Solar, Wind, Biomass, Small |                   |                 |                |          |
| Hy., Others)                           |                   | 132132.44       | 141634.57      | 203552.7 |
| Grand Total                            |                   | 425745.52       | 1047439.04     | 1624466  |

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## ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1911 ANSWERED IN THE RAJYA SABHA ON 19.12.2023

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| Power Supply Position for 2021-22 (Revised) |   |                         |            |     |         |         |          |        |  |  |
|---|---|-------------------------|------------|-----|---------|---------|----------|--------|--|--|
|   | Energy Peak April,2021 - March,2022 April,2021 - March,2022 |                         |            |     |         |         |          |        |  |  |
| State /                                     |   | April,2021 - March,2022 |            |     |         |         |          |        |  |  |
| System /                                    | Energy  | Energy Supplied         | Energy not |     | Peak    | Peak    | Demand n | ot Met |  |  |
| Region                                      | Requirement   | Energy Supplied         | Supp       |     | Demand  | Met     |          | ot Mct |  |  |
| Ü   | (MU)  | (MU)                    | (MU)       | (%) | ( MW )  | (MW)    | (MW)     | (%)    |  |  |
| Chandigarh                                  | 1,606   | 1,606                   | 0          | 0.0 | 426     | 426     | 0        | 0.0    |  |  |
| Delhi                                       | 31,128  | 31,122                  | 6          | 0.0 | 7,323   | 7,323   | 0        | 0.0    |  |  |
| Haryana                                     | 55,499  | 55,209                  | 290        | 0.5 | 12,120  | 12,120  | 0        | 0.0    |  |  |
| Himachal Pradesh                            | 12,115  | 12,088                  | 27         | 0.2 | 2,030   | 2,030   | 0        | 0.0    |  |  |
| UT of J&K and                               | 19,957  | 18,434                  | 1,524      | 7.6 | 3,076   | 2,826   | 250      | 8.1    |  |  |
| Ladakh                                      | •   | ·                       |            |     | · ·     | ·       |          |        |  |  |
| Punjab                                      | 62,846  | 62,411                  | 436        | 0.7 | 13,556  | 13,431  | 125      | 0.9    |  |  |
| Rajasthan                                   | 89,814  | 89,310                  | 504        | 0.6 | 15,784  | 15,784  | 0        | 0.0    |  |  |
| Uttar Pradesh                               | 129,448   | 128,310                 | 1,138      | 0.9 | 24,965  | 24,795  | 170      | 0.7    |  |  |
| Uttarakhand                                 | 15,521  | 15,426                  | 94         | 0.6 | 2,468   | 2,468   | 0        | 0.0    |  |  |
| Northern Region                             | 417,934   | 413,915                 | 4,019      | 1.0 | 73,305  | 72,935  | 370      | 0.5    |  |  |
| Chhattisgarh                                | 31,908  | 31,872                  | 35         | 0.1 | 5,019   | 5,014   | 5        | 0.1    |  |  |
| Gujarat                                     | 123,953   | 123,666                 | 287        | 0.2 | 19,451  | 19,431  | 20       | 0.1    |  |  |
| Madhya Pradesh                              | 86,501  | 86,455                  | 46         | 0.1 | 15,917  | 15,917  | 0        | 0.0    |  |  |
| Maharashtra                                 | 172,823   | 172,809                 | 14         | 0.0 | 28,075  | 28,016  | 59       | 0.2    |  |  |
| Daman & Diu                                 | 2,594   | 2,594                   | 0          | 0.0 | 371     | 369     | 2        | 0.4    |  |  |
| Dadra & Nagar                               | 6,839   | 6,839                   | 0          | 0.0 | 891     | 888     | 3        | 0.3    |  |  |
| Haveli                                      | 0,039   | •                       | U          | 0.0 |         |         |          | 0.5    |  |  |
| Goa   | 4,448   | 4,448                   | 0          | 0.0 | 703     | 701     | 2        | 0.3    |  |  |
| Western Region                              | 429,065   | 428,683                 | 383        | 0.1 | 65,433  | 65,205  | 228      | 0.3    |  |  |
| Andhra Pradesh                              | 68,413  | 68,219                  | 194        | 0.3 | 12,551  | 12,032  | 519      | 4.1    |  |  |
| Telangana                                   | 70,539  | 70,523                  | 16         | 0.0 | 14,163  | 14,160  | 3        | 0.0    |  |  |
| Karnataka                                   | 72,437  | 72,417                  | 20         | 0.0 | 14,830  | 14,818  | 12       | 0.1    |  |  |
| Kerala                                      | 26,579  | 26,570                  | 9          | 0.0 | 4,374   | 4,364   | 10       | 0.2    |  |  |
| Tamil Nadu                                  | 109,816   | 109,798                 | 18         | 0.0 | 16,891  | 16,891  | 0        | 0.0    |  |  |
| Puducherry                                  | 2,894   | 2,893                   | 1          | 0.0 | 469     | 467     | 2        | 0.4    |  |  |
| Lakshadweep #                               | 56  | 56                      | 0          | 0.0 | 11      | 11      | 0        | 0.0    |  |  |
| Southern Region                             | 350,678   | 350,421                 | 258        | 0.1 | 61,138  | 59,781  | 1,357    | 2.2    |  |  |
| Bihar                                       | 36,216  | 35,761                  | 455        | 1.3 | 7,154   | 6,490   | 664      | 9.3    |  |  |
| DVC   | 23,741  | 23,736                  | 4          | 0.0 | 3,355   | 3,338   | 17       | 0.5    |  |  |
| Jharkhand                                   | 11,148  | 10,590                  | 558        | 5.0 | 1,887   | 1,611   | 276      | 14.6   |  |  |
| Odisha                                      | 38,339  | 38,332                  | 7          | 0.0 | 5,643   | 5,643   | 0        | 0.0    |  |  |
| West Bengal                                 | 54,001  | 53,945                  | 57         | 0.1 | 9,089   | 9,087   | 2        | 0.0    |  |  |
| Sikkim                                      | 610   | 609                     | 0          | 0.0 | 133     | 133     | 0        | 0.0    |  |  |
| Andaman- Nicobar #                          | 335   | 327                     | 8          | 2.3 | 60      | 60      | 0        | 0.0    |  |  |
| Eastern Region                              | 164,054   | 162,973                 | 1,081      | 0.7 | 26,019  | 25,145  | 874      | 3.4    |  |  |
| Arunachal Pradesh                           | 875   | 874                     | 1          | 0.1 | 197     | 168     | 29       | 14.6   |  |  |
| Assam                                       | 10,844  | 10,825                  | 19         | 0.2 | 2,126   | 2,121   | 5        | 0.2    |  |  |
| Manipur                                     | 1,019   | 1,018                   | 1          | 0.1 | 258     | 258     | 0        | 0.0    |  |  |
| Meghalaya                                   | 2,256   | 2,243                   | 13         | 0.6 | 408     | 408     | 0        | 0.0    |  |  |
| Mizoram                                     | 656   | 644                     | 12         | 1.8 | 169     | 156     | 13       | 7.6    |  |  |
| Nagaland                                    | 852   | 851                     | 1          | 0.1 | 173     | 153     | 20       | 11.7   |  |  |
| Tripura*                                    | 1,578   | 1,578                   | 0          | 0.0 | 328     | 327     | 1        | 0.3    |  |  |
| North-Eastern                               | 18,079  | 18,033                  | 47         | 0.3 | 3,427   | 3,360   | 67       | 1.9    |  |  |
| Region                                      | <u> </u>  | ·                       |            |     | ·       | ·       |          |        |  |  |
| All India                                   | 1,379,812   | 1,374,024               | 5,787      | 0.4 | 203,014 | 200,539 | 2,475    | 1.2    |  |  |

<sup>#</sup> Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and supply.

Note: Power Supply Position Report has been compiled based on the data furnished by State Utilities/ Electricity Departments.

The MU & MW figures has been rounded off to nearest unit place.

<sup>\*</sup> Excludes the supply to Bangladesh.

|                           | Power Sup                 | ply Position f             | or 2022-2 | 23 (Revi | sed)           |                         |                   |      |  |  |
|---------------------------|---------------------------|----------------------------|-----------|----------|----------------|-------------------------|-------------------|------|--|--|
|                           | Energy                    |                            |           |          | Peak           |                         |                   |      |  |  |
| State /                   |                           | April,2022 - March,2023    |           |          |                | April,2022 - March,2023 |                   |      |  |  |
| System /                  | Energy<br>Requirem<br>ent | Requirem Supplied Supplied |           |          | Peak<br>Demand | Peak<br>Met             | Demand not<br>Met |      |  |  |
| Region                    | (MU)                      | ( MU )                     | (MU)      | (%)      | (MW)           | (MW)                    | (MW)              | (%)  |  |  |
| Chandigarh                | 1,788                     | 1,788                      | 0         | 0.0      | 407            | 407                     | 0                 | 0.0  |  |  |
| Delhi                     | 35,143                    | 35,133                     | 10        | 0.0      | 7,695          | 7,695                   | 0                 | 0.0  |  |  |
| Haryana                   | 61,451                    | 60,945                     | 506       | 0.8      | 12,768         | 12,768                  | 0                 | 0.0  |  |  |
| Himachal Pradesh          | 12,649                    | 12,542                     | 107       | 0.8      | 2,071          | 2,071                   | 0                 | 0.0  |  |  |
| UT of J&K and Ladakh      | 19,639                    | 19,322                     | 317       | 1.6      | 3,137          | 2,967                   | 170               | 5.4  |  |  |
| Punjab                    | 69,522                    | 69,220                     | 302       | 0.4      | 14,311         | 14,311                  | 0                 | 0.0  |  |  |
| Rajasthan                 | 101,801                   | 100,057                    | 1,745     | 1.7      | 17,399         | 17,206                  | 193               | 1.1  |  |  |
| Uttar Pradesh             | 144,251                   | 143,050                    | 1,201     | 0.8      | 27,369         | 26,589                  | 780               | 2.8  |  |  |
| Uttarakhand               | 15,647                    | 15,386                     | 261       | 1.7      | 2,594          | 2,594                   | 0                 | 0.0  |  |  |
| Northern Region (##)      | 463,088                   | 458,640                    | 4,449     | 1.0      | 77,337         | 76,561                  | 776               | 1.0  |  |  |
| Chhattisgarh              | 39,051                    | 38,979                     | 72        | 0.2      | 5,399          | 5,399                   | 0                 | 0.0  |  |  |
| Gujarat                   | 137,960                   | 137,916                    | 44        | 0.0      | 21,464         | 21,382                  | 82                | 0.4  |  |  |
| Madhya Pradesh            | 92,326                    | 91,969                     | 358       | 0.4      | 17,347         | 17,238                  | 109               | 0.6  |  |  |
| Maharashtra               | 186,573                   | 186,461                    | 111       | 0.1      | 30,935         | 28,846                  | 2,089             | 6.8  |  |  |
| Dadra & Nagar Haveli and  | 0.000                     | 0.060                      | 0         | 0.0      | 1 279          | 1 270                   | 0                 | 0.0  |  |  |
| Daman & Diu               | 9,960                     | 9,960                      | 0         | 0.0      | 1,278          | 1,278                   | 0                 | 0.0  |  |  |
| Goa                       | 4,674                     | 4,674                      | 0         | 0.0      | 718            | 718                     | 0                 | 0.0  |  |  |
| Western Region (##)       | 475,743                   | 475,157                    | 586       | 0.1      | 71,677         | 71,677                  | 0                 | 0.0  |  |  |
| Andhra Pradesh            | 72,302                    | 71,893                     | 410       | 0.6      | 13,167         | 12,293                  | 874               | 6.6  |  |  |
| Telangana                 | 77,832                    | 77,799                     | 34        | 0.0      | 15,497         | 15,497                  | 0                 | 0.0  |  |  |
| Karnataka                 | 75,688                    | 75,663                     | 26        | 0.0      | 15,828         | 15,828                  | 0                 | 0.0  |  |  |
| Kerala                    | 27,747                    | 27,726                     | 21        | 0.1      | 4,699          | 4,370                   | 329               | 7.0  |  |  |
| Tamil Nadu                | 114,798                   | 114,722                    | 77        | 0.1      | 17,729         | 17,729                  | 0                 | 0.0  |  |  |
| Puducherry                | 3,051                     | 3,050                      | 1         | 0.0      | 501            | 501                     | 0                 | 0.0  |  |  |
| Lakshadweep (#)           | 64                        | 64                         | 0         | 0.0      | 12             | 12                      | 0                 | 0.0  |  |  |
| Southern Region (##)      | 371,467                   | 370,900                    | 567       | 0.2      | 64,337         | 64,337                  | 0                 | 0.0  |  |  |
| Bihar                     | 39,545                    | 38,762                     | 783       | 2.0      | 7,852          | 6,631                   | 1,221             | 15.5 |  |  |
| DVC                       | 26,339                    | 26,330                     | 9         | 0.0      | 3,402          | 3,396                   | 7                 | 0.2  |  |  |
| Jharkhand                 | 13,278                    | 12,288                     | 990       | 7.5      | 2,253          | 1,918                   | 336               | 14.9 |  |  |
| Odisha                    | 42,631                    | 42,584                     | 47        | 0.1      | 6,566          | 6,391                   | 175               | 2.7  |  |  |
| West Bengal               | 60,348                    | 60,274                     | 74        | 0.1      | 10,125         | 9,900                   | 225               | 2.2  |  |  |
| Sikkim                    | 587                       | 587                        | 0         | 0.0      | 124            | 124                     | 0                 | 0.0  |  |  |
| Andaman- Nicobar (#)      | 348                       | 348                        | 0         | 0.1      | 62             | 62                      | 0                 | 0.0  |  |  |
| Eastern Region (##)       | 182,791                   | 180,888                    | 1,903     | 1.0      | 28,275         | 27,218                  | 1,057             | 3.7  |  |  |
| Arunachal Pradesh         | 915                       | 892                        | 24        | 2.6      | 167            | 167                     | 0                 | 0.0  |  |  |
| Assam                     | 11,465                    | 11,465                     | 0         | 0.0      | 2,379          | 2,376                   | 3                 | 0.1  |  |  |
| Manipur                   | 1,014                     | 1,014                      | 0         | 0.0      | 248            | 248                     | 0                 | 0.0  |  |  |
| Meghalaya                 | 2,237                     | 2,237                      | 0         | 0.0      | 404            | 404                     | 0                 | 0.0  |  |  |
| Mizoram                   | 645                       | 645                        | 0         | 0.0      | 159            | 159                     | 0                 | 0.0  |  |  |
| Nagaland                  | 926                       | 873                        | 54        | 5.8      | 168            | 167                     | 1                 | 0.5  |  |  |
| Tripura (*)               | 1,547                     | 1,547                      | 0         | 0.0      | 333            | 333                     | 0                 | 0.0  |  |  |
| North-Eastern Region (##) | 18,758                    | 18,680                     | 78        | 0.4      | 3,603          | 3,603                   | 0                 | 0.0  |  |  |
| All India                 | 1,511,847                 | 1,504,264                  | 7,583     | 0.5      | 215,888        | 207,231                 | 8,657             | 4.0  |  |  |

<sup>(#)</sup> Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and supply.

### Note:

<sup>(\*)</sup> Excludes the supply to Bangladesh.

<sup>1.</sup> Power Supply Position Report has been compiled based on the data furnished by State Utilities/ Electricity Departments. The MU & MW figures has been rounded off to nearest unit place.

<sup>2. (##)</sup> The Regional figures include data of other miscellaneous entities drawing power directly from ISTS.

| Power Supply Position for 2023-24 (Provisional) |             |                            |          |      |           |                            |            |      |  |
|---|-------------|----------------------------|----------|------|-----------|----------------------------|------------|------|--|
|   |             | Energy                     | Peak     |      |           |                            |            |      |  |
| State /   | April,2     | April,2023 - November,2023 |          |      |           | April,2023 - November,2023 |            |      |  |
| System /  | Energy      |                            |          |      | Peak Peak |                            | Demand not |      |  |
| ·   | Requirement |                            | Supplied |      | Demand    | Met                        | Met        |      |  |
| Region  | (MU)        | (MU)                       | (MU)     | (%)  | ( MW )    | (MW)                       | (MW)       | (%)  |  |
| Chandigarh                                      | 1,289       | 1,289                      | 0        | 0.0  | 411       | 411                        | 0          | 0.0  |  |
| Delhi   | 26,126      | 26,123                     | 3        | 0.0  | 7,437     | 7,437                      | 0          | 0.0  |  |
| Haryana   | 45,855      | 45,605                     | 250      | 0.5  | 13,088    | 12,844                     | 244        | 1.9  |  |
| Himachal Pradesh                                | 8,348       | 8,324                      | 24       | 0.3  | 1,977     | 1,977                      | 0          | 0.0  |  |
| UT of J&K and Ladakh                            | 12,770      | 12,577                     | 193      | 1.5  | 2,890     | 2,890                      | 0          | 0.0  |  |
| Punjab  | 51,458      | 51,453                     | 5        | 0.0  | 15,293    | 15,293                     | 0          | 0.0  |  |
| Rajasthan                                       | 69,851      | 69,352                     | 499      | 0.7  | 17,956    | 17,840                     | 116        | 0.6  |  |
| Uttar Pradesh                                   | 107,129     | 106,875                    | 254      | 0.2  | 28,704    | 28,284                     | 420        | 1.5  |  |
| Uttarakhand                                     | 10,524      | 10,444                     | 80       | 0.8  | 2,536     | 2,436                      | 100        | 3.9  |  |
| Northern Region (##)                            | 334,239     | 332,930                    | 1,309    | 0.4  | 80,980    | 80,548                     | 432        | 0.5  |  |
| Chhattisgarh                                    | 26,253      | 26,202                     | 51       | 0.2  | 5,836     | 5,832                      | 4          | 0.1  |  |
| Gujarat   | 98,536      | 98,509                     | 27       | 0.0  | 24,829    | 24,544                     | 285        | 1.1  |  |
| Madhya Pradesh                                  | 64,255      | 64,192                     | 63       | 0.1  | 17,097    | 17,097                     | 0          | 0.0  |  |
| Maharashtra                                     | 138,065     | 137,891                    | 174      | 0.1  | 31,178    | 27,996                     | 3,182      | 10.2 |  |
| Dadra & Nagar Haveli and<br>Daman & Diu         | 6,719       | 6,719                      | 0        | 0.0  | 1,327     | 1,327                      | 0          | 0.0  |  |
| Goa   | 3,413       | 3,413                      | 0        | 0.0  | 776       | 776                        | 0          | 0.0  |  |
| Western Region (##)                             | 343,422     | 343,107                    | 315      | 0.1  | 76,050    | 72,556                     | 3,494      | 4.6  |  |
| Andhra Pradesh                                  | 54,616      | 54,561                     | 55       | 0.1  | 13,028    | 13,028                     | 0          | 0.0  |  |
| Telangana                                       | 54,096      | 54,089                     | 7        | 0.0  | 15,380    | 15,370                     | 10         | 0.1  |  |
| Karnataka                                       | 59,533      | 59,382                     | 151      | 0.3  | 16,958    | 16,950                     | 8          | 0.0  |  |
| Kerala  | 20,203      | 20,199                     | 4        | 0.0  | 5,010     | 5,010                      | 0          | 0.0  |  |
| Tamil Nadu                                      | 84,230      | 84,221                     | 9        | 0.0  | 19,045    | 19,045                     | 0          | 0.0  |  |
| Puducherry                                      | 2,371       | 2,371                      | 1        | 0.0  | 524       | 524                        | 0          | 0.0  |  |
| Lakshadweep (#)                                 | 42          | 42                         | 0        | 0.0  | 12        | 12                         | 0          | 0.0  |  |
| Southern Region (##)                            | 275,083     | 274,856                    | 227      | 0.1  | 64,103    | 64,103                     | 0          | 0.0  |  |
| Bihar   | 30,448      | 29,963                     | 485      | 1.6  | 8,049     | 7,420                      | 629        | 7.8  |  |
| DVC   | 18,066      | 18,062                     | 4        | 0.0  | 3,451     | 3,451                      | 0          | 0.0  |  |
| Jharkhand                                       | 9,721       | 9,401                      | 320      | 3.3  | 2,193     | 2,020                      | 173        | 7.9  |  |
| Odisha  | 28,999      | 28,984                     | 15       | 0.1  | 6,443     | 6,443                      | 0          | 0.0  |  |
| West Bengal                                     | 48,465      | 48,403                     | 63       | 0.1  | 11,626    | 11,626                     | 0          | 0.0  |  |
| Sikkim  | 312         | 312                        | 0        | 0.0  | 106       | 106                        | 0          | 0.1  |  |
| Andaman- Nicobar (#)                            | 254         | 246                        | 9        | 3.4  | 63        | 55                         | 8          | 12.7 |  |
| Eastern Region (##)                             | 136,056     | 135,170                    | 887      | 0.7  | 30,256    | 29,299                     | 957        | 3.2  |  |
| Arunachal Pradesh                               | 646         | 646                        | 0        | 0.0  | 167       | 167                        | 0          | 0.0  |  |
| Assam   | 9,062       | 8,983                      | 78       | 0.9  | 2,413     | 2,413                      | 0          | 0.0  |  |
| Manipur   | 625         | 625                        | 0        | 0.0  | 214       | 214                        | 0          | 0.0  |  |
| Meghalaya                                       | 1,464       | 1,301                      | 164      | 11.2 | 363       | 363                        | 0          | 0.0  |  |
| Mizoram   | 424         | 424                        | 0        | 0.0  | 144       | 144                        | 0          | 0.0  |  |
| Nagaland  | 640         | 640                        | 0        | 0.0  | 174       | 174                        | 0          | 0.1  |  |
| Tripura (*)                                     | 1,219       | 1,219                      | 0        | 0.0  | 362       | 362                        | 0          | 0.0  |  |
| North-Eastern Region (##)                       | 14,086      | 13,844                     | 242      | 1.7  | 3,678     | 3,678                      | 0          | 0.0  |  |
| All India                                       | 1,102,887   | 1,099,907                  | 2,980    | 0.3  | 243,271   | 239,931                    | 3,340      | 1.4  |  |

<sup>(#)</sup> Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and supply.

#### Note:

<sup>(\*)</sup> Excludes the supply to Bangladesh.

<sup>1.</sup> Power Supply Position Report has been compiled based on the data furnished by State Utilities/ Electricity Departments. The MU & MW figures has been rounded off to nearest unit place.

<sup>2. (##)</sup> The Regional figures include data of other miscellaneous entities drawing power directly from ISTS.