

I/34757/2024



**भारत सरकार/ Government of India**  
**विद्युत मंत्रालय/ Ministry of Power**  
**केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority**  
**आर. ए. प्रभाग/ Regulatory Affairs Division**

**सेवा में/To**

1. Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi- 110001.
2. Secretary, Ministry of New & Renewable Energy, Atal Akshay Urja Bhawan, CGO Complex, Lodhi Road, New Delhi- 110003.
3. Secretary, CERC, Chanderlok Building, Janpath, New Delhi- 110001.

**विषय: फ़रवरी, 2024 माह की मार्केट मॉनिटरिंग रिपोर्ट।**

**Subject: Monthly Market Monitoring Report for the month of February, 2024.**

महोदय/ Sir,

फ़रवरी, 2024 माह के लिए केंद्रीय विद्युत प्राधिकरण द्वारा तैयार की गई मासिक मार्केट मॉनिटरिंग रिपोर्ट (MMMR) की एक प्रति सूचना और अवलोकन के लिए संलग्न है। A copy of the monthly market monitoring report (MMMR) prepared by Central Electricity Authority for the month of February, 2024 is enclosed herewith for kind information and perusal.

फ़रवरी, 2024 माह के दौरान मार्केट के संचालन की मुख्य विशेषताएं इस प्रकार रही। Key highlights of the market operation during February, 2024 are as under:

- (i) फ़रवरी, 2024 माह में देश में कुल 127,098 MU विद्युत का कारोबार किया गया, जिसमें से 60,082 MU का कारोबार अंतर्राज्यीय पारेषण प्रणाली (Inter State Transmission System) के माध्यम से किया गया था और शेष राज्य नियंत्रित उत्पादन स्टेशनों से अंतराराज्यीय पारेषण प्रणाली (Intra State Transmissions System) के माध्यम से किया गया। In the month of February, 2024 a total of 127,098 MU of electricity was transacted in the country out of which 60,082 MU was transacted through ISTS, and the remaining through state controlled generating stations through Intra State Transmissions System.
- (ii) अल्पावधि मार्केट के अंतर्गत कुल 15,297 MU का कारोबार किया गया था, जिसमें से 10,766 MU पावर एक्सचेंजों के माध्यम से कारोबार किया गया और शेष द्विपक्षीय कारोबार और विचलन (deviations) के रूप में हुआ। इस प्रकार अल्पावधि कारोबार, फ़रवरी, 2024 माह में ट्रेड की गई विद्युत की कुल मात्रा का 12.04 % था और 8.47 % पावर एक्सचेंजों के माध्यम से रहा। A total of 15,297 MU was transacted under Short Term Market, out of which 10,766 MU was transacted through Power Exchanges and remaining happened as bilateral transactions

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& deviations. Thus, the total short term trade in February, 2024 was 12.04 % of total volume of electricity traded in February, 2024 and 8.47% was through Power Exchanges.

- (iii) यदि हम अंतर्राज्यीय पारेषण प्रणाली (ISTS) के माध्यम से आपूर्ति की गई विद्युत के संबंध में इन कारोबारों की तुलना करते हैं, तो अल्पावधि कारोबार अंतर्राज्यीय पारेषण प्रणाली (ISTS) कारोबार का लगभग 25.46 % रहा, जिसमें से पावर एक्सचेंजों के माध्यम से कारोबार 17.92 % रहा। If we compare these transactions with respect to the electricity supplied through ISTS, the short term transactions constitutes about 25.46 % of ISTS transactions, out of which transaction through the power exchanges constitutes 17.92 %.

भवदीय/ Yours faithfully,

**Signed by Vikram Singh**

**Date: 01-04-2024 15:31:16**

**Reason: Approved**

( विक्रम सिंह / Vikram Singh )

मुख्य अभियंता (आर.ए.) / Chief Engineer (RA)

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6. MD & CEO, Power Exchange India Limited (PXIL), Sumer Plaza, 9th floor, Unit no - 901, Marol Maroshi Road, Andheri (East), Mumbai-400 059.
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CEA website (<https://cea.nic.in/market-monitoring-report/?lang=en>)

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सत्यमेव जयते

# मासिक मार्केट मॉनिटरिंग रिपोर्ट - फ़रवरी, 2024

## Monthly Market Monitoring Report

February, 2024



भारत सरकार/ Government of India  
विद्युत मंत्रालय/ Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority  
आर. ए. प्रभाग / Regulatory Affairs Division



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**फ़रवरी, 2024 की मासिक मार्केट  
मॉनिटरिंग रिपोर्ट का सारांश**

**Summary of Market Monitoring Report  
For the month of February, 2024**



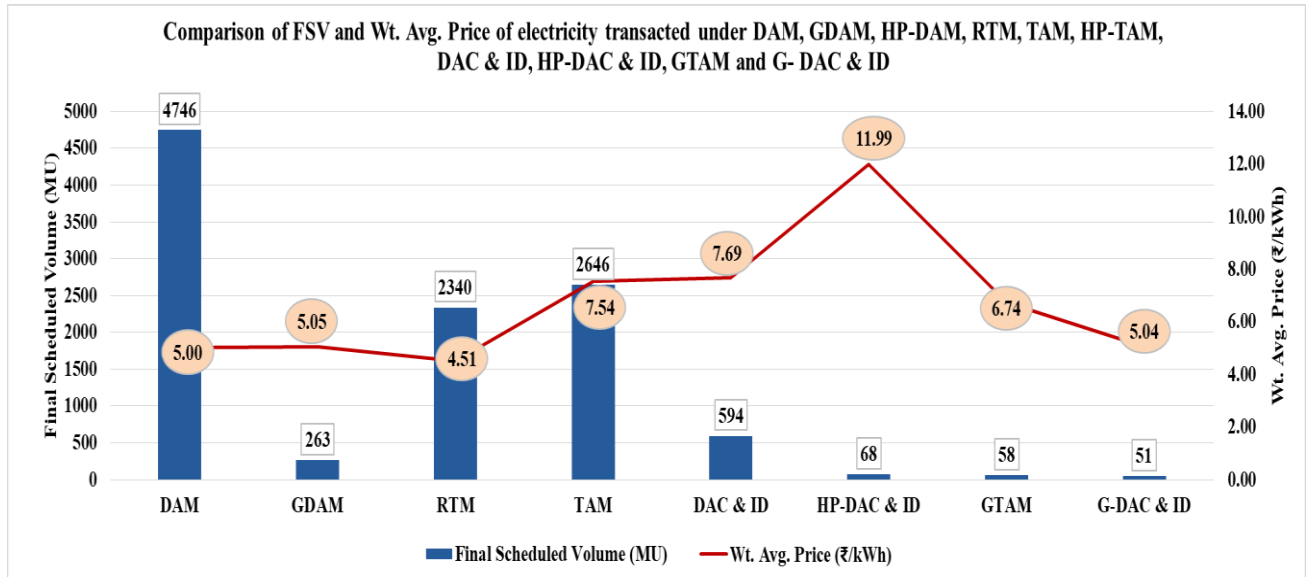
## फ़रवरी, 2024 माह के लिए सारांश Summary for Month: February, 2024

### भारत में विद्युत एक्सचेंजों पर विद्युत के व्यापार का सारांश

#### Summary of Electricity Transactions on Power Exchanges in India

➤ फ़रवरी, 2024 के दौरान विद्युत एक्सचेंजों (यानी आईईएक्स, पीएक्सआईएल और एचपीएक्स) के माध्यम से कुल **10,766 MU** विद्युत का कारोबार किया गया। विद्युत की यह मात्रा डिलीवरी की तारीख के आधार पर है और इसमें DAM, GDAM, HP-DAM, RTM, TAM, HP-TAM, DAC & ID, HP-DAC & ID, GTAM और G-DAC & ID मार्केट खंडों के माध्यम से कारोबार शामिल हैं।

A total volume of **10,766 MU** electricity was transacted through power exchanges i.e. IEX, PXIL & HPX, during the month of February, 2024. This volume of electricity is on delivery date basis and includes transactions through DAM, GDAM, HP-DAM, RTM, TAM, HP-TAM, DAC & ID, HP-DAC & ID, GTAM and G-DAC & ID market segments.

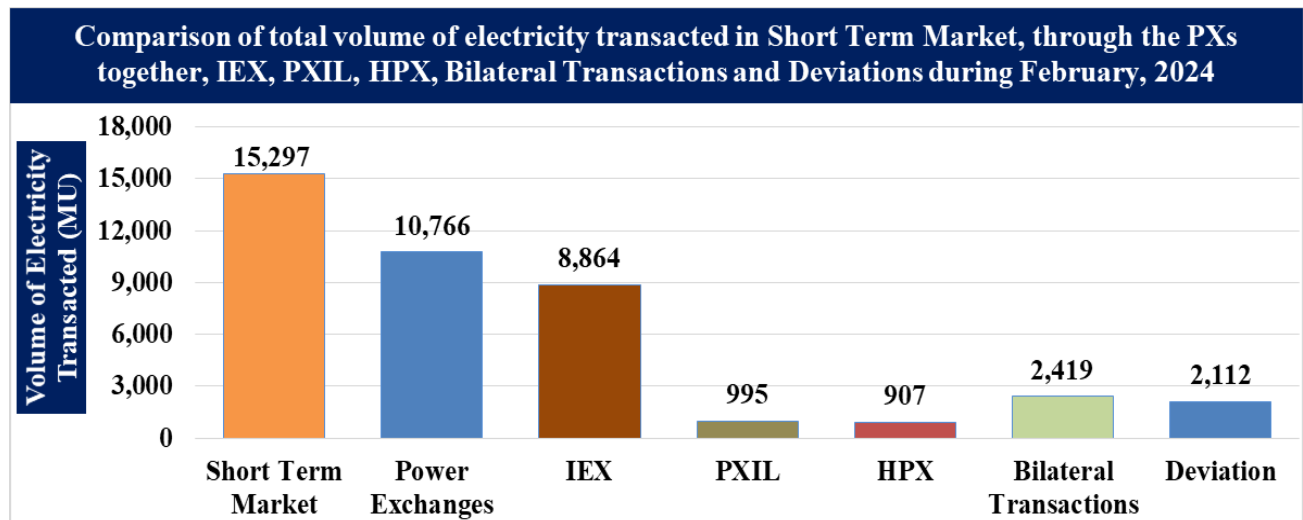


| Segment             | Transactions happened in the PXs (IEX, PXIL & HPX combined) |                      |                 |                            |
|---------------------|-------------------------------------------------------------|----------------------|-----------------|----------------------------|
|                     | FSV (MU)                                                    | Wt. Avg. MCP (₹/kWh) | Congestion (MU) | Real Time Curtailment (MU) |
| DAM                 | 4,746                                                       | 5.00                 | 0.68            | 0.00                       |
| GDAM                | 263                                                         | 5.05                 | 0.00            | 0.00                       |
| HP-DAM              | 0                                                           | -                    | 0.00            | 0.00                       |
| RTM                 | 2,340                                                       | 4.51                 | 0.00            | 0.00                       |
| TAM                 | 2,646                                                       | 7.54                 | 0.00            | 119.64                     |
| HP-TAM              | 0                                                           | -                    | 0.00            | 0.00                       |
| DAC & ID            | 594                                                         | 7.69                 | 0.00            | 4.07                       |
| HP-DAC & ID         | 68                                                          | 11.99                | 0.00            | 0.00                       |
| GTAM                | 58                                                          | 6.74                 | 0.00            | 0.00                       |
| G-DAC & ID          | 51                                                          | 5.04                 | 0.00            | 0.00                       |
| <b>Total in PXs</b> | <b>10,766</b>                                               | <b>5.72*</b>         | <b>0.68</b>     | <b>123.71</b>              |

\* The total average is weighted average of all market segments.

- द्विपक्षीय व्यापार के तहत कुल **2,419 MU** विद्युत का कारोबार किया गया और **2,112 MU** को विचलन के रूप में लेनदेन किया गया। इस प्रकार कुल **15,297 MU** विद्युत का कारोबार अल्पावधि व्यापार के रूप में किया गया था। फ़रवरी, 2024 के महीने में देश में कुल **127,098 MU** विद्युत की आपूर्ति की गई थी, इस प्रकार फ़रवरी, 2024 माह में कारोबार की गई विद्युत की कुल मात्रा में अल्पावधि बाजार का हिस्सा **12.04 %** था।

Under the Bilateral trade, a total of **2,419 MU** of electricity was transacted and **2,112 MU** was transacted as deviation. Thus, a total of **15,297 MU** of electricity was transacted as short term trade. In February, 2024, a total of **127,098 MU** of electricity was supplied in the country, thus, the share of short term market in the total volume of electricity supplied in February, 2024 was **12.04 %**.



- फ़रवरी, 2024 के दौरान संचरण जाम की कुल मात्रा **0.68 MU** थी, जो की विद्युत एक्सचेंजों में कारोबार की गई विद्युत की कुल मात्रा का केवल **0.01 %** है और फ़रवरी, 2024 के महीने के दौरान आपूर्ति की गई कुल ऊर्जा का **0.001 %** है।

The total volume of transmission congestion that happened during the month of February, 2024 was **0.68 MU** which is only **0.01 %** of the total volume of electricity transacted in the power exchanges and **0.001 %** of total energy supplied during the month of February, 2024.

DAM में 2 दिन अर्थात् दिनांक 22 एवं 23 फ़रवरी, 2024 को संचरण जाम देखा गया। जबकि GDAM, HP-DAM, RTM TAM, HP-TAM, DAC & ID, HP-DAC & ID, GTAM और G-DAC & ID में कोई संचरण जाम नहीं देखा गया। फ़रवरी, 2024 माह के महीने में रिपोर्ट की गई वास्तविक समय में विद्युत कटौती की कुल मात्रा केवल **123.71 MU** थी।

Transmission congestion observed in DAM on 2 days i.e. 22<sup>nd</sup> & 23<sup>rd</sup> February, 2024. Whereas, there was no congestion happened in GDAM, HP-DAM, RTM, TAM, HP-TAM, DAC & ID, HP-DAC & ID, GTAM and G-DAC & ID. The total volume of real time curtailment reported in the month of February, 2024 was only **123.71 MU**.

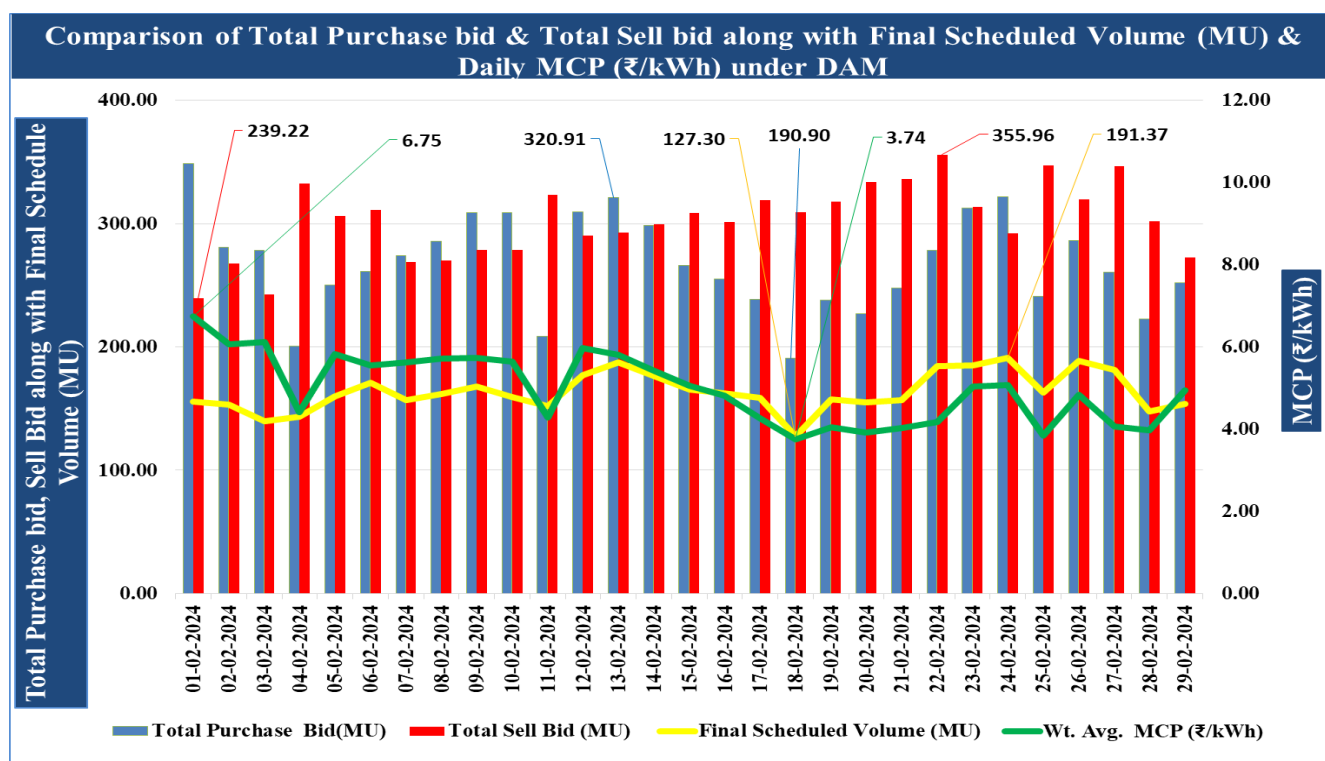
- फ़रवरी, 2024 माह के दौरान अंतर्राज्यीय पारेषण प्रणाली (ISTS) में निर्धारित अनुसूचित विद्युत की कुल मात्रा **60,082 MU** थी। फ़रवरी, 2024 के महीने में अल्पावधि बाजार में विद्युत का लेन-देन अंतर्राज्यीय पारेषण प्रणाली (ISTS) के माध्यम से अनुसूचित की गई कुल विद्युत की मात्रा का **25.46 %** रहा।

The total volume of electricity scheduled at ISTS during the month of February, 2024 was **60,082 MU**. The total volume of electricity transacted in the short term market was **25.46 %** of total volume schedule at ISTS in February, 2024.

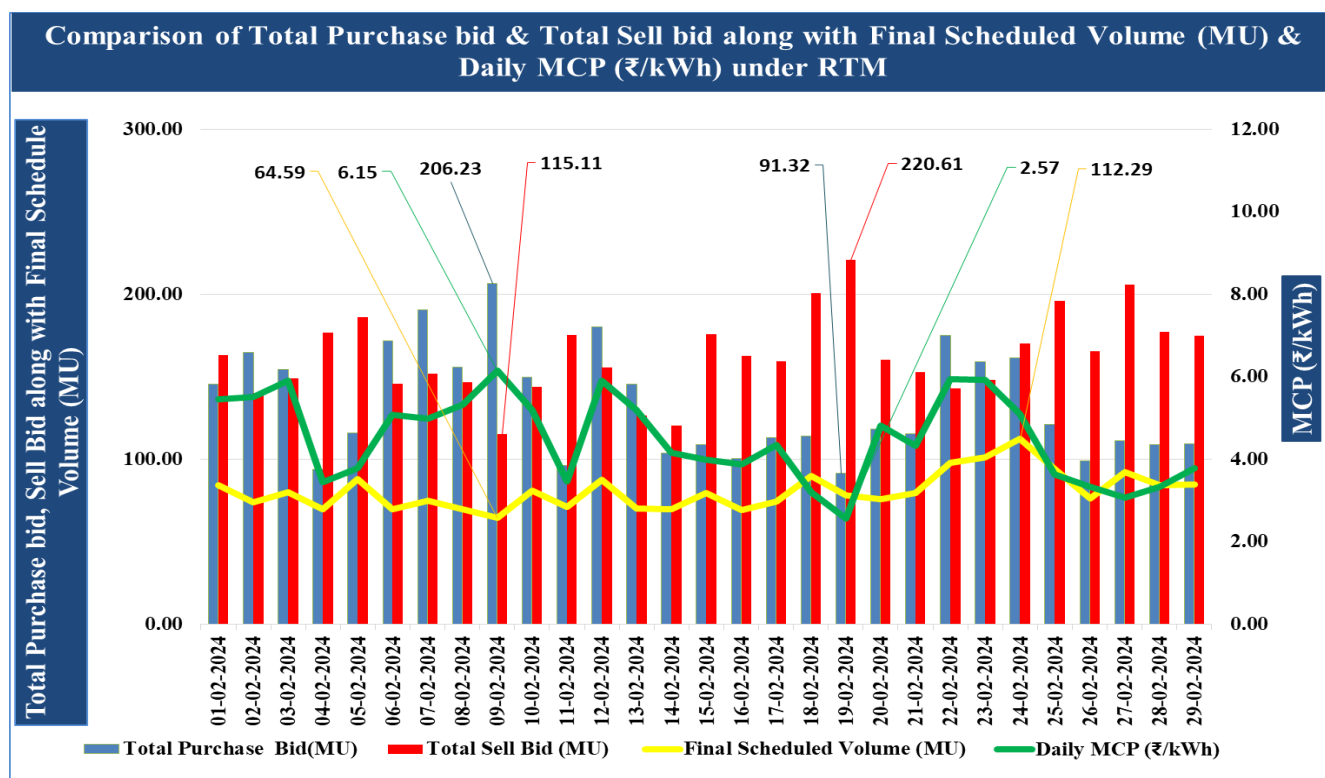
- फ़रवरी, 2024 माह के दौरान DAM और RTM में विद्युत की खरीद और बिक्री बोलियों, अंतिम अनुसूचित मात्रा और दैनिक औसत MCP की भिन्नता निम्नलिखित चित्रों में दर्शाई गई है:

The variation of Purchase and Sell bids, Final Scheduled Volume and Daily Wt. Avg. MCP under DAM and RTM during the month of February, 2024 are shown in following figures:

### DAM Volume



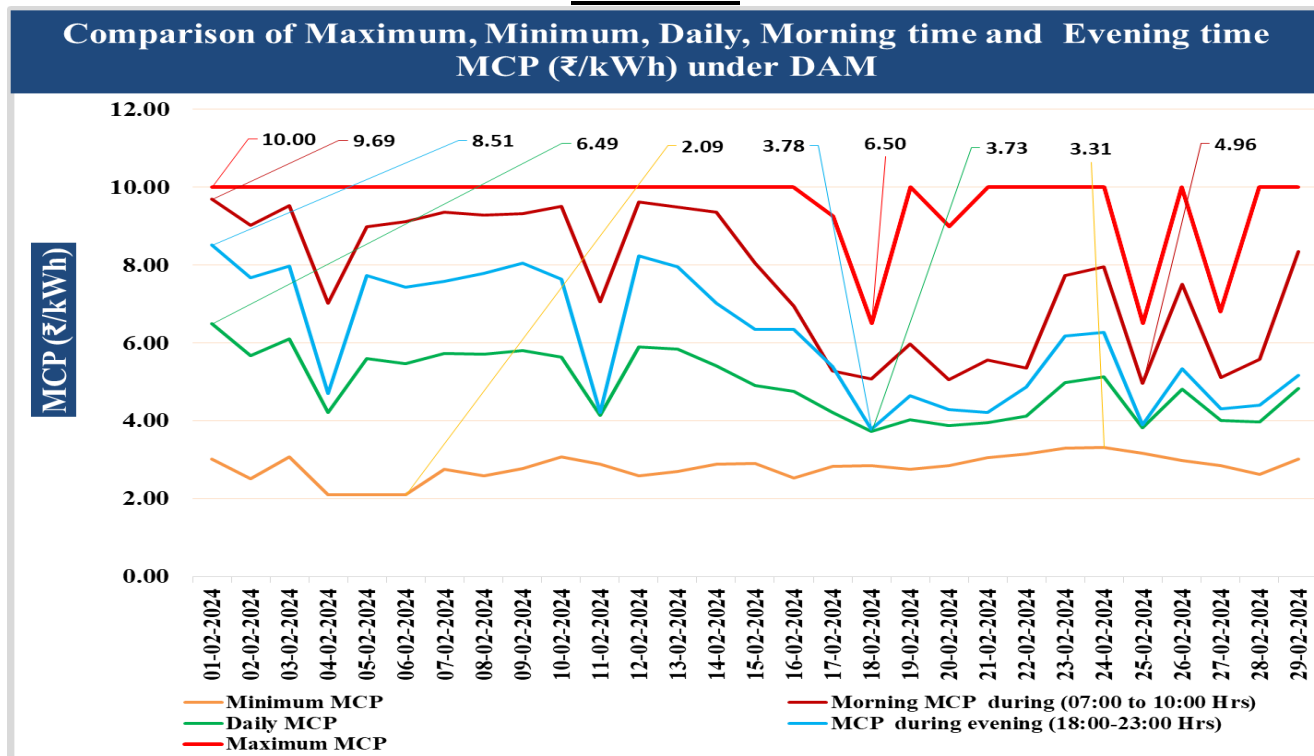
### RTM Volume



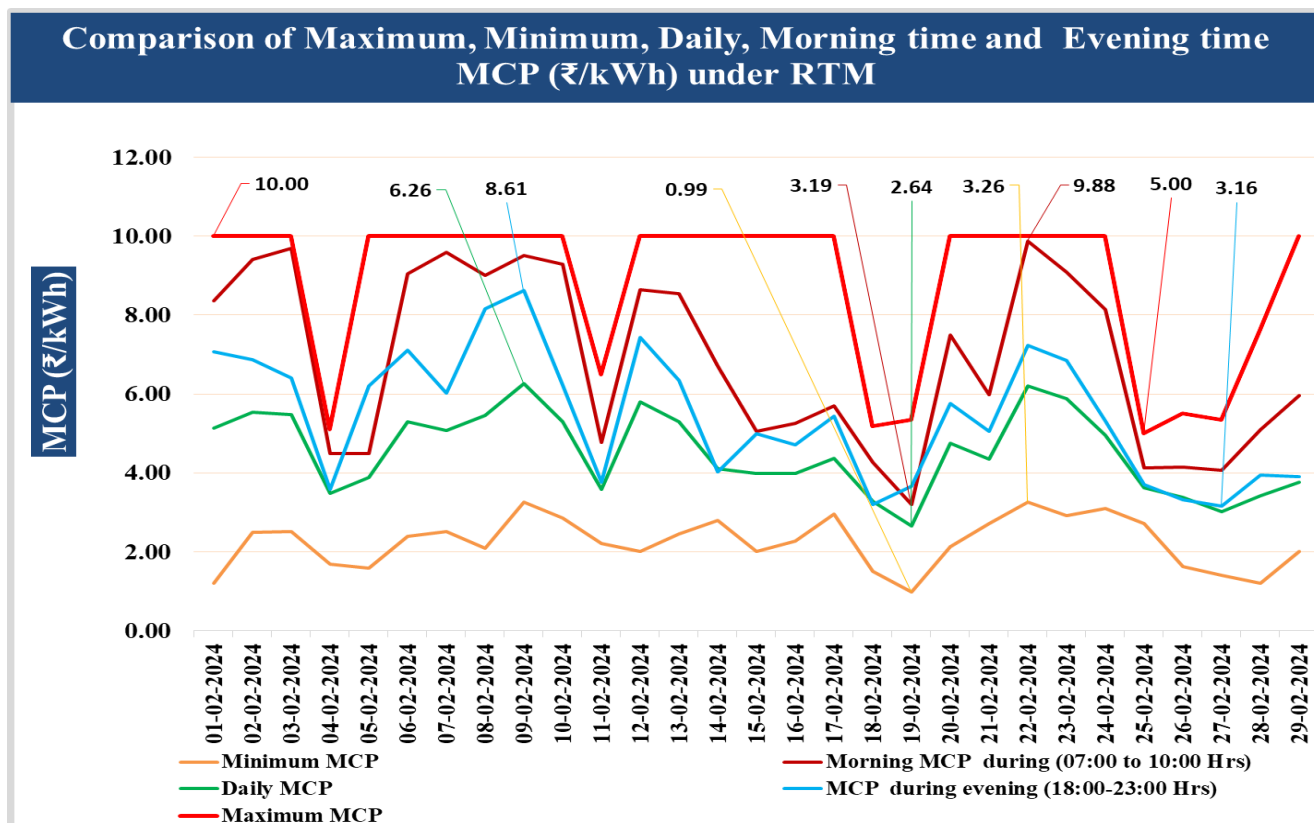
- फ़रवरी, 2024 माह के दौरान DAM और RTM में अधिकतम, न्यूनतम, दैनिक, सुबह और शाम के समय MCP की भिन्नता निम्नलिखित चित्रों में दिखाई गई है:

The variation of Maximum, Minimum, Daily, Morning and Evening time MCPs under DAM and RTM during the month of February, 2024 are shown in following figures:

### DAM Price



### RTM Prices



# **MARKET MONITORING REPORT DETAILS**

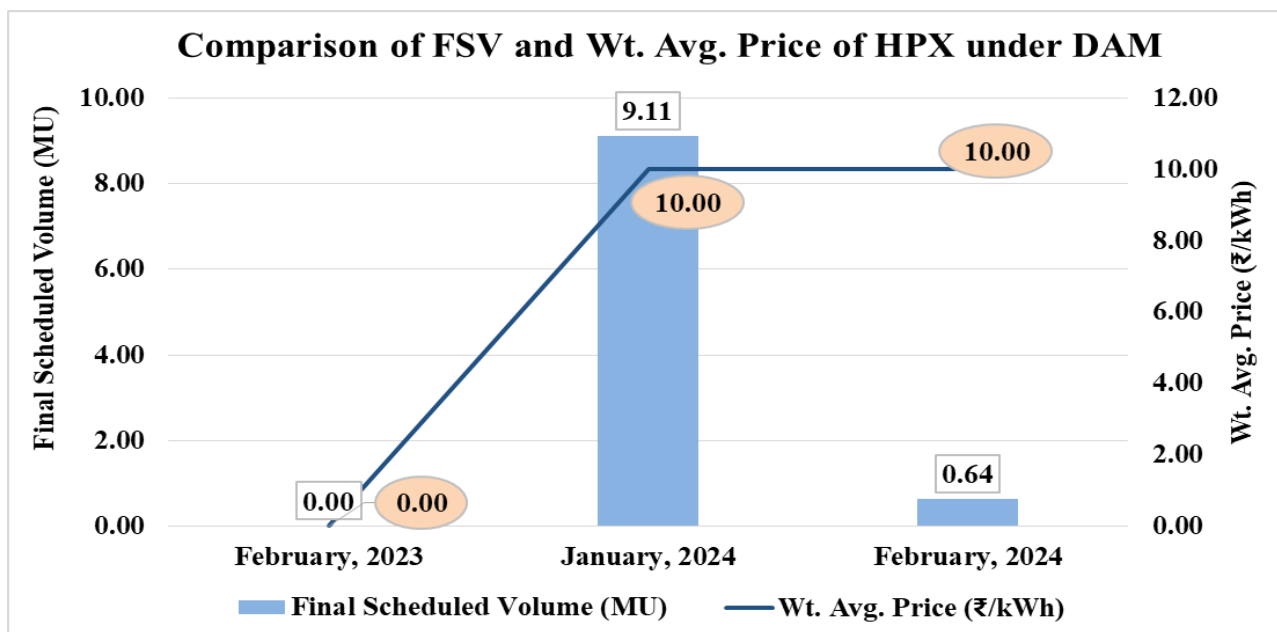
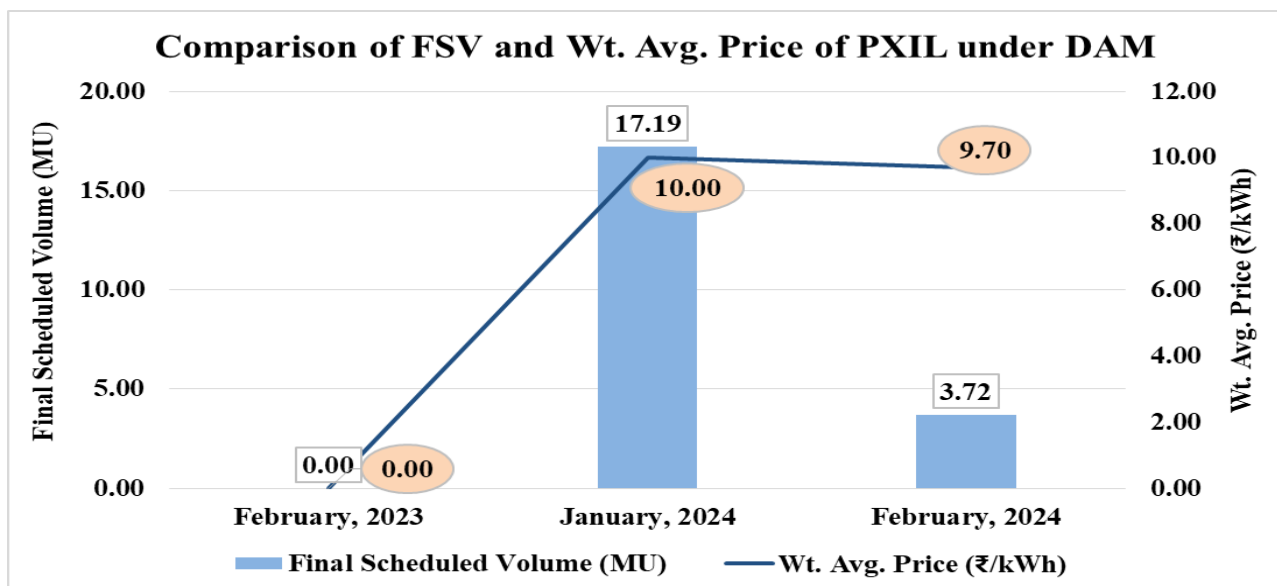
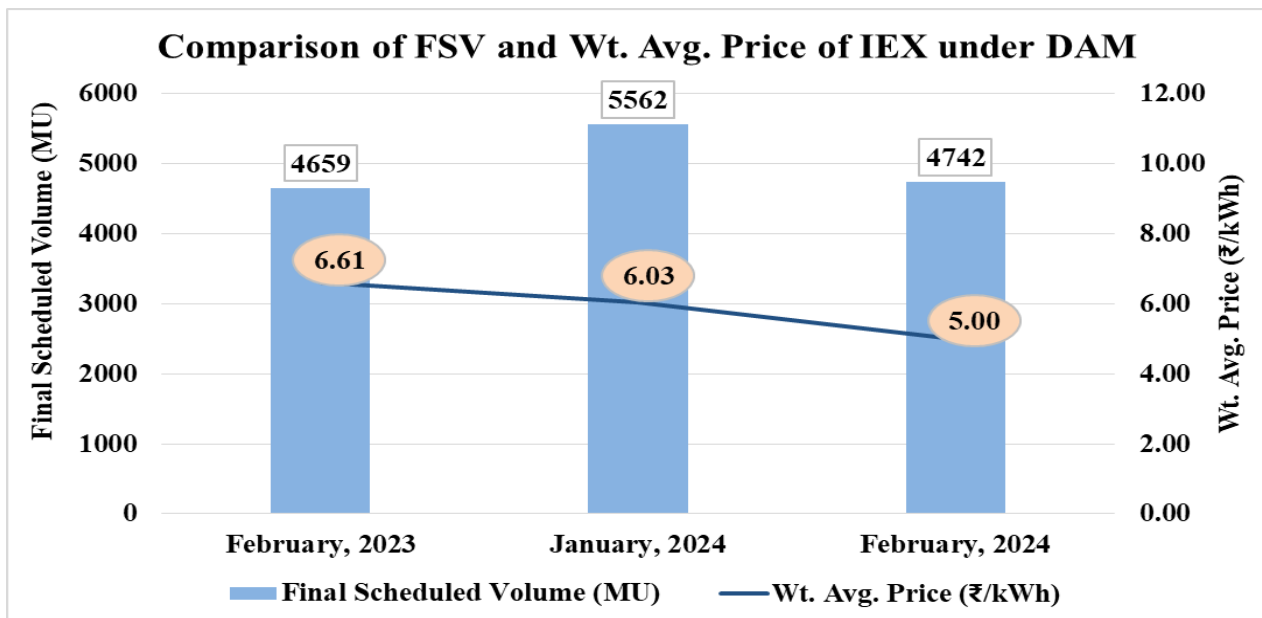


## 1. Day Ahead Market (DAM)

*The volume of electricity transacted under DAM was **4,746.11 MU** at a Wt. Avg. Price of ₹ **5.00/kWh** in February, 2024.*



- 1.1.** The total volume of electricity transacted on the power exchanges, viz., IEX, PXIL and HPX in the Day Ahead Market (DAM) in February, 2024 was **4,746.11 MU**. The total energy supplied in the country during the month of February, 2024 was 127,098 MU. Thus, the volume of electricity transacted on the power exchanges under DAM during February, 2024 was 3.73 % of the total energy supplied in the country. Comparing with the total volume of electricity transacted under DAM during last month January, 2024 i.e. **5,588.15 MU** which was 4.16 % of the total energy supplied (134,359 MU) in the country during January, 2024. Similarly, the total volume of electricity transacted under DAM during previous year i.e. February, 2023, was **4,658.76 MU** which was 3.94 % of the total energy supplied (118,292 MU) in the country during February, 2023.
- 1.2.** The volume of electricity transacted on IEX, PXIL and HPX during February, 2024 were **4741.75 MU, 3.72 MU and 0.64 MU**, respectively. The volume of electricity transacted on IEX, PXIL and HPX during January, 2024 were **5561.85 MU, 17.19 MU and 9.11 MU**, respectively. The volume of electricity transacted on IEX during February, 2023 were **4,658.76 MU** and no transaction of electricity took place in PXIL & HPX during February, 2023.
- 1.3.** The DAM volume for February, 2024 in IEX is inclusive of Cross Border Transactions of Electricity with Nepal and Bhutan (details given at **Annexure XII**), which was **617.24 MU** (i.e. 218.90 MU bought by Nepal, 338.24 MU bought by Bhutan).
- 1.4.** The Average Market Clearing Price (MCP) on IEX during the month of February, 2024 was ₹ **5.00/kWh**, which shows a decrease of 17.08 % & 24.36 % when compared with Wt. Avg. MCP's for the month of January, 2024 and February, 2023, which were ₹ **6.03/kWh** and ₹ **6.61/kWh**, respectively. On PXIL, the Wt. Avg. MCP during the month of February, 2024 was ₹ **9.70/kWh**, which shows a decrease 3.00 % when compared with Wt. Avg. MCP's for the month of January, 2024, which was ₹ **10.00/kWh** and no transaction of electricity took place in PXIL during February, 2023. On HPX, the Wt. Avg. MCP during the month of February, 2024 was ₹ **10.00/kWh**, which shows no change when compared with Wt. Avg. MCP's for the month of January, 2024, which was ₹ **10.00/kWh** and no transaction of electricity took place in HPX during February, 2023.
- 1.5.** The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under DAM for February, 2024 vs January, 2024 and February, 2023 is Shown below:



- 1.6.** The maximum Area Clearing Price (ACP) of ₹ 10.00/kWh in IEX was observed in all 13 regions during 421 time blocks on 1<sup>st</sup> to 16<sup>th</sup>, 19<sup>th</sup>, 21<sup>st</sup> to 24<sup>th</sup>, 26<sup>th</sup>, 28<sup>th</sup> & 29<sup>th</sup> February, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 10.00/kWh. Whereas, in PXIL, the maximum ACP of ₹ 10.00/kWh was observed in all 13 regions during 125 time blocks on 1<sup>st</sup> to 3<sup>rd</sup>, 5<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 13<sup>th</sup> & 14<sup>th</sup> February, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 10.00/kWh. Further, in HPX, the maximum ACP of ₹ 10.00/kWh was observed in all 13 regions during 12 time blocks on 2<sup>nd</sup> February, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 10.00/kWh.
- 1.7.** The minimum ACP of ₹ 2.09/kWh in IEX was observed in all 13 regions during the time block 04:00 - 04:15 Hrs on 6<sup>th</sup> February, 2024. As there was no congestion in transmission system, the MCP for this time-block was also ₹ 2.09/kWh. Whereas, in PXIL, the minimum ACP of ₹ 5.56/kWh was observed in all 13 regions during the time blocks 06:00-06:15, 12:30-12:45 to 16:15-16:30 & 22:15-22:30 to 22:45-23:00 Hrs on 8<sup>th</sup> February, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 5.56/kWh. Further, in HPX, the minimum ACP of ₹ 10.00/kWh was observed in all 13 regions during 12 time blocks on 2<sup>nd</sup> February, 2024.
- 1.8.** Final Scheduled Volume (FSV), Daily Avg. Market Clearing Prices (MCP), Area Clearing Prices (ACP) under Day Ahead Market during the month of February, 2024 as compared with January, 2024 and February, 2023 are shown in Table- 1A & 1B:

**(i) Final Scheduled Volume:**

| Exchange | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | February, 2024*            | 4741.75                     | 127.30             | 191.37             | 163.51            |
|          | January, 2024*             | 5561.85                     | 158.15             | 197.60             | 179.41            |
|          | %Change (Month over Month) | -14.75                      | -19.51             | -3.15              | -8.86             |
|          | February, 2023*            | 4658.76                     | 136.09             | 203.00             | 166.38            |
|          | %Change (Year over Year)   | 1.78                        | -6.46              | -5.73              | -1.72             |
| PXIL     | February, 2024             | 3.72                        | 0.15               | 0.72               | 0.41              |
|          | January, 2024              | 17.19                       | 0.04               | 2.73               | 0.82              |
|          | %Change (Month over Month) | -78.36                      | 275.00             | -73.63             | -50.00            |
|          | February, 2023             | -                           | -                  | -                  | -                 |
|          | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| HPX      | February, 2024             | 0.64                        | 0.64               | 0.64               | 0.64              |
|          | January, 2024              | 9.11                        | 0.43               | 0.88               | 0.70              |
|          | %Change (Month over Month) | -92.97                      | 48.84              | -27.27             | -8.57             |

| Exchange | Period                   | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|--------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                          | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
|          | February, 2023           | -                           | -                  | -                  | -                 |
|          | %Change (Year over Year) | NA                          | NA                 | NA                 | NA                |

-: No transaction took place

NA: Not Applicable

**\* DAM Volume in IEX is inclusive of Cross Border Transactions of Electricity with Nepal and Bhutan**

**Table: 1A**

**(ii) Daily Wt. Avg. Market Clearing Price (MCP) and Area Clearing Price (ACP):**

| Exchange | Period                     | Prices (₹/kWh)    |         |             |         |                              |
|----------|----------------------------|-------------------|---------|-------------|---------|------------------------------|
|          |                            | Daily MCP (₹/kWh) |         | ACP (₹/kWh) |         | Monthly Wt. Avg. MCP (₹/kWh) |
|          |                            | Minimum           | Maximum | Minimum     | Maximum | Average                      |
| IEX      | February, 2024             | 3.74              | 6.75    | 2.09        | 10.00   | 5.00                         |
|          | January, 2024              | 4.51              | 6.84    | 1.87        | 10.00   | 6.03                         |
|          | %Change (Month over Month) | -17.07            | -1.32   | 11.76       | 0.00    | -17.08                       |
|          | February, 2023             | 4.36              | 8.83    | 2.82        | 12.00   | 6.61                         |
|          | %Change (Year over Year)   | -14.22            | -23.56  | -25.89      | -16.67  | -24.36                       |
| PXIL     | February, 2024             | 5.67              | 10.00   | 5.56        | 10.00   | 9.70                         |
|          | January, 2024              | 9.50              | 10.00   | 9.50        | 10.00   | 10.00                        |
|          | %Change (Month over Month) | -40.32            | 0.00    | -41.47      | 0.00    | -3.00                        |
|          | February, 2023             | -                 | -       | -           | -       | -                            |
|          | %Change (Year over Year)   | NA                | NA      | NA          | NA      | NA                           |
| HPX      | February, 2024             | 10.00             | 10.00   | 10.00       | 10.00   | 10.00                        |
|          | January, 2024              | 10.00             | 10.00   | 10.00       | 10.00   | 10.00                        |
|          | %Change (Month over Month) | 0.00              | 0.00    | 0.00        | 0.00    | 0.00                         |
|          | February, 2023             | -                 | -       | -           | -       | -                            |
|          | %Change (Year over Year)   | NA                | NA      | NA          | NA      | NA                           |

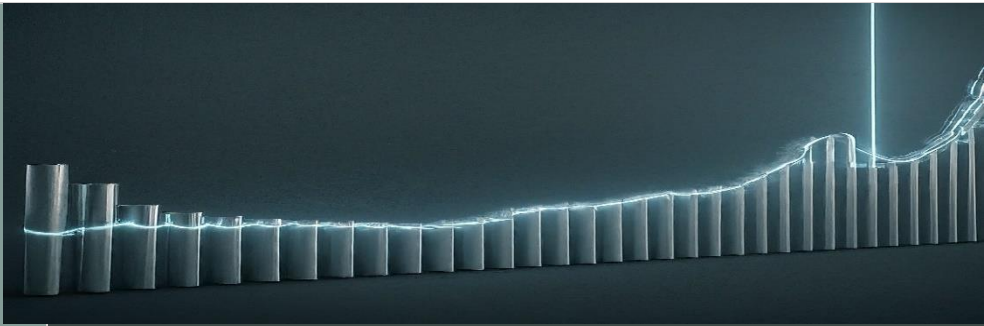
-: No transaction took place

NA: Not Applicable

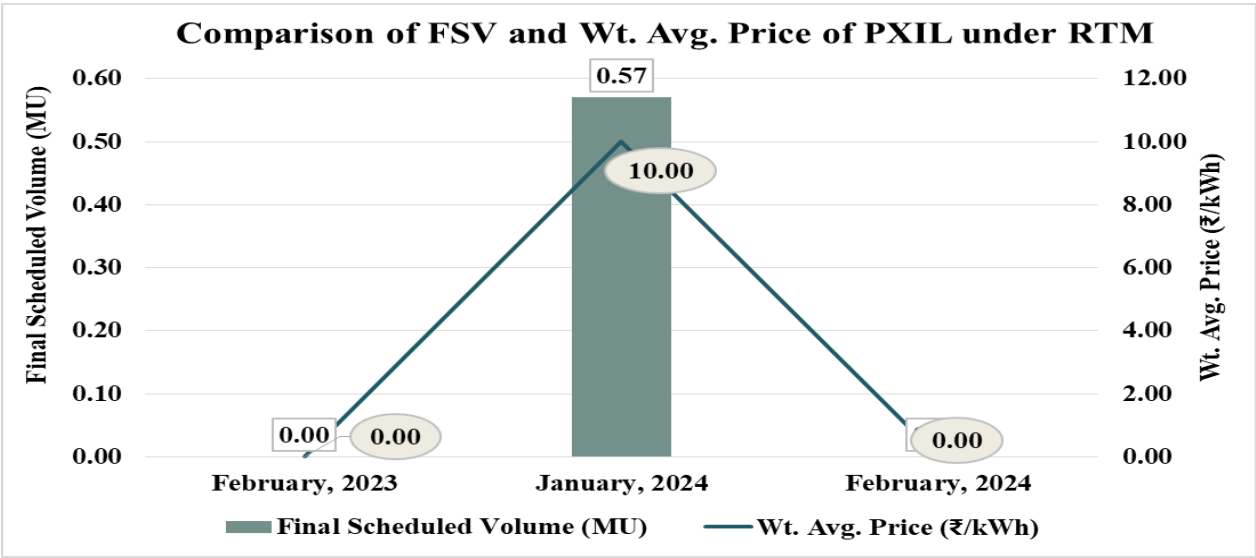
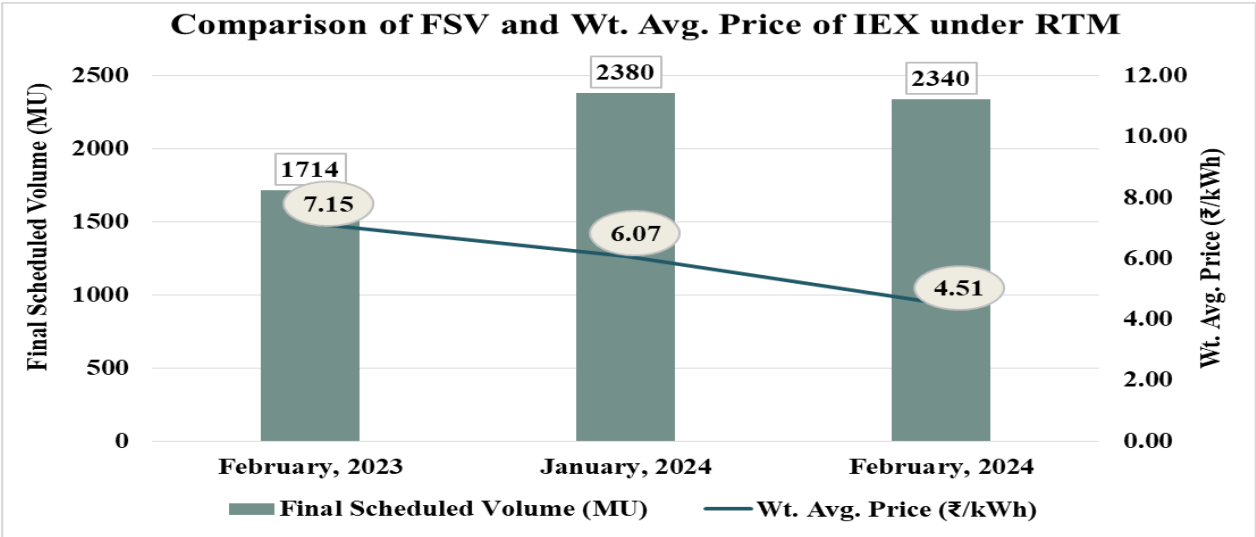
**Table: 1B**

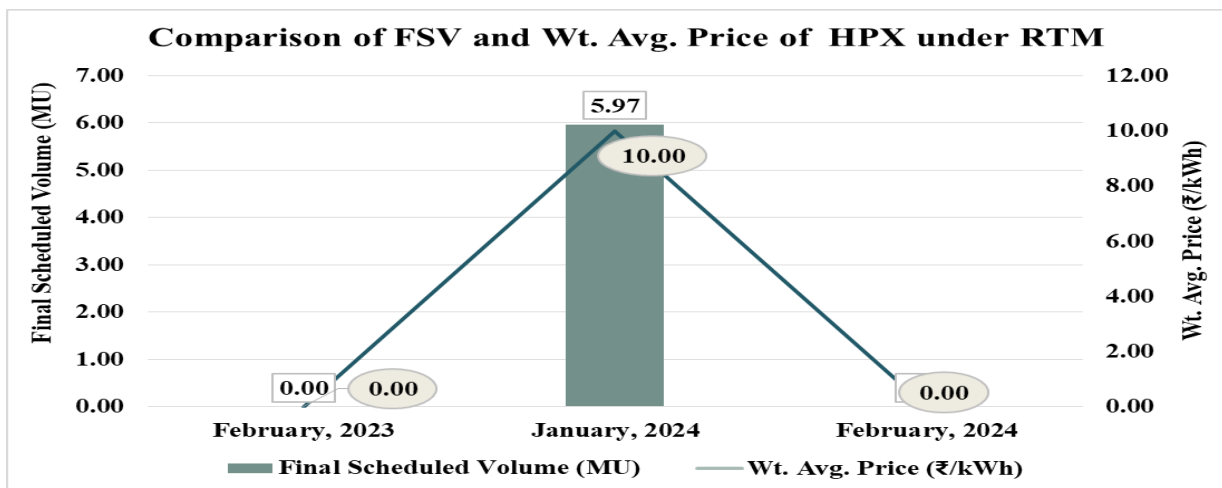
2. Real Time Market (RTM)

The volume of electricity transacted under RTM was 2,339.92 at a Wt. Avg. Price of ₹ 4.51/kWh in February, 2024.



- 2.1. The total volume of electricity transacted on the power exchanges under Real Time Market in February, 2024 was **2,339.92 MU**, out of which **2,339.92 MU** (100 %) was transacted in IEX. There was no transaction in PXIL & HPX under RTM.
- 2.2. The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under RTM for February, 2024 vs January, 2024 and February, 2023 is Shown below:





2.1. The RTM volume for February, 2024 in IEX is inclusive of Cross Border Transactions of Electricity with Nepal and Bhutan (details given at **Annexure XIII**), which was **18.26 MU** (i.e. 3.82 MU bought by Nepal, 0.53 MU sold by Nepal, 13.91 MU bought by Bhutan).

2.2. The Final Scheduled Volume (FSV), Daily Avg. Market Clearing Prices (MCP) and Area Clearing Prices (ACP) under Real Time Market during the month of February, 2024 as compared with January, 2024 and February, 2023 are shown in Table- 2A & 2B:

**(i) Final Scheduled Volume:**

| Exchange | Period                      | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                             | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | February, 2024*             | 2339.92                     | 64.59              | 112.29             | 80.69             |
|          | January, 2024*              | 2379.90                     | 56.13              | 100.01             | 76.77             |
|          | % Change (Month over Month) | -1.68                       | 15.07              | 12.28              | 5.11              |
|          | February, 2023              | 1714.05                     | 47.19              | 76.13              | 61.22             |
|          | % Change (Year over Year)   | 36.51                       | 36.87              | 47.50              | 31.80             |
| PXIL     | February, 2024              | -                           | -                  | -                  | -                 |
|          | January, 2024               | 0.57                        | 0.01               | 0.40               | 0.14              |
|          | % Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | February, 2023              | -                           | -                  | -                  | -                 |
|          | % Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| HPX      | February, 2024              | -                           | -                  | -                  | -                 |
|          | January, 2024               | 5.97                        | 0.10               | 4.04               | 0.85              |
|          | % Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | February, 2023              | -                           | -                  | -                  | -                 |
|          | % Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |

-: No transaction took place

NA: Not Applicable

**\* RTM Volume in IEX is inclusive of Cross Border Transactions of Electricity with Nepal and Bhutan**

**Table-2A**

**(ii) Daily Wt. Avg. Market Clearing Price (MCP) and Area Clearing Price (ACP):**

| Exchange | Period                      | Prices (₹/kWh)    |         |             |         |                              |
|----------|-----------------------------|-------------------|---------|-------------|---------|------------------------------|
|          |                             | Daily MCP (₹/kWh) |         | ACP (₹/kWh) |         | Monthly Wt. Avg. MCP (₹/kWh) |
|          |                             | Minimum           | Maximum | Minimum     | Maximum | Average                      |
| IEX      | February, 2024              | 2.57              | 6.15    | 0.99        | 10.00   | 4.51                         |
|          | January, 2024               | 3.47              | 7.41    | 1.30        | 10.00   | 6.07                         |
|          | % Change (Month over Month) | -25.94            | -17.00  | -23.85      | 0.00    | -25.70                       |
|          | February, 2023              | 4.31              | 9.91    | 1.00        | 12.00   | 7.15                         |
|          | % Change (Year over Year)   | -40.37            | -37.94  | -1.00       | -16.67  | -36.92                       |
| PXIL     | February, 2024              | -                 | -       | -           | -       | -                            |
|          | January, 2024               | 10.00             | 10.00   | 10.00       | 10.00   | 10.00                        |
|          | % Change (Month over Month) | NA                | NA      | NA          | NA      | NA                           |
|          | February, 2023              | -                 | -       | -           | -       | -                            |
|          | % Change (Year over Year)   | NA                | NA      | NA          | NA      | NA                           |
| HPX      | February, 2024              | -                 | -       | -           | -       | -                            |
|          | January, 2024               | 10.00             | 10.00   | 10.00       | 10.00   | 10.00                        |
|          | % Change (Month over Month) | NA                | NA      | NA          | NA      | NA                           |
|          | February, 2023              | -                 | -       | -           | -       | -                            |
|          | % Change (Year over Year)   | NA                | NA      | NA          | NA      | NA                           |

-: No transaction took place

NA: Not Applicable

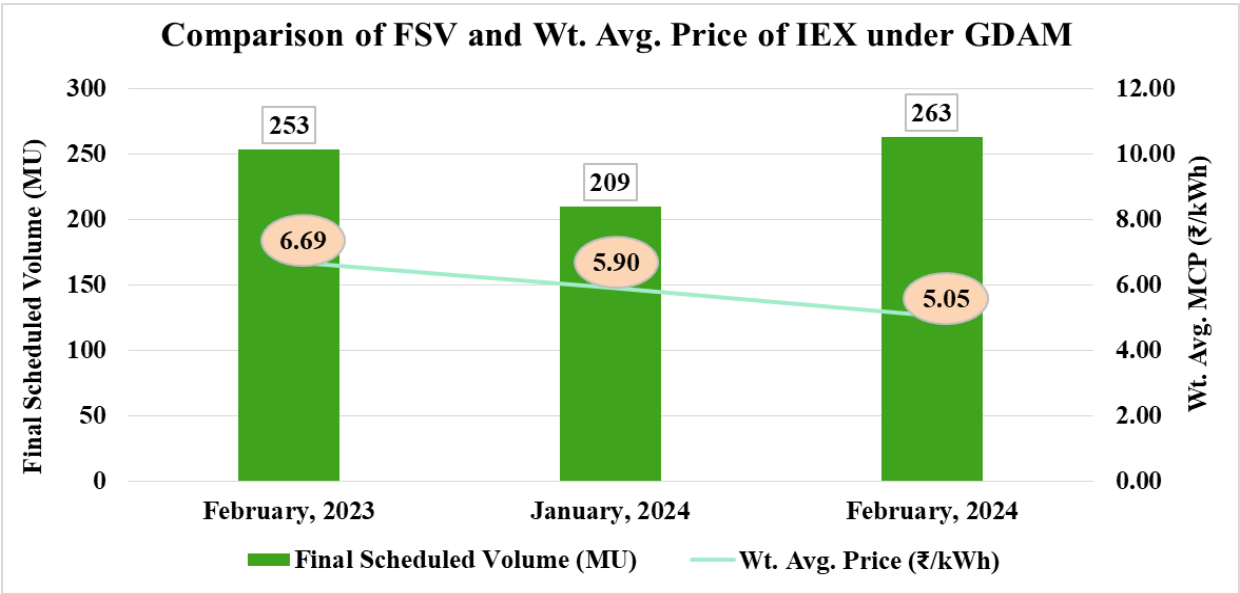
**Table-2B**

### 3. Green Day Ahead Market (GDAM)

The volume of electricity transacted under GDAM was 262.84 MU at a Wt. Avg. Price of ₹ 5.05/kWh in February, 2024.



- 3.1. The volume of electricity transacted under GDAM in February, 2024 was **262.84 MU** (109.64 MU in Solar, 143.67 MU in Non-Solar and 9.53 MU in Hydro) in IEX at a Wt. Avg. MCP of ₹ **5.05/kWh** and no transaction took place in PXIL & HPX under GDAM.
- 3.2. The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under GDAM for February, 2024 vs January, 2024 and February, 2023 is Shown below:



- 3.3. There was no real time curtailment in the power exchanges under Green Day Ahead Market during the month of February, 2024, January, 2024 and February, 2023.
- 3.4. The **top 10 sellers** on the power exchanges under Green Day Ahead Market (GDAM) in February, 2024 were **ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED, Andhra Pradesh, ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana, Madhya Pradesh, Amplus Ages Private Limited, Continuum Power Trading (TN) Private Limited, Ostro Kannada Power Private Limited, RENEW SURYA PRATAP PRIVATE LIMITED, ADANI SOLAR ENERGY RJ TWO PRIVATE LIMITED and Maharashtra**, which constituted **67.59 %** of the market volume.
- 3.5. The **top 10 buyers** on the power exchanges under Green Day Ahead Market (GDAM) in February, 2024 were **ArcelorMittal Nippon steel (ESIL), Punjab, Tamil Nadu, Maharashtra, Madhya Pradesh, Chhattisgarh, Kerala, Delhi, DVC and BHARAT ALUMINIUM COMPANY LTD (Bulk Consumer)**, which constituted **82.81 %** of the market volume.

3.6. The Final Scheduled Volume (FSV), Daily Avg. Market Clearing Prices (MCP), Area Clearing Prices (ACP), Real Time Curtailment and details of Transmission Congestion under three segments (i.e. Solar, Non Solar and Hydro) under Green Day Ahead Market during the month of February, 2024 and its comparison with January, 2024 and February, 2023 are shown in Table-3A & 3B:

**(i) Final Scheduled Volume :**

| Exchange | Segment                          | Period                         | Final Scheduled Volume (MU) |                       |                       |                      |
|----------|----------------------------------|--------------------------------|-----------------------------|-----------------------|-----------------------|----------------------|
|          |                                  |                                | Total                       | Minimum<br>(on a day) | Maximum<br>(on a day) | Average<br>(per day) |
| IEX      | Solar                            | February, 2024                 | 109.64                      | 1.96                  | 7.91                  | 3.78                 |
|          |                                  | January, 2024                  | 67.04                       | 0.47                  | 3.93                  | 2.16                 |
|          |                                  | % Change<br>(Month over Month) | 63.54                       | 317.02                | 101.27                | 75.00                |
|          |                                  | February, 2023                 | 22.55                       | 0.51                  | 1.91                  | 0.81                 |
|          |                                  | %Change<br>(Year over Year)    | 386.21                      | 284.31                | 314.14                | 366.67               |
|          | Non Solar                        | February, 2024                 | 143.67                      | 3.20                  | 6.71                  | 4.95                 |
|          |                                  | January, 2024                  | 137.56                      | 2.74                  | 6.83                  | 4.44                 |
|          |                                  | % Change<br>(Month over Month) | 4.44                        | 16.79                 | -1.76                 | 11.49                |
|          |                                  | February, 2023                 | 230.45                      | 5.73                  | 12.81                 | 8.23                 |
|          |                                  | %Change<br>(Year over Year)    | -37.66                      | -44.15                | -47.62                | -39.85               |
|          | Hydro                            | February, 2024                 | 9.53                        | 0.23                  | 0.62                  | 0.33                 |
|          |                                  | January, 2024                  | 4.85                        | 0.01                  | 0.61                  | 0.16                 |
|          |                                  | % Change<br>(Month over Month) | 96.49                       | 2200.00               | 1.64                  | 106.25               |
|          |                                  | February, 2023                 | -                           | -                     | -                     | -                    |
|          |                                  | %Change<br>(Year over Year)    | NA                          | NA                    | NA                    | NA                   |
| PXIL     | Solar, Non<br>Solar and<br>Hydro | February, 2024                 | -                           | -                     | -                     | -                    |
|          |                                  | January, 2024                  | -                           | -                     | -                     | -                    |
|          |                                  | % Change<br>(Month over Month) | NA                          | NA                    | NA                    | NA                   |
|          |                                  | February, 2023                 | -                           | -                     | -                     | -                    |
|          |                                  | %Change<br>(Year over Year)    | NA                          | NA                    | NA                    | NA                   |
| HPX      | Solar, Non<br>Solar and<br>Hydro | February, 2024                 | -                           | -                     | -                     | -                    |
|          |                                  | January, 2024                  | -                           | -                     | -                     | -                    |
|          |                                  | % Change<br>(Month over Month) | NA                          | NA                    | NA                    | NA                   |

-: No transaction took place

NA: Not Applicable

**Table-3A**

(ii) Daily Wt. Avg. Market Clearing Price (MCP) and Area Clearing Price (ACP):

| Exchange | Segment                    | Period                      | Prices (₹/kWh)    |         |             |         |                              |
|----------|----------------------------|-----------------------------|-------------------|---------|-------------|---------|------------------------------|
|          |                            |                             | Daily MCP (₹/kWh) |         | ACP (₹/kWh) |         | Monthly Wt. Avg. MCP (₹/kWh) |
|          |                            |                             | Minimum           | Maximum | Minimum     | Maximum | Average                      |
| IEX      | Solar, Non Solar and Hydro | February, 2024              | 4.07              | 6.55    | 2.50        | 10.00   | 5.05                         |
|          |                            | January, 2024               | 4.82              | 7.27    | 3.20        | 10.00   | 5.90                         |
|          |                            | % Change (Month over Month) | -15.56            | -9.90   | -21.88      | 0.00    | -14.41                       |
|          |                            | February, 2023              | 4.65              | 8.81    | 2.99        | 12.00   | 6.69                         |
|          |                            | % Change (Year over Year)   | -12.47            | -25.65  | -16.39      | -16.67  | -24.51                       |
| PXIL     | Solar, Non Solar and Hydro | February, 2024              | -                 | -       | -           | -       | -                            |
|          |                            | January, 2024               | -                 | -       | -           | -       | -                            |
|          |                            | % Change (Month over Month) | NA                | NA      | NA          | NA      | NA                           |
|          |                            | February, 2023              | -                 | -       | -           | -       | -                            |
|          |                            | % Change (Year over Year)   | NA                | NA      | NA          | NA      | NA                           |
| HPX      | Solar, Non Solar and Hydro | February, 2024              | -                 | -       | -           | -       | -                            |
|          |                            | January, 2024               | -                 | -       | -           | -       | -                            |
|          |                            | % Change (Month over Month) | NA                | NA      | NA          | NA      | NA                           |

-: No transaction took place

NA: Not Applicable

**Table-3B**

#### 4. Term Ahead Market (TAM)

The volume of electricity transacted under TAM was 2,646.48 MU at a Wt. Avg. Price of ₹ 7.54/kWh in February, 2024



4.1. The total volume of electricity transacted on the power exchanges on delivery date basis under Term Ahead Market in February, 2024, January, 2024 and February, 2023 is tabulated below:

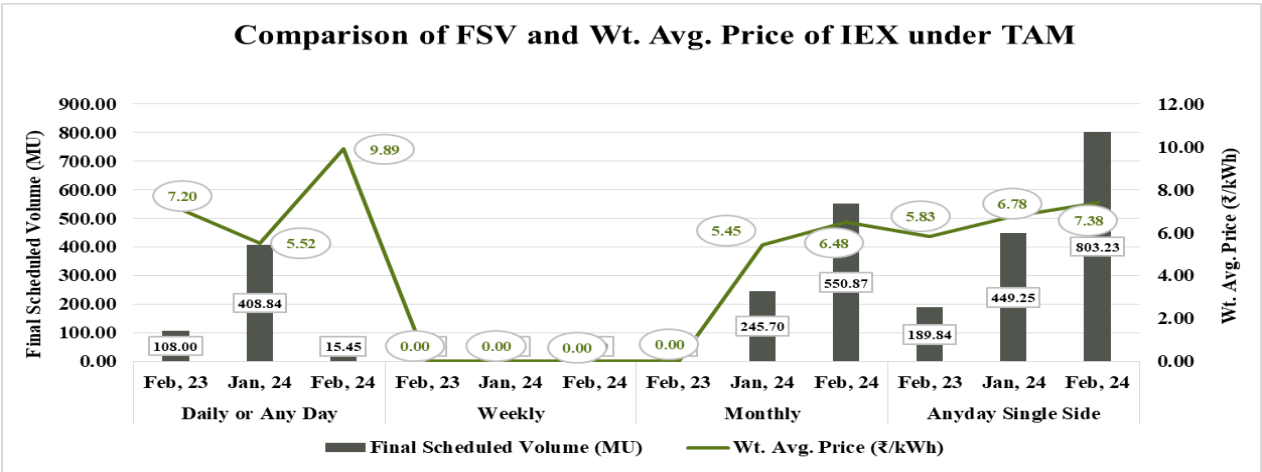
| Month          | Total Volume (in MU) | IEX in MU (in % of total volume) | PXIL in MU (in % of total volume) | HPX in MU (in % of total volume) |
|----------------|----------------------|----------------------------------|-----------------------------------|----------------------------------|
| February, 2024 | 2,646.48             | 1369.55 (51.75 %)                | 661.85 (25.01 %)                  | 615.08 (23.24 %)                 |
| January, 2024  | 1,651.54             | 1103.79 (66.82 %)                | 179.26 (10.85 %)                  | 368.89 (22.33 %)                 |
| February, 2023 | 317.71               | 297.84 (93.75 %)                 | -                                 | 19.87 (6.25 %)                   |

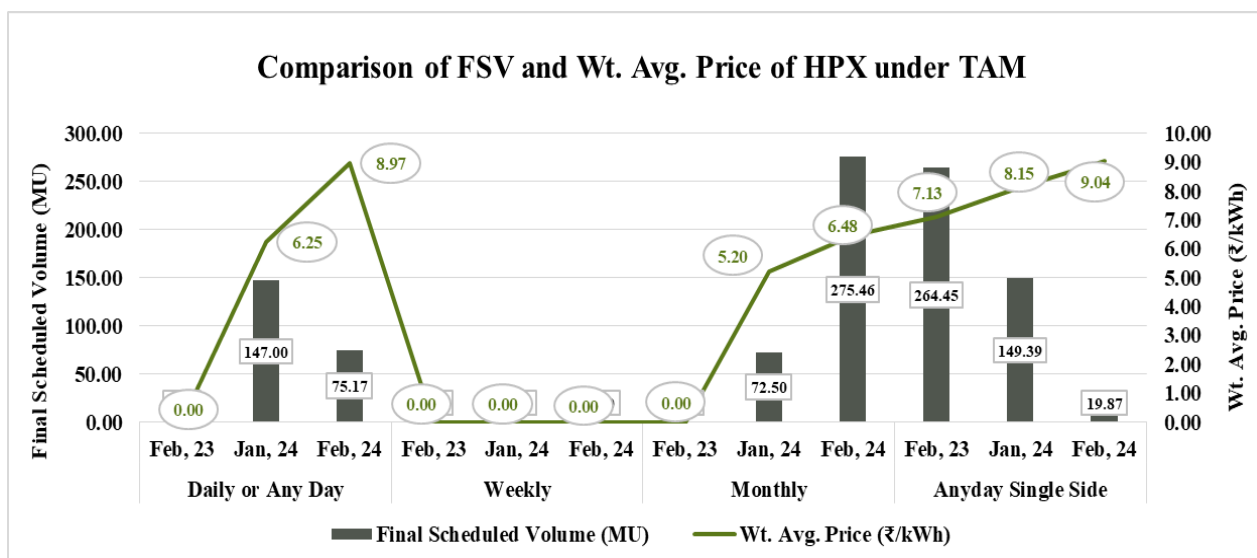
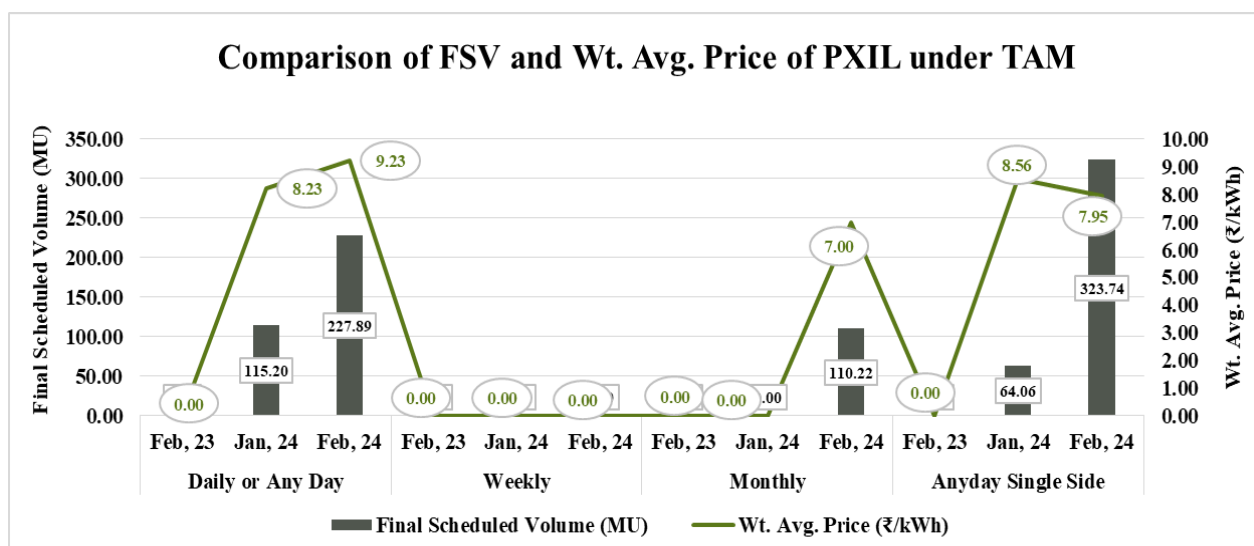
4.2. With respect to the total energy supplied during the month of February, 2024 in the country, the volume of electricity traded on the power exchanges under TAM on delivery date basis represents 2.08 % of the total energy supplied. The same was 1.23 % in January, 2024 and 0.27 % in February, 2023.

4.3. In February, 2024, there was no transmission congestion in IEX, PXIL & HPX under TAM.

4.4. In February, 2024, there was real time curtailment of 119.64 MU under TAM, Out of which 19.85 MU was under Monthly contract and 15.96 MU was under Anyday Single Sided contract in IEX. Whereas, in PXIL, there was real time curtailment of 11.46 MU under Daily-Anyday contract, Monthly contract and 1.14 MU and 9.44 MU under Anyday Single Sided contract. Whereas, in HPX, there was real time curtailment of 0.24 MU under Daily-Anyday contract, 51.66 MU was under Monthly contract and 9.89 MU under Anyday Single Sided contract under TAM.

4.5. The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under TAM for February, 2024 vs January, 2024 and February, 2023 is Shown below:





4.6. The comparison of total volume of electricity transacted and Wt. Avg. MCP in the power exchanges under Term Ahead Market (TAM) on delivery date basis during February, 2024 with January, 2024 and February, 2023 are shown in Table – 4A & 4B:

(i) Final Scheduled Volume (MU), February, 2024 vis- a- vis January, 2024 and February, 2023

| Exchange | Period                     | Final Scheduled Volume (MU) |        |         |                    |         |
|----------|----------------------------|-----------------------------|--------|---------|--------------------|---------|
|          |                            | Daily or Any Day            | Weekly | Monthly | Anyday Single Side | Total   |
| IEX      | February, 2024             | 15.45                       | -      | 550.87  | 803.23             | 1369.55 |
|          | January, 2024              | 408.84                      | -      | 245.70  | 449.25             | 1103.79 |
|          | %Change (Month over Month) | -96.22                      | NA     | 124.20  | 78.79              | 24.08   |
|          | February, 2023             | 108.00                      | -      | -       | 189.84             | 297.84  |
|          | %Change (Year over Year)   | -85.69                      | NA     | NA      | 323.11             | 359.83  |
| PXIL     | February, 2024             | 227.89                      | -      | 110.22  | 323.74             | 661.85  |

| Exchange | Period                     | Final Scheduled Volume (MU) |        |         |                    |         |
|----------|----------------------------|-----------------------------|--------|---------|--------------------|---------|
|          |                            | Daily or Any Day            | Weekly | Monthly | Anyday Single Side | Total   |
|          | January, 2024              | 115.20                      | -      | -       | 64.06              | 179.26  |
|          | %Change (Month over Month) | 97.82                       | NA     | NA      | 405.37             | 269.21  |
|          | February, 2023             | -                           | -      | -       | -                  | -       |
|          | %Change (Year over Year)   | NA                          | NA     | NA      | NA                 | NA      |
| HPX      | February, 2024             | 75.17                       | -      | 275.46  | 264.45             | 615.08  |
|          | January, 2024              | 147.00                      | -      | 72.50   | 149.39             | 368.89  |
|          | %Change (Month over Month) | -48.86                      | NA     | 279.94  | 77.02              | 66.74   |
|          | February, 2023             | -                           | -      | -       | 19.87              | 19.87   |
|          | %Change (Year over Year)   | NA                          | NA     | NA      | 1230.90            | 2995.52 |

- : No transaction took place

NA: Not Applicable

**Table: 4A**

**(ii) Wt. Avg. MCP, February, 2024 vis- a- vis January, 2024 and February, 2023**

| Exchange | Period                     | Average Wt. MCP (₹/kWh) |        |         |                    |
|----------|----------------------------|-------------------------|--------|---------|--------------------|
|          |                            | Daily or Any Day        | Weekly | Monthly | Anyday Single Side |
| IEX      | February, 2024             | 9.89                    | -      | 6.48    | 7.38               |
|          | January, 2024              | 5.52                    | -      | 5.45    | 6.78               |
|          | %Change (Month over Month) | 79.17                   | NA     | 18.90   | 8.85               |
|          | February, 2023             | 7.20                    | -      | -       | 5.83               |
|          | %Change Year over Year)    | 37.36                   | NA     | NA      | 26.59              |
| PXIL     | February, 2024             | 9.23                    | -      | 7.00    | 7.95               |
|          | January, 2024              | 8.23                    | -      | -       | 8.56               |
|          | %Change (Month over Month) | 12.15                   | NA     | NA      | -7.13              |
|          | February, 2023             | -                       | -      | -       | -                  |
|          | %Change (Year over Year)   | NA                      | NA     | NA      | NA                 |
| HPX      | February, 2024             | 8.97                    | -      | 6.48    | 9.04               |
|          | January, 2024              | 6.25                    | -      | 5.20    | 8.15               |
|          | %Change (Month over Month) | 43.52                   | NA     | 24.62   | 10.92              |
|          | February, 2023             | -                       | -      | -       | 7.13               |
|          | %Change Year over Year)    | NA                      | NA     | NA      | 26.79              |

-: No transaction took place

NA: Not Applicable

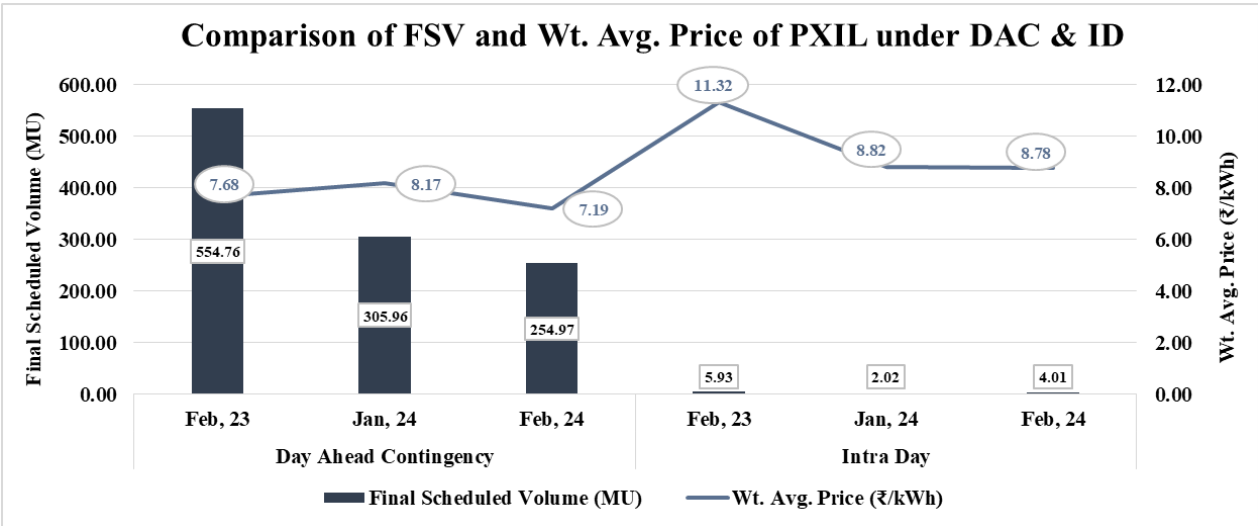
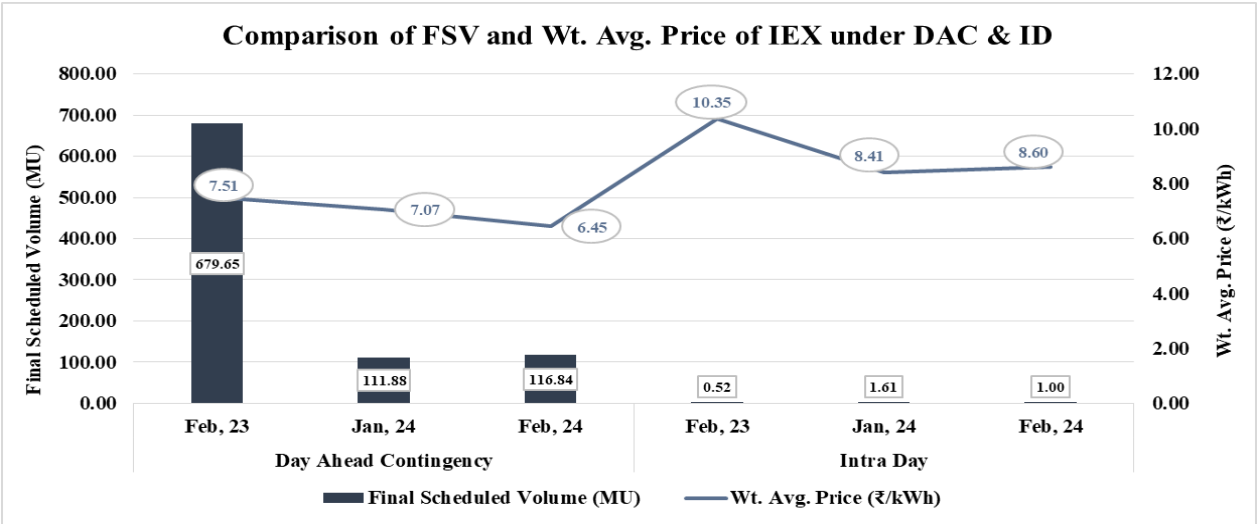
**Table: 4B**

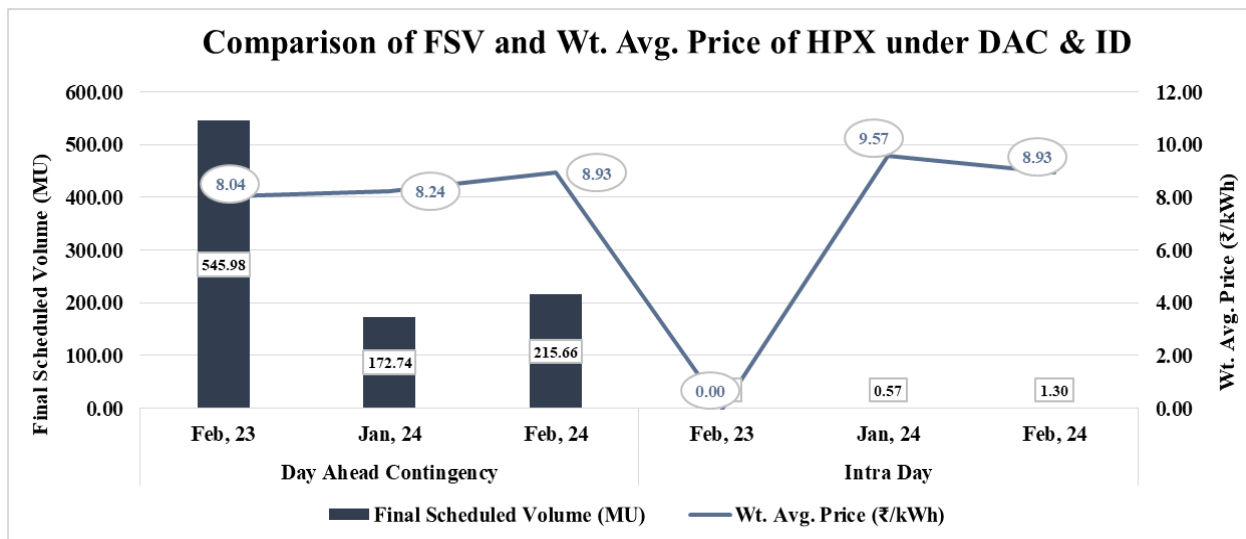
5. Day Ahead Contingency & Intra Day (DAC & ID)



The volume of electricity transacted under DAC & ID was 593.78 MU at a Wt. Avg. Price of ₹ 7.69/kWh in February, 2024.

- 5.1. The volume of electricity transacted on IEX, PXIL and HPX under DAC & ID on delivery date basis during February, 2024 were **113.49 MU, 307.98 MU and 173.31 MU**, respectively.
- 5.2. In February, 2024, there was no transmission congestion in IEX under DAC & ID.
- 5.3. In February, 2024, there was real time curtailment of **4.07 MU** under Day Ahead Contingency contract in IEX under DAC & ID.
- 5.4. The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under DAC & ID for February, 2024 vs January, 2024 and February, 2023 is Shown below:





5.5. The total volume of electricity transacted under DAC & ID under Day Ahead Contingency & Intra Day contracts during February, 2024 and its comparison with January, 2024 and February, 2023 on delivery date basis are shown in Tables- 5A & 5B:

(i) **Final Scheduled Volume (MU), February, 2024 vis- a- vis January, 2024 and February, 2023**

| Exchange | Period                     | Final Scheduled Volume (MU) |           |        |
|----------|----------------------------|-----------------------------|-----------|--------|
|          |                            | Day Ahead Contingency       | Intra Day | Total  |
| IEX      | February, 2024             | 116.84                      | 1.00      | 117.84 |
|          | January, 2024              | 111.88                      | 1.61      | 113.49 |
|          | %Change (Month over Month) | 4.43                        | -37.89    | 3.83   |
|          | February, 2023             | 679.65                      | 0.52      | 680.17 |
|          | %Change (Year over Year)   | -82.81                      | 92.31     | -82.67 |
| PXIL     | February, 2024             | 254.97                      | 4.01      | 258.98 |
|          | January, 2024              | 305.96                      | 2.02      | 307.98 |
|          | %Change (Month over Month) | -16.67                      | 98.51     | -15.91 |
|          | February, 2023             | 554.76                      | 5.93      | 560.69 |
|          | %Change (Year over Year)   | -54.04                      | -32.38    | -53.81 |
| HPX      | February, 2024             | 215.66                      | 1.30      | 216.96 |
|          | January, 2024              | 172.74                      | 0.57      | 173.31 |
|          | %Change (Month over Month) | 24.85                       | 128.07    | 25.19  |
|          | February, 2023             | 545.98                      | -         | 545.98 |
|          | %Change (Year over Year)   | -60.50                      | NA        | -60.26 |

- : No transaction took place

NA: Not Applicable

**Table: 5A**

(ii) Wt. Avg. MCP, February, 2024 vis- a- vis January, 2024 and February, 2023

| Exchange | Period                     | Average Wt. MCP (₹/kWh) |           |
|----------|----------------------------|-------------------------|-----------|
|          |                            | Day Ahead Contingency   | Intra Day |
| IEX      | February, 2024             | 6.45                    | 8.60      |
|          | January, 2024              | 7.07                    | 8.41      |
|          | %Change (Month over Month) | -8.77                   | 2.26      |
|          | February, 2023             | 7.51                    | 10.35     |
|          | %Change Year over Year)    | -14.11                  | -16.91    |
| PXIL     | February, 2024             | 7.19                    | 8.78      |
|          | January, 2024              | 8.17                    | 8.82      |
|          | %Change (Month over Month) | -12.00                  | -0.45     |
|          | February, 2023             | 7.68                    | 11.32     |
|          | %Change (Year over Year)   | -6.38                   | -22.44    |
| HPX      | February, 2024             | 8.93                    | 8.93      |
|          | January, 2024              | 8.24                    | 9.57      |
|          | %Change (Month over Month) | 8.37                    | -6.69     |
|          | February, 2023             | 8.04                    | -         |
|          | %Change Year over Year)    | 11.07                   | NA        |

- : No transaction took place

NA: Not Applicable

**Table: 5B**

## 6. Green Term Ahead Market (GTAM)

The volume of electricity transacted under GTAM was **57.76 MU** at a Wt. Avg. Price of ₹ **6.74/kWh** in February, 2024.



The total volume of electricity transacted in the IEX & HPX under GTAM on delivery date basis during February, 2024 was **57.76 MU** in Solar and Non-Solar only. Whereas, no transactions took place in PXIL under GTAM.

The total volume of electricity transacted under GTAM in Daily/ Anyday, Weekly, Monthly and Anyday Single Side contracts during February, 2024 and its comparison with January, 2024 and February, 2023 on delivery date basis are shown in tables 6A to 6F.

### 6.1. Solar Energy Segment under GTAM

The Final Scheduled Volume and the Price of electricity transacted under GTAM (Solar) in Power Exchanges during February, 2024 and its comparison with January, 2024 and February, 2023 are shown in Table- 6A & 6B:

#### (i) Final Scheduled Volume:

| Exchange | Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | Daily/Anyday          | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change Month over Month)  | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Weekly                | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Monthly               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2024             | 3.02                        | 0.43               | 0.43               | 0.43              |

| Exchange | Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
|          | Anyday Single Side    | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| PXIL     | Daily/Anyday          | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Weekly                | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Monthly               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| HPX      | Daily/Anyday          | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Weekly                | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Monthly               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |

-: No transaction took place

NA: Not Applicable

**Table-6A**

(ii) Daily Wt. Avg. Market Clearing Price (MCP):

| Exchange | Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
| IEX      | Daily/Anyday          | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       |                            |               |         |         |
|          | Weekly                | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       |                            |               |         |         |
|          | Monthly               | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       |                            |               |         |         |
|          | Anyday Single Side    | February, 2024             | 4.70          | 4.70    | 4.70    |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       |                            |               |         |         |
| PXIL     | Daily/Anyday          | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       |                            |               |         |         |
|          | Weekly                | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       |                            |               |         |         |
|          | Monthly               | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       |                            |               |         |         |

| Exchange | Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
|          | Anyday Single Side    | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
| HPX      | Daily/Anyday          | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          | Weekly                | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          | Monthly               | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          | Anyday Single Side    | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |

∴ No transaction took place

NA: Not Applicable

**Table-6B**

**6.1.1.** In February, 2024, there was no transmission congestion in IEX. Whereas, no transaction took place in PXIL & HPX under GTAM (Solar).

**6.1.2.** In February, 2024, there was no real time curtailment in IEX. Whereas, no transaction took place in PXIL & HPX under GTAM (Solar).

## **6.2. Non-Solar Energy Segment under GTAM**

The Final Scheduled Volume and the Price of electricity transacted under GTAM (Non-Solar) in Power Exchanges during February, 2024 and its comparison with January, 2024 and February, 2023 are shown in Table- 6C & 6D:

### **(i) Final Scheduled Volume:**

| Exchange | Non- Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|----------------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                            |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | Daily/Anyday               | February, 2024             | 14.72                       | 0.46               | 0.52               | 0.51              |
|          |                            | January, 2024              | 9.53                        | 0.10               | 0.41               | 0.31              |
|          |                            | %Change (Month over Month) | 54.46                       | 360.00             | 26.83              | 64.52             |
|          |                            | February, 2023             | 4.20                        | 0.07               | 0.19               | 0.17              |
|          |                            | %Change (Year over Year)   | 250.48                      | 557.14             | 173.68             | 200.00            |

| Exchange | Non- Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|----------------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                            |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
|          | Weekly                     | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Monthly                    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | 1.86                        | 0.06               | 0.06               | 0.06              |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side         | February, 2024             | 14.27                       | 0.49               | 0.49               | 0.49              |
|          |                            | January, 2024              | 15.25                       | 0.49               | 0.49               | 0.49              |
|          |                            | %Change (Month over Month) | -6.43                       | 0.00               | 0.00               | 0.00              |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| PXIL     | Daily/Anyday               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Weekly                     | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Monthly                    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side         | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |

| Exchange | Non- Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|----------------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                            |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| HPX      | Daily/Anyday               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | 0.92                        | 0.18               | 0.19               | 0.18              |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Weekly                     | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Monthly                    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side         | February, 2024             | 25.75                       | 0.89               | 0.89               | 0.89              |
|          |                            | January, 2024              | 23.64                       | 0.60               | 0.84               | 0.76              |
|          |                            | %Change (Month over Month) | 8.93                        | 48.33              | 5.95               | 17.11             |

∴ No transaction took place

NA: Not Applicable

Table - 6C

(ii) Daily Wt. Avg. Market Clearing Price (MCP):

| Exchange | Non- Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|----------------------------|----------------------------|---------------|---------|---------|
|          |                            |                            | Minimum       | Maximum | Average |
| IEX      | Daily/Anyday               | February, 2024             | 6.47          | 6.56    | 6.55    |
|          |                            | January, 2024              | 6.08          | 6.13    | 6.09    |
|          |                            | %Change (Month over Month) | 6.41          | 7.01    | 7.55    |
|          |                            | February, 2023             | 6.30          | 6.30    | 6.30    |
|          |                            | %Change (Year over Year)   | 2.70          | 4.13    | 3.97    |
|          |                            |                            |               |         |         |
|          | Weekly                     | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                            |                            |               |         |         |
|          | Monthly                    | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | 6.10          | 6.10    | 6.10    |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                            |                            |               |         |         |
|          | Anyday Single Side         | February, 2024             | 6.69          | 6.69    | 6.69    |
|          |                            | January, 2024              | 6.69          | 6.69    | 6.69    |

| Exchange | Non- Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|----------------------------|----------------------------|---------------|---------|---------|
|          |                            |                            | Minimum       | Maximum | Average |
|          |                            | %Change (Month over Month) | 0.00          | 0.00    | 0.00    |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
| PXIL     | Daily/Anyday               | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                            |                            |               |         |         |
|          | Weekly                     | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                            |                            |               |         |         |
|          | Monthly                    | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                            |                            |               |         |         |
|          | Anyday Single Side         | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                            |                            |               |         |         |
| HPX      | Daily/Anyday               | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | 5.50          | 5.50    | 5.50    |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          | Weekly                     | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          | Monthly                    | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          | Anyday Single Side         | February, 2024             | 7.11          | 7.11    | 7.11    |
|          |                            | January, 2024              | 6.70          | 6.74    | 6.73    |
|          |                            | %Change (Month over Month) | 6.12          | 5.49    | 5.65    |

-: No transaction took place

NA: Not Applicable

Table - 6D

**6.2.1.** In February, 2024, there was no transmission congestion in IEX & HPX. Whereas, no transaction took place in PXIL under GTAM (Non Solar).

**6.2.2.** In February, 2024, there was no real time curtailment in IEX & HPX. Whereas, no transaction took place in PXIL under GTAM (Non Solar).

### 6.3 Hydro Energy Segment under GTAM

The Final Scheduled Volume and the Price of electricity transacted under GTAM (Hydro) in Power Exchanges during February, 2024 and its comparison with January, 2024 and February, 2023 are shown in Table- 6E & 6F:

#### (i) Final Scheduled Volume:

| Exchange | Hydro Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | Daily/Anyday          | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Weekly                | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Monthly               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| PXIL     | Daily/Anyday          | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |

| Exchange | Hydro Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Weekly                | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Monthly               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| HPX      | Daily/Anyday          | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Weekly                | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Monthly               | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Anyday Single Side    | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |

-: No transaction took place

NA: Not Applicable

Table: 6E

**(ii) Daily Wt. Avg. Market Clearing Price (MCP):**

| Exchange | Hydro Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
| IEX      | Daily/Anyday          | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Weekly                | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Monthly               | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Anyday Single Side    | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
| PXIL     | Daily/Anyday          | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Weekly                | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Monthly               | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |

| Exchange | Hydro Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Anyday Single Side    | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
| HPX      | Daily/Anyday          | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          | Weekly                | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          | Monthly               | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          | Anyday Single Side    | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |

-: No transaction took place

NA: Not Applicable

**Table – 6F**

**6.3.1.** In February, 2024, there was no transaction under GTAM (Hydro) in IEX, PXIL & HPX.

## 7. Green Day Ahead Contingency & Intra Day (G-DAC & ID)

The volume of electricity transacted under G-DAC & ID was 50.77 MU at a Wt. Avg. Price of ₹ 5.04/kWh in February, 2024.



The total volume of electricity transacted in the PXIL & HPX under G-DAC & ID on delivery date basis during February, 2024 was **50.77 MU** (**47.36 MU** in Solar and **3.41 MU** in Non-Solar), respectively. There was no transaction under G-DAC & ID in IEX in February, 2024.

The total volume of electricity transacted under G-DAC & ID in Day Ahead Contingency and Intra Day contracts during February, 2024 and its comparison with January, 2024 and February, 2023 on delivery date basis are shown in tables 7A to 7F.

### 7.1. Solar Energy Segment under G-DAC & ID

The Final Scheduled Volume and the Price of electricity transacted under G-DAC & ID (Solar) in Power Exchanges during February, 2024 and its comparison with January, 2024 and February, 2023 are shown in Table- 7A & 7B:

#### (i) Final Scheduled Volume:

| Exchange | Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | Day Ahead Contingency | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change Month over Month)  | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Intra Day             | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| PXIL     | Day Ahead Contingency | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Intra Day             | February, 2024             | -                           | -                  | -                  | -                 |

| Exchange | Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| HPX      |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Day Ahead Contingency | February, 2024             | 47.36                       | 0.03               | 3.00               | 1.75              |
|          |                       | January, 2024              | 0.53                        | 0.01               | 0.03               | 0.02              |
|          |                       | %Change (Month over Month) | 8835.85                     | 200.00             | 9900.00            | 8650.00           |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Intra Day             | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |

-: No transaction took place

NA: Not Applicable

Table-7A

(ii) Daily Wt. Avg. Market Clearing Price (MCP):

| Exchange | Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
| IEX      | Day Ahead Contingency | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Intra Day             | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
| PXIL     | Day Ahead Contingency | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Intra Day             | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |

| Exchange | Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
| HPX      |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          |                       | February, 2024             | 3.85          | 6.92    | 4.96    |
|          |                       | January, 2024              | 4.12          | 7.61    | 5.91    |
|          | Day Ahead Contingency | %Change (Month over Month) | -6.55         | -9.07   | -16.07  |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Intra Day             | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |

-: No transaction took place

NA: Not Applicable

**Table-7B**

**7.1.1.** In February, 2024, there was no transmission congestion under G-DAC & ID (Solar) in HPX. There was no transaction in IEX & PXIL under G-DAC & ID (Solar).

**7.1.2.** In February, 2024, there was no real time curtailment under G-DAC & ID (Solar) in HPX. There was no transaction in IEX & PXIL under G-DAC & ID (Solar).

## 7.2. Non-Solar Energy Segment under G-DAC & ID

The Final Scheduled Volume and the Price of electricity transacted under G-DAC & ID (Non-Solar) in Power Exchanges during February, 2024 and its comparison with January, 2024 and February, 2023 are shown in Table- 7C & 7D:

### (i) Final Scheduled Volume:

| Exchange | Non- Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|----------------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                            |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | Day Ahead Contingency      | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | 77.24                       | 0.29               | 4.10               | 2.76              |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Intra Day                  | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |

| Exchange | Non- Solar Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|----------------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                            |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| PXIL     | Day Ahead Contingency      | February, 2024             | 2.23                        | 0.03               | 0.15               | 0.09              |
|          |                            | January, 2024              | 2.06                        | 0.03               | 0.16               | 0.09              |
|          |                            | %Change (Month over Month) | 8.25                        | 0.00               | -6.25              | 0.00              |
|          |                            | February, 2023             | 39.29                       | 0.05               | 3.20               | 1.40              |
|          |                            | %Change (Year over Year)   | -94.32                      | -40.00             | -95.31             | -93.57            |
|          | Intra Day                  | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | 0.005                       | 0.005              | 0.005              | 0.005             |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                            | February, 2023             | -                           | -                  | -                  | -                 |
|          |                            | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| HPX      | Day Ahead Contingency      | February, 2024             | 1.18                        | 0.01               | 0.10               | 0.04              |
|          |                            | January, 2024              | 1.22                        | 0.004              | 0.22               | 0.04              |
|          |                            | %Change (Month over Month) | -3.28                       | 150.00             | -54.55             | 0.00              |
|          |                            | February, 2023             | 22.89                       | 0.32               | 1.38               | 0.82              |
|          |                            | %Change (Year over Year)   | -94.84                      | -96.88             | -92.75             | -95.12            |
|          | Intra Day                  | February, 2024             | -                           | -                  | -                  | -                 |
|          |                            | January, 2024              | -                           | -                  | -                  | -                 |
|          |                            | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |

:- No transaction took place

NA: Not Applicable

Table - 7C

(ii) Daily Wt. Avg. Market Clearing Price (MCP):

| Exchange | Non- Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|----------------------------|----------------------------|---------------|---------|---------|
|          |                            |                            | Minimum       | Maximum | Average |
| IEX      | Day Ahead Contingency      | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | 4.39          | 11.11   | 6.87    |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Intra Day                  | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
| PXIL     | Day Ahead Contingency      | February, 2024             | 4.54          | 7.17    | 6.12    |
|          |                            | January, 2024              | 6.19          | 8.02    | 7.06    |
|          |                            | %Change (Month over Month) | -26.66        | -10.60  | -13.31  |

| Exchange | Non- Solar Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|----------------------------|----------------------------|---------------|---------|---------|
|          |                            |                            | Minimum       | Maximum | Average |
|          |                            | February, 2023             | 4.10          | 8.88    | 6.53    |
|          |                            | %Change (Year over Year)   | 10.73         | -19.26  | -6.28   |
|          | Intra Day                  | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | 10.00         | 10.00   | 10.00   |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |
|          |                            | February, 2023             | -             | -       | -       |
|          |                            | %Change (Year over Year)   | NA            | NA      | NA      |
| HPX      | Day Ahead Contingency      | February, 2024             | 4.20          | 9.37    | 6.41    |
|          |                            | January, 2024              | 4.60          | 9.59    | 6.66    |
|          |                            | %Change (Month over Month) | -8.70         | -2.29   | -3.75   |
|          |                            | February, 2023             | 4.07          | 11.34   | 7.06    |
|          |                            | %Change (Year over Year)   | 3.19          | -17.37  | -9.21   |
|          | Intra Day                  | February, 2024             | -             | -       | -       |
|          |                            | January, 2024              | -             | -       | -       |
|          |                            | %Change (Month over Month) | NA            | NA      | NA      |

-: No transaction took place

NA: Not Applicable

**Table - 7D**

**7.2.1.** In February, 2024, there was no transmission congestion in PXIL & HPX under G-DAC & ID (Non Solar). There was no transaction in IEX under G-DAC & ID (Non Solar).

**7.2.2.** In February, 2024, there was no real time curtailment in PXIL & HPX. There was no transaction in IEX under G-DAC & ID (Non Solar).

### **7.3. Hydro Energy Segment under G-DAC & ID**

The Final Scheduled Volume and the Price of electricity transacted under G-DAC & ID (Hydro) in Power Exchanges during February, 2024 and its comparison with January, 2024 and February, 2023 are shown in Table- 7E & 7F:

#### **(i) Final Scheduled Volume:**

| Exchange | Hydro Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
| IEX      | Day Ahead Contingency | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | 9.53                        | 0.29               | 0.40               | 0.34              |

| Exchange | Hydro Energy Contract | Period                     | Final Scheduled Volume (MU) |                    |                    |                   |
|----------|-----------------------|----------------------------|-----------------------------|--------------------|--------------------|-------------------|
|          |                       |                            | Total                       | Minimum (on a day) | Maximum (on a day) | Average (per day) |
|          | Intra Day             | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| PXIL     | Day Ahead Contingency | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
|          | Intra Day             | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | February, 2023             | -                           | -                  | -                  | -                 |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |
| HPX      | Day Ahead Contingency | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          | Intra Day             | February, 2024             | -                           | -                  | -                  | -                 |
|          |                       | January, 2024              | -                           | -                  | -                  | -                 |
|          |                       | %Change (Month over Month) | NA                          | NA                 | NA                 | NA                |
|          |                       | %Change (Year over Year)   | NA                          | NA                 | NA                 | NA                |

:- No transaction took place

NA: Not Applicable

Table: 7E

(ii) Daily Wt. Avg. Market Clearing Price (MCP):

| Exchange | Hydro Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
| IEX      | Day Ahead Contingency | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | 5.57          | 11.89   | 9.93    |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |

| Exchange | Hydro Energy Contract | Period                     | Prices(₹/kWh) |         |         |
|----------|-----------------------|----------------------------|---------------|---------|---------|
|          |                       |                            | Minimum       | Maximum | Average |
|          | Intra Day             | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
| PXIL     | Day Ahead Contingency | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
|          | Intra Day             | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          |                       | February, 2023             | -             | -       | -       |
|          |                       | %Change (Year over Year)   | NA            | NA      | NA      |
| HPX      | Day Ahead Contingency | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | 4.49          | 7.49    | 6.10    |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |
|          | Intra Day             | February, 2024             | -             | -       | -       |
|          |                       | January, 2024              | -             | -       | -       |
|          |                       | %Change (Month over Month) | NA            | NA      | NA      |

-: No transaction took place

NA: Not Applicable

**Table – 7F**

**7.3.1.** In February, 2024, there was no transaction in IEX, PXIL and HPX under G-DAC & ID (Hydro).

**7.3.2.** In February, 2024, there was no transaction in IEX, PXIL and HPX under G-DAC & ID (Hydro).

## 8. Bilateral Transactions:

The total volume of electricity transacted through **bilateral transactions** in February, 2024 was **2,418.93 MU**. The total buy volume of electricity transacted in bilateral market through direct and trader transactions in February, 2024 were **679.62 MU** and **1,739.31 MU** respectively. The details of bilateral transactions of Electricity during February, 2024 are shown in table below:

| February, 2024 | Direct | Traders  | Total Bilateral Transaction (MU) |
|----------------|--------|----------|----------------------------------|
| <b>Total</b>   | 679.62 | 1,739.31 | 2,418.93                         |
| <b>Minimum</b> | 0.11   | 0.12     | -                                |
| <b>Maximum</b> | 388.87 | 460.33   | -                                |

**Table -8A**

The region-wise maximum/ minimum volume of electricity transacted bilaterally during February, 2024 are given in table below:

### (i) Region-wise Volume:

| Region-wise Volume (MU) | ER     |        | WR     |        | NR     |        | SR     |        | NER    |        |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                         | Direct | Trader | Direct | Trader | Direct | Trader | Direct | Trader | Direct | Trader |
| <b>Total</b>            | 192.20 | 1.02   | 85.56  | 316.92 | 12.72  | 615.51 | 389.14 | 757.09 | -      | 48.77  |
| <b>Minimum</b>          | 0.48   | 0.12   | 10.18  | 0.31   | 0.11   | 9.48   | 0.28   | 108.84 | -      | 5.71   |
| <b>Maximum</b>          | 131.44 | 0.90   | 55.68  | 148.08 | 11.20  | 385.76 | 388.87 | 460.33 | -      | 17.40  |

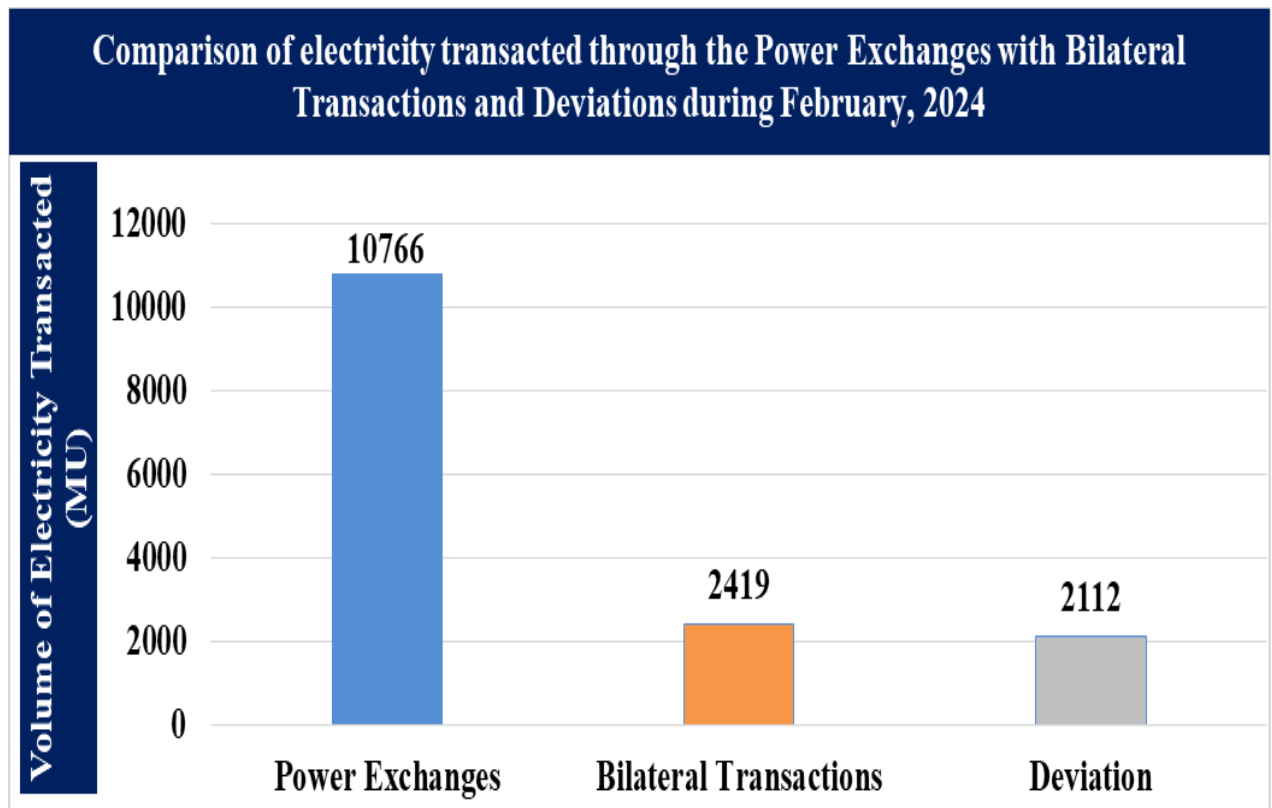
**Table-8B**

**8.1. The top 5 buyers** on bilateral transaction through direct transactions in February, 2024 were **Karnataka, Jharkhand, Daman and Diu - Dadra and Nagar Haveli, Odisha and Madhya Pradesh**, which constituted **94.72 %** of the market volume. Whereas **top 5 buyers** on bilateral transaction through traders in February, 2024 were **Tamil Nadu, Rajasthan, Himachal Pradesh, Kerala and Maharashtra**, which constituted **79.65 %** of the market volume. [Annexure III]

**8.2. The top 5 sellers** on bilateral transaction through direct transactions in February, 2024 were **Andhra Pradesh, ADHUNIK POWER & NATURAL RESOURCES LIMITED, Uttar Pradesh, Gujarat and Jindal India Thermal Power Limited**, which constituted **92.42 %** of the market volume. Whereas **top 5 sellers** on bilateral transaction through traders in February, 2024 were **Jindal India Thermal Power Limited, Jindal Power Limited, Stage-2, Punjab, R.K.M POWERGEN PRIVATE LIMITED and Adani Power Limited-Raipur TPP**, which constituted **43.47 %** of the market volume. [Annexure III]

**8.3. Deviation Volume** -The volume of Deviation observed in February, 2024 in import and export were **2,100.67 MU** and **2,124.24 MU** respectively. The total volume of Deviation observed in February, 2024 can be taken as **2,112.45 MU**.

**8.4.** A comparison of volume of electricity transacted through the Power Exchanges together under DAM, GDAM, HP-DAM, RTM, TAM, HP-TAM, DAC & ID, HP-DAC & ID, GTAM and G-DAC & ID (on delivery date basis) with Bilateral transactions and Deviation in February, 2024 is shown in **Figure 1:**

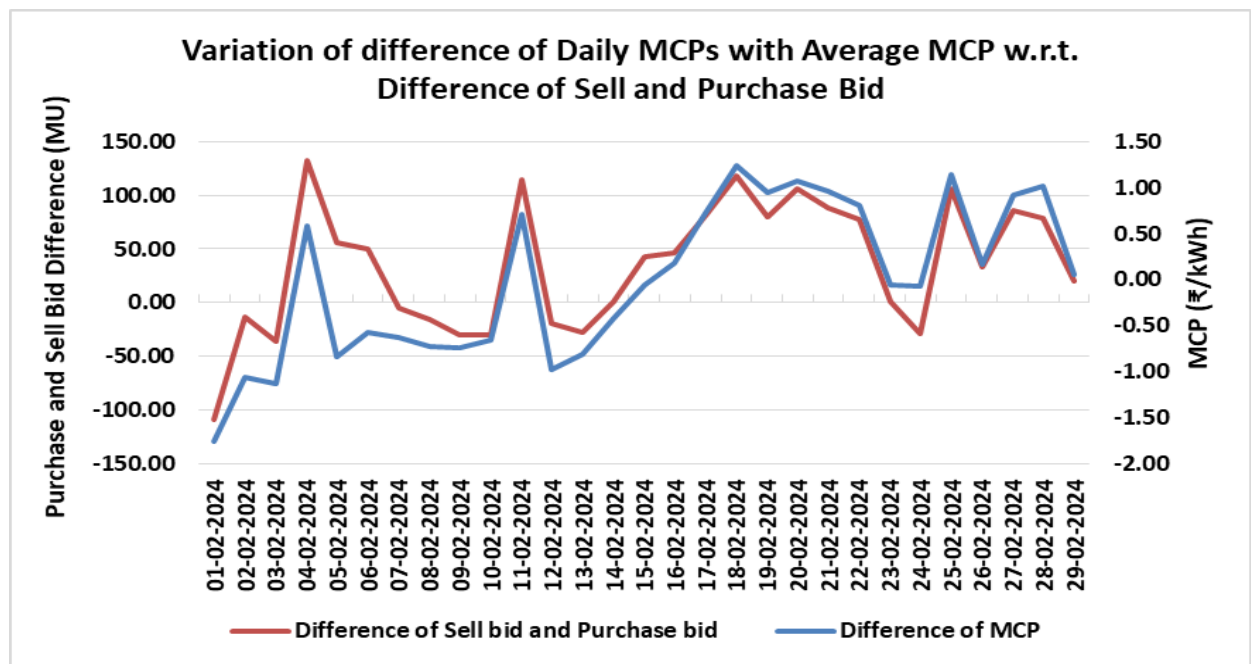


**Figure -1**

## 9. Analysis of movement of prices observed under DAM during February, 2024

A regression analysis has been carried out on the Day Ahead Market data taken from IEX website. Also, data was plotted in various graphs to observe patterns for each day of the February, 2024 month. The observations made are as under:

- 9.1. In order to find out the determinants which are responsible for the Daily Wt. Avg. MCP, a regression analysis has been carried out where the Daily Wt. Avg. MCP is the dependent variable and the independent variables are peak demand, total purchase bid, total sell bid, coal generation, hydro generation, wind generation and solar generation.
- 9.2. A double log function was used so that elasticity of Daily Wt. Avg. MCP could be read off from the coefficients of independent variables. The regression analysis revealed that the most significant variable was the Coal Generation. Further, the regression analysis revealed that the elasticity of the Daily Wt. Avg. MCP with respect to Coal Generation was **4.17** in February, 2024.
- 9.3. The variation of difference of Daily Wt. Avg. MCPs with Wt. Avg. MCP w.r.t Difference of Sell and Purchase bid is Shown below:



- 9.4. The same relationship is visible from the analysis carried out from the plot in **Figure - 2**

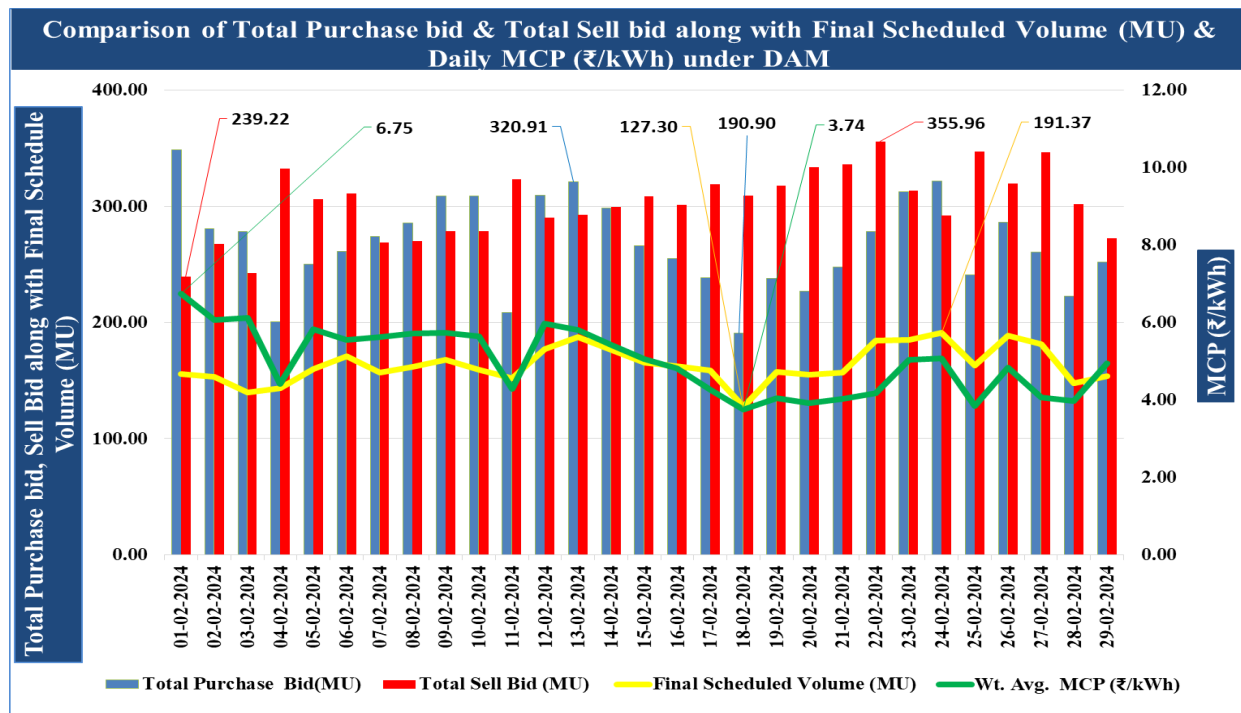


Figure – 2

9.5. Invariably, the Final Scheduled Volume (MU) and the Daily Wt. Avg. MCP (₹/kWh) showed decreasing trend on Sundays and increasing trend on Mondays as the demand of electricity in the country was less on Sundays as compared to other days of week. However, during the month of February, 2024, it is observed that on first Sunday (04<sup>th</sup> February, 2024), FSV showed increasing trend in comparison to first Saturday (03<sup>rd</sup> February, 2024). The detailed analysis on this is given at **Appendix-I**.

9.6. A comparison of maximum, minimum, daily, evening time and Morning time MCP is shown in **Figure-3**. The same are also tabulated in **Annexure-I**

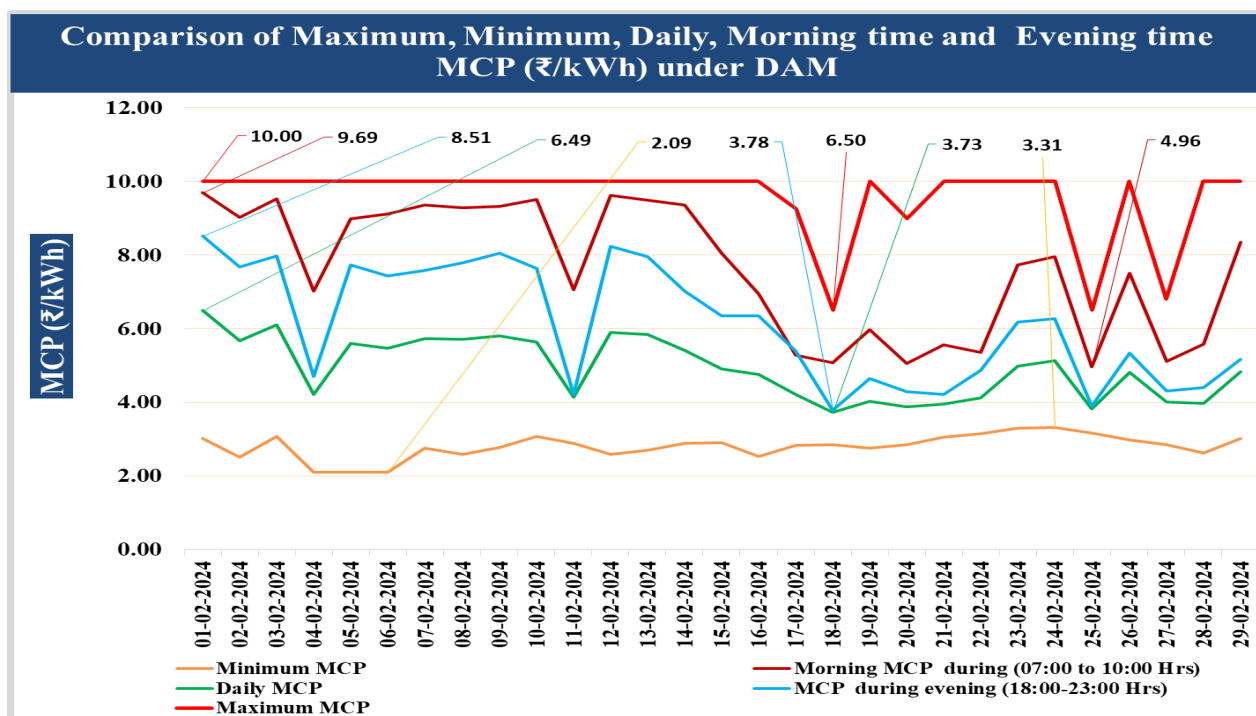
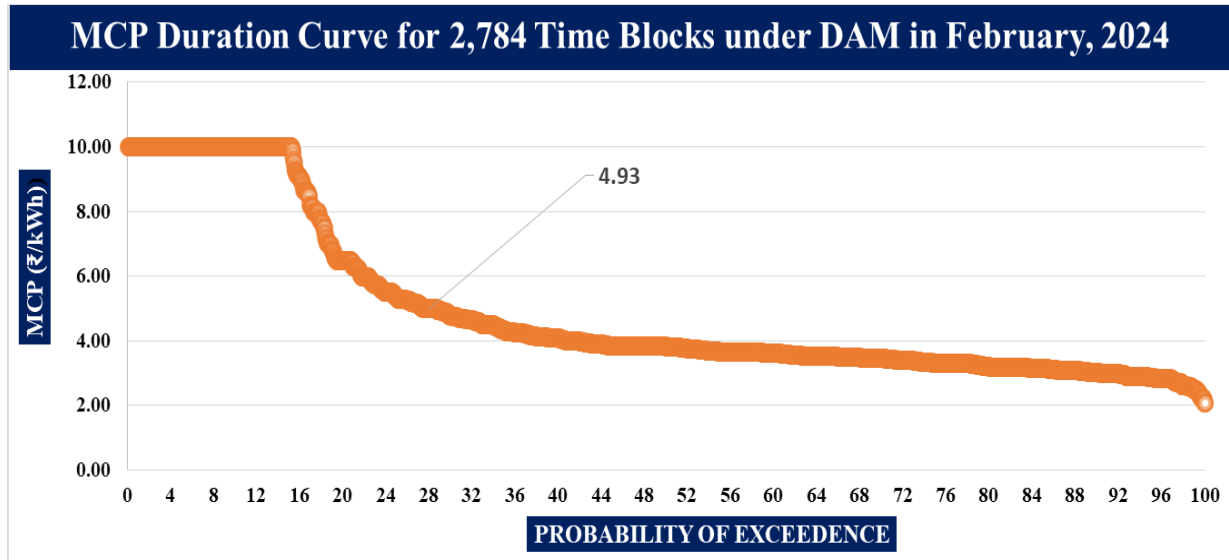
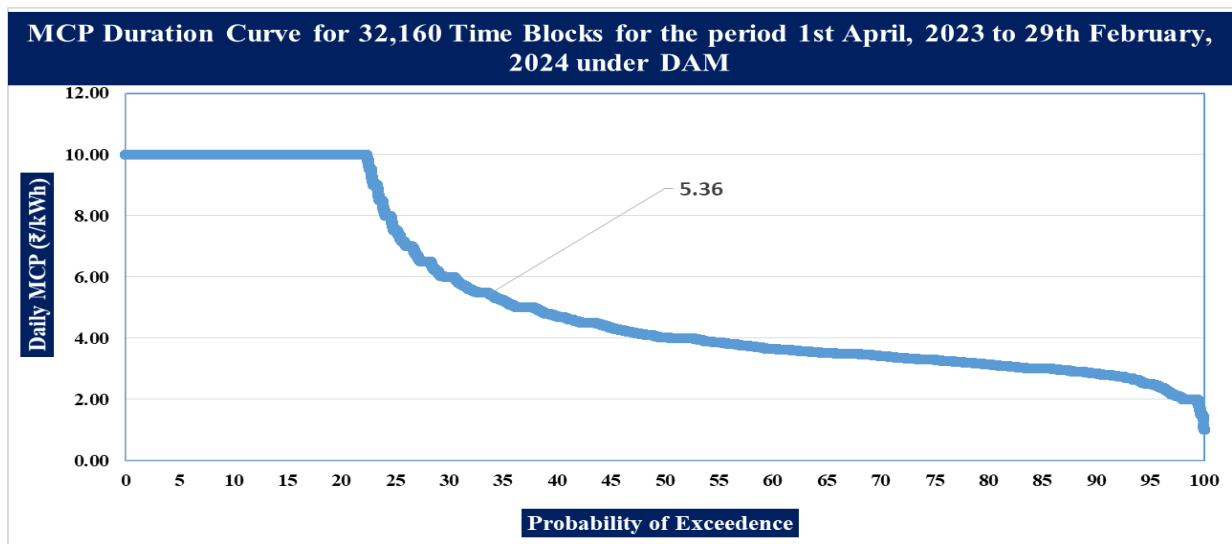


Figure-3

9.7. The Market Clearing Price duration curves for time block wise MCP for the month of February, 2024 is shown in **Figure 4**, whereas the time block wise MCP duration curve for the period 1<sup>st</sup> April, 2023 to 29<sup>th</sup> February, 2024 is shown in **Figure 5**.



**Figure – 4**



**Figure-5**

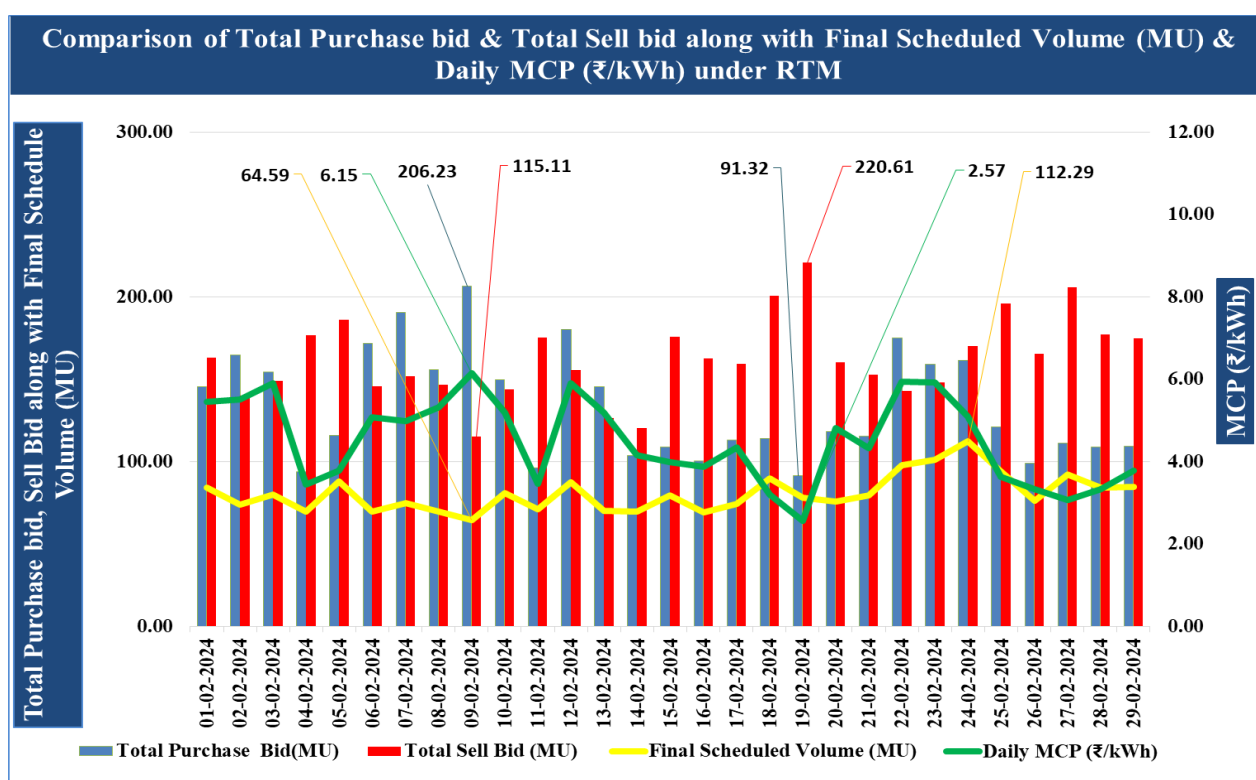
9.8. It can be seen in figure 4 above that in the MCP duration curve of February, 2024, for 27.00 % of the time MCP was above Wt. Avg. MCP of the month (i.e. ₹ 5.93/kWh) and almost 73.00 % of the time MCP was below the Wt. Avg. MCP of the month. Similarly, it can be seen in the MCP duration curve from 1<sup>st</sup> April, 2023 to 29<sup>th</sup> February, 2024 (figure-5), that for 35.00 % of the time the MCP was above the Wt. Avg. MCP for the period (i.e. ₹ 5.36/kWh) and for 65.00 % of the time the Daily Wt. Avg. MCP was below the Wt. Avg. MCP for the period.

9.9. The Purchase Bids and the MCP discovered in each of the 15-minute time block during the month almost followed the same trend [Annexure V]. This is also corroborated with the outcome of regression analysis mentioned at para 9.1 and 9.2 above.

- 9.10.** In February, 2024, the maximum FSV occurred mostly during the **time period 16-18 Hrs** (on 17 no. of days). Whereas, the maximum MCP occurred mostly during the **time period 06-07 Hrs** (on 13 no. of days). Similarly, the minimum FSV occurred mostly during the **time period 22-24 Hrs** (on 16 no. of days). Whereas, the minimum MCP occurred mostly during the **time period 03-04 Hrs** (on 14 no. of days). **[Annexure VI]**
- 9.11.** In February, 2024, there was congestion of **0.68 MU** in IEX and no congestion in PXIL & HPX. Further, in January, 2024, there was no congestion in IEX, PXIL & HPX. Further, in February, 2023, there was no congestion in IEX and no transaction of electricity took place in PXIL & HPX.
- 9.12.** In February, 2024, there was **no** real time curtailment in IEX, PXIL & HPX. Further, in January, 2024, there was **no** real time curtailment in IEX, PXIL & HPX. Further in February, 2023, there was **no** real time curtailment in IEX and no transaction of electricity took place in PXIL & HPX.
- 9.13.** The **top 10 sellers** on the power exchanges under Day Ahead Market (**DAM**) in February, 2024 were **Uttar Pradesh, Adani Power Limited-Raipur TPP, Rajasthan, Mahan Energy Limited, DB Power, Jindal Power Ltd. Stg-II, Odisha, Bihar, Adani Power Limited - Raigarh TPP and Gujarat**, which constituted **60.10 %** of the market volume. **[Annexure VII]**
- 9.14.** The **top 10 buyers** on the power exchanges under Day Ahead Market (**DAM**) in February, 2024 were **Telangana, Gujarat, Punjab, J&K, Druk Green Power Corporation Limited (DGPCL-Bhutan), Tamil Nadu, NVVN (SNA) – NEA, Uttar Pradesh, Haryana and Andhra Pradesh**, which constituted **77.12 %** of the market volume. **[Annexure VII]**
- 9.15.** The total volume of electricity purchased by Discoms/Licensees under DAM in February, 2024 was **4,084.14 MU**, which constituted **86.05 %** of total volume of electricity purchased on the power exchanges.
- 9.16.** Similarly, the total volume of electricity sold by Discoms/Licensees under DAM in February, 2024 was **2,453.55 MU**, which constituted **51.70 %** of total volume of electricity sold on the power exchanges.

## 10. Analysis of movement of prices observed under Real Time Market (RTM) transactions in February, 2024

- 10.1. Similar to the regression analysis carried out for Day Ahead Market, the regression analysis for Real Time Market was also done. The regression analysis revealed that the significant variable was the Coal Generation. Further, the regression analysis revealed that the elasticity of the Daily Wt. Avg. MCP with respect to Coal Generation was **8.74** in February, 2024.
- 10.2. The Purchase Bids and the MCP discovered in each of the 15-minute time block during the month almost followed the same trend [**Annexure IX**]. This is also corroborated with the outcome of regression analysis mentioned at **para 10.1 above**.
- 10.3. The Total Purchase Bid, Total Sell Bid, Daily Wt. Avg. MCP and FSV are shown in Figure-6 below:



**Figure-6**

- 10.4. A comparison of maximum, minimum, daily, evening time MCP is shown in **Figure-7**. The same are also tabulated in **Annexure-VIII**.

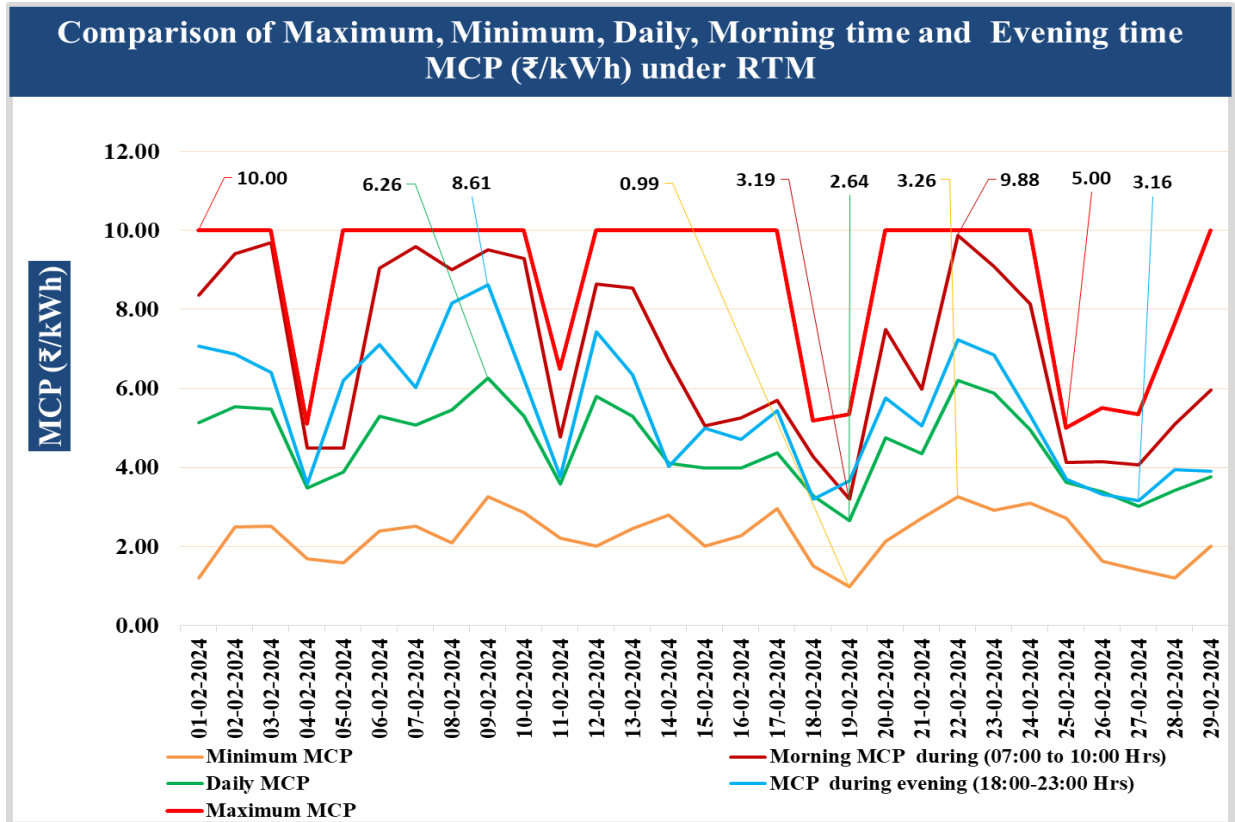


Figure-7

10.5. The Market Clearing Price duration curves for time block wise MCP for the month of February, 2024 is shown in **Figure 8**, whereas the day wise MCP duration curve for the period 1<sup>st</sup> April, 2023 to 29<sup>th</sup> February, 2024 is shown in **Figure 9**.

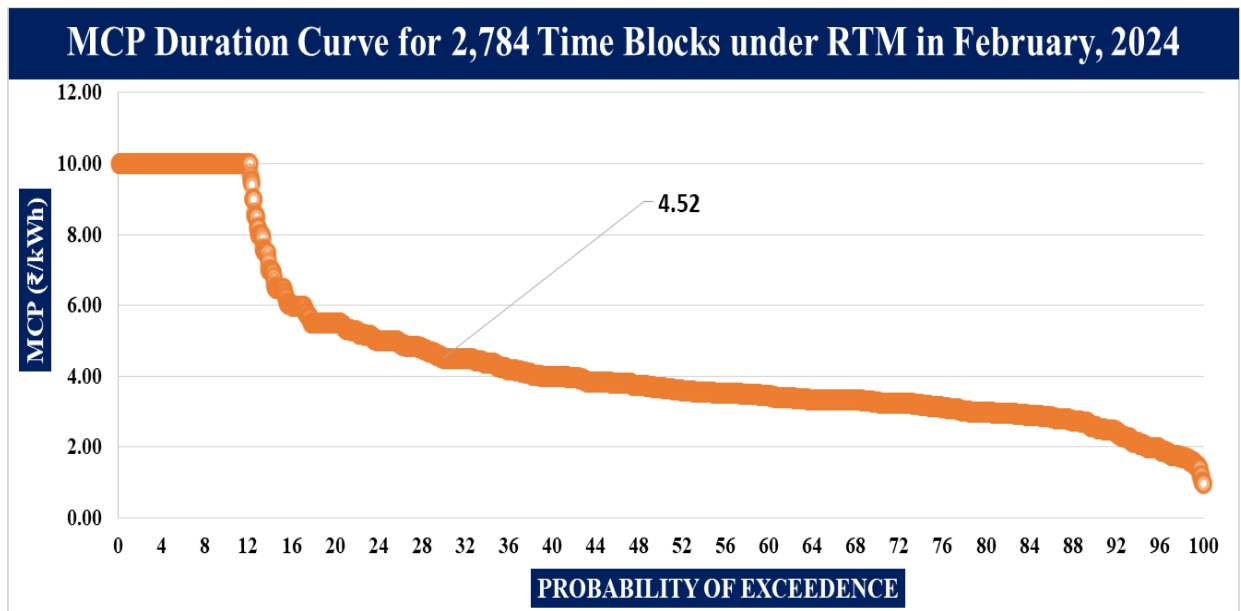
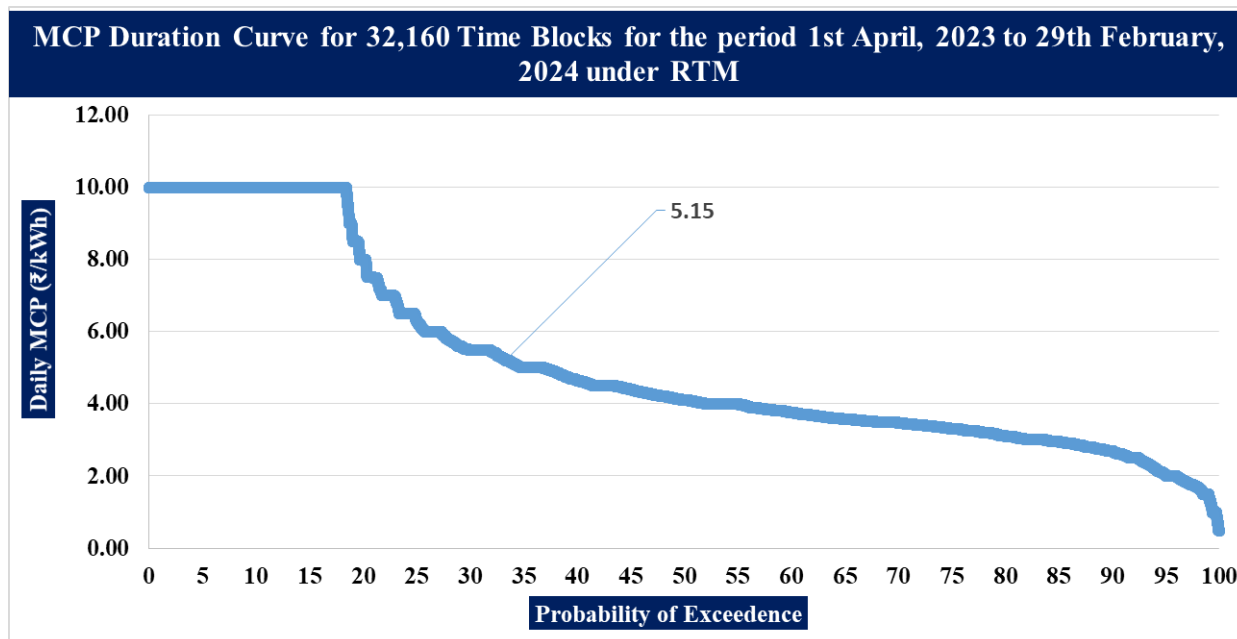


Figure-8



**Figure-9**

- 10.6.** It can be seen in figure 8 above that in the MCP duration curve of February, 2024, for 30.00 % of the time the MCP was above the Wt. Avg. MCP of the month (i.e. ₹ 4.52/kWh) and for 70.00 % of the time the MCP was below the Wt. Avg. MCP of the month. Similarly, it can be seen in the cumulative MCP duration curve from 1<sup>st</sup> April, 2023 to 29<sup>th</sup> February, 2024 (figure 9) that, for 35.00 % of the time the Daily Wt. Avg. MCP was above the Wt. Avg. MCP for the period (i.e. ₹ 5.15/kWh) and for 65.00 % of the time the Daily Wt. Avg. MCP was below the Wt. Avg. MCP for the period.
- 10.7.** In February, 2024, the maximum FSV occurred mostly during the **time period 15-18 Hrs** (on 9 no. of days). Whereas, the maximum MCP also occurred mostly during the **time period 06-08 Hrs** (on 18 no. of days). Similarly, the minimum FSV occurred mostly during the **time period 07-08 Hrs** (on 7 no. of days). Whereas, the minimum MCP occurred mostly during the **time period 03-04 Hrs** (on 9 no. of days).[Annexure X]
- 10.8.** There was **no** real time curtailment in IEX and no transaction took place in PXIL & HPX under Real Time Market (RTM) during February, 2024. Further, in January, 2024 **no** real time curtailment in IEX and no transaction took place in PXIL & HPX. Similarly, in February, 2023, there was **no** real time curtailment in IEX and no transaction took place in PXIL & HPX.
- 10.9.** In February, 2024, there was no congestion in IEX and no transaction took place in PXIL & HPX. Further, in January, 2024, there was no congestion in IEX and no transaction took place in PXIL & HPX. Similarly, in February, 2023, there was **no** congestion in IEX and no transaction took place in PXIL & HPX.

**10.10.** The **top 10 sellers** on the power exchanges under Real Time Market (RTM) in February, 2024 were **Rajasthan, Bihar, Odisha, Uttar Pradesh, Madhya Pradesh, West Bengal, NTPC North Karanpura STPS infirm ( UNIT # 2 ), Chhattisgarh, Delhi and Jharkhand**, which constituted **63.77 %** of the market volume. **[Annexure XI]**

**10.11.** The **top 10 buyers** on the power exchanges under Real Time Market (RTM) in February, 2024 were **Punjab, Kerala, Uttar Pradesh, Telangana, Tamil Nadu, Andhra Pradesh, J&K, Haryana, Maharashtra and Gujarat**, which constituted **76.55 %** of the market volume. **[Annexure XI]**

**10.12.** The total volume of electricity purchased by Discoms/Licensees under RTM in February, 2024 was **2,254.15 MU**, which constituted **96.33 %** of total volume of electricity purchased on the power exchanges.

**10.13.** Similarly, the total volume of electricity sold by Discoms/Licensees under RTM in February, 2024 was **1,755.69 MU**, which constituted **75.03 %** of total volume of electricity sold on the power exchanges.

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- Source DAM, GDAM, TAM, GTAM and RTM data: IEX, PXIL and HPX
  - Source Entity wise sale and purchase on PXs data: NLDC
  - Source Total Energy supplied: CEA
  - Source Generation & other data for Regression: NLDC and IEX

| Final Scheduled Volume, Wt. Avg. MCP and Real-Time Curtailment under Day Ahead Market (DAM) for the months of April, 2023 to February, 2024 of IEX, PXIL and HPX. |                          |                             |       |       |                               |       |       |                            |      |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|-------|-------|-------------------------------|-------|-------|----------------------------|------|------|
| Quarter                                                                                                                                                           | Months                   | Final Scheduled Volume (MU) |       |       | Market Clearing Price (₹/kWh) |       |       | Real Time Curtailment (MU) |      |      |
|                                                                                                                                                                   |                          | IEX                         | PXIL  | HPX   | IEX                           | PXIL  | HPX   | IEX                        | PXIL | HPX  |
| Quarter -I                                                                                                                                                        | April, 2023              | 4,408.93                    | 0     | 0     | 5.08                          | 0     | 0     | 0                          | 0    | 0    |
|                                                                                                                                                                   | May, 2023                | 3,999.76                    | 1.56  | 0     | 4.77                          | 6.94  | 0     | 0                          | 1.55 | 0    |
|                                                                                                                                                                   | June, 2023               | 4,123.34                    | 0.03  | 0     | 5.16                          | 10.00 | 0     | 0                          | 0    | 0    |
| Total Quarter -I                                                                                                                                                  | April - June, 2023       | 12,532.03                   | 1.59  | 0     | 5.01                          | 7.00  | 0     | 0                          | 1.55 | 0    |
| Quarter -II                                                                                                                                                       | July, 2023               | 3,966.20                    | 0     | 0     | 4.52                          | 0     | 0     | 0                          | 0    | 0    |
|                                                                                                                                                                   | August, 2023             | 3,881.41                    | 16.34 | 0.27  | 6.43                          | 9.33  | 10.00 | 0                          | 0    | 0    |
|                                                                                                                                                                   | September, 2023          | 3,405.42                    | 11.67 | 18.51 | 5.87                          | 10.00 | 10.00 | 0                          | 0    | 0    |
| Total Quarter -II                                                                                                                                                 | July - September, 2023   | 11,253.03                   | 28.01 | 18.78 | 5.59                          | 9.61  | 10.00 | 0.00                       | 0.00 | 0.00 |
| Quarter -III                                                                                                                                                      | October, 2023            | 4,688.35                    | 21.60 | 36.83 | 6.36                          | 10.00 | 10.00 | 0                          | 0    | 0    |
|                                                                                                                                                                   | November, 2023           | 5,196.16                    | 3.12  | 2.15  | 4.16                          | 9.36  | 10.00 | 0                          | 0    | 0    |
|                                                                                                                                                                   | December, 2023           | 4,757.55                    | 3.30  | 10.95 | 4.69                          | 9.54  | 10.00 | 0                          | 0    | 0    |
| Total Quarter -III                                                                                                                                                | October - December, 2023 | 14,642.06                   | 28.02 | 49.93 | 5.04                          | 9.87  | 10.00 | 0.00                       | 0.00 | 0.00 |
| Quarter -IV                                                                                                                                                       | January, 2024            | 5,561.85                    | 17.19 | 9.11  | 6.03                          | 10.00 | 10.00 | 0                          | 0    | 0    |
|                                                                                                                                                                   | February, 2024           | 4,741.75                    | 3.72  | 0.64  | 5.00                          | 9.70  | 10.00 | 0                          | 0    | 0    |
|                                                                                                                                                                   | March, 2024              |                             |       |       |                               |       |       |                            |      |      |
| Total Quarter -IV                                                                                                                                                 | January - March, 2024    | 10,303.60                   | 20.91 | 9.75  | 5.56                          | 9.95  | 10.00 | 0.00                       | 0.00 | 0.00 |
| Total April, 2023 – February, 2024                                                                                                                                |                          | 48,730.72                   | 78.53 | 78.46 | 5.27                          | 9.74  | 10.00 | 0.00                       | 1.55 | 0.00 |

**Annexure-II**

| Final Scheduled Volume under Term Ahead Market (TAM) for the months of April, 2023 to February, 2024 of IEX, PXIL and HPX (Delivery date basis) |                                 |                             |                 |                 |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------|-----------------|-----------------|------------------|
| Quarter                                                                                                                                         | Months                          | Final Scheduled Volume (MU) |                 |                 |                  |
|                                                                                                                                                 |                                 | IEX                         | PXIL            | HPX             | Total            |
| Quarter -I                                                                                                                                      | April, 2023                     | 317.91                      | 111.30          | 321.83          | 751.04           |
|                                                                                                                                                 | May, 2023                       | 607.72                      | 133.80          | 198.75          | 940.27           |
|                                                                                                                                                 | June, 2023                      | 322.49                      | 172.80          | 95.24           | 590.53           |
| <b>Total Quarter – I</b>                                                                                                                        | <b>April - June, 2023</b>       | <b>1,248.12</b>             | <b>417.90</b>   | <b>615.82</b>   | <b>2,281.84</b>  |
| Quarter -II                                                                                                                                     | July, 2023                      | 287.60                      | 20.40           | 154.02          | 462.02           |
|                                                                                                                                                 | August, 2023                    | 768.73                      | 287.36          | 355.21          | 1,411.30         |
|                                                                                                                                                 | September, 2023                 | 1,131.71                    | 1,017.15        | 516.10          | 2,664.96         |
| <b>Total Quarter – II</b>                                                                                                                       | <b>July - September, 2023</b>   | <b>2,188.04</b>             | <b>1,324.91</b> | <b>1,025.33</b> | <b>4,538.28</b>  |
| Quarter -III                                                                                                                                    | October, 2023                   | 1,677.00                    | 611.28          | 842.29          | 3,130.57         |
|                                                                                                                                                 | November, 2023                  | 642.96                      | 153.00          | 119.41          | 915.37           |
|                                                                                                                                                 | December, 2023                  | 1071.93                     | 23.42           | 103.64          | 1198.99          |
| <b>Total Quarter - III</b>                                                                                                                      | <b>October - December, 2023</b> | <b>3,391.89</b>             | <b>787.70</b>   | <b>1,065.34</b> | <b>5,244.93</b>  |
| Quarter -IV                                                                                                                                     | January, 2024                   | 1,103.79                    | 179.26          | 368.89          | 1,651.94         |
|                                                                                                                                                 | February, 2024                  | 1,369.55                    | 661.85          | 615.08          | 2,646.48         |
|                                                                                                                                                 | March, 2024                     |                             |                 |                 |                  |
| <b>Total Quarter - IV</b>                                                                                                                       | <b>January - March, 2024</b>    | <b>2,473.34</b>             | <b>841.11</b>   | <b>983.97</b>   | <b>4,298.42</b>  |
| <b>Total April, 2023 – February, 2024</b>                                                                                                       |                                 | <b>9,301.39</b>             | <b>3,371.62</b> | <b>3,690.46</b> | <b>16,363.47</b> |

## Top Five Entities (Buyers and Sellers) in Bilateral transactions in February, 2024

### (i) Top five Buyers in Bilateral transactions

| Entity Name                            | Direct        |               | Entity Name                      | Through Traders |               |
|----------------------------------------|---------------|---------------|----------------------------------|-----------------|---------------|
|                                        | (MU)          | Percent       |                                  | (MU)            | Percent       |
| Karnataka                              | 388.87        | 57.22%        | Tamil Nadu                       | 460.33          | 26.47%        |
| Jharkhand                              | 131.44        | 19.34%        | Rajasthan                        | 385.76          | 22.18%        |
| Daman and Diu - Dadra and Nagar Haveli | 55.68         | 8.19%         | Himachal Pradesh                 | 203.33          | 11.69%        |
| Odisha                                 | 48.06         | 7.07%         | Kerala                           | 187.92          | 10.80%        |
| Madhya Pradesh                         | 19.70         | 2.90%         | Maharashtra                      | 148.08          | 8.51%         |
| <b>Total Volume</b>                    | <b>643.74</b> | <b>94.72%</b> | <b>Total Volume</b>              | <b>1,385.43</b> | <b>79.65%</b> |
| <b>Total Volume in Bilateral</b>       | <b>679.62</b> |               | <b>Total Volume in Bilateral</b> | <b>1,739.31</b> |               |

### (ii) Top five Sellers in Bilateral transactions

| Entity Name                               | Direct        |               | Entity Name                        | Through Traders |               |
|-------------------------------------------|---------------|---------------|------------------------------------|-----------------|---------------|
|                                           | (MU)          | Percent       |                                    | (MU)            | Percent       |
| Andhra Pradesh                            | 309.77        | 45.58%        | Jindal India Thermal Power Limited | 187.92          | 10.80%        |
| ADHUNIK POWER & NATURAL RESOURCES LIMITED | 131.44        | 19.34%        | Jindal Power Limited, Stage-2      | 186.07          | 10.70%        |
| Uttar Pradesh                             | 89.50         | 13.17%        | Punjab                             | 141.86          | 8.16%         |
| Gujarat                                   | 55.68         | 8.19%         | R.K.M POWERGEN PRIVATE LIMITED     | 120.71          | 6.94%         |
| Jindal India Thermal Power Limited        | 41.76         | 6.14%         | Adani Power Limited- Raipur TPP    | 119.51          | 6.87%         |
| <b>Total Volume</b>                       | <b>628.14</b> | <b>92.42%</b> | <b>Total Volume</b>                | <b>756.07</b>   | <b>43.47%</b> |
| <b>Total Volume in Bilateral</b>          | <b>679.62</b> |               | <b>Total Volume in Bilateral</b>   | <b>1,739.31</b> |               |

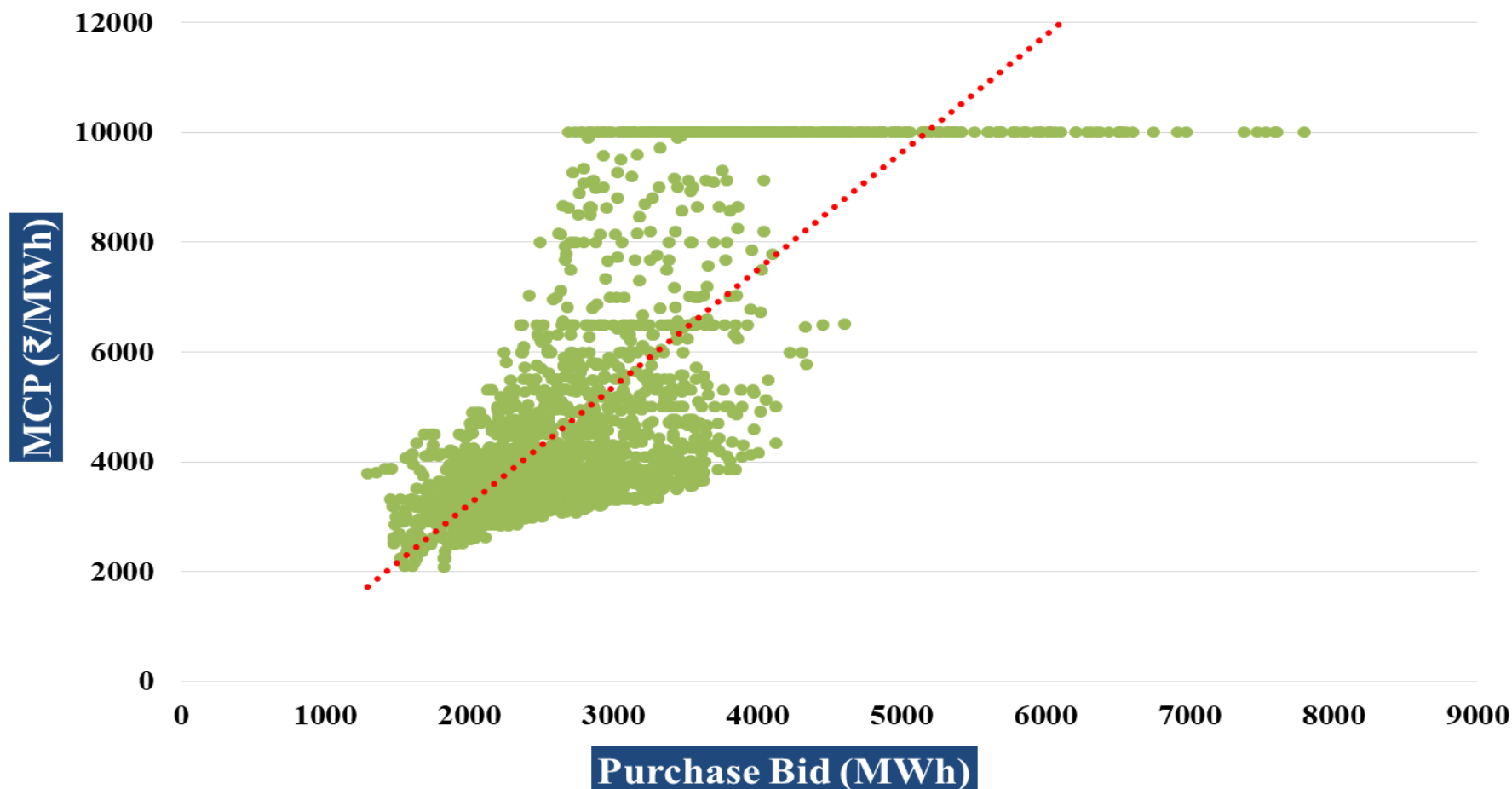
**Evening, Day, Night, Morning, Maximum, Minimum, Wt. Avg. MCP (₹/kWh) and Final Scheduled Volume (MU) under DAM**

| Date       | Morning MCP<br>(07:00-10:00) | Day MCP<br>(11:00-17:00) | Evening MCP<br>(18:00- 23:00) | Night MCP (01:00-<br>06:00, 23:00-24:00) | Maximum<br>MCP | Minimum<br>MCP | Wt. Avg.<br>MCP | Final Scheduled<br>Volume (MU) |
|------------|------------------------------|--------------------------|-------------------------------|------------------------------------------|----------------|----------------|-----------------|--------------------------------|
| 01-02-2024 | 9.69                         | 6.05                     | 8.51                          | 3.37                                     | 10.00          | 3.01           | 6.49            | 155.84                         |
| 02-02-2024 | 9.03                         | 4.69                     | 7.68                          | 3.00                                     | 10.00          | 2.51           | 5.67            | 153.31                         |
| 03-02-2024 | 9.54                         | 5.20                     | 7.98                          | 3.41                                     | 10.00          | 3.08           | 6.10            | 139.71                         |
| 04-02-2024 | 7.01                         | 3.73                     | 4.70                          | 2.71                                     | 10.00          | 2.10           | 4.22            | 143.24                         |
| 05-02-2024 | 8.99                         | 4.70                     | 7.74                          | 2.76                                     | 10.00          | 2.09           | 5.61            | 160.16                         |
| 06-02-2024 | 9.12                         | 4.33                     | 7.44                          | 2.81                                     | 10.00          | 2.09           | 5.46            | 170.89                         |
| 07-02-2024 | 9.36                         | 4.59                     | 7.59                          | 3.17                                     | 10.00          | 2.76           | 5.72            | 156.85                         |
| 08-02-2024 | 9.28                         | 4.53                     | 7.79                          | 3.05                                     | 10.00          | 2.59           | 5.70            | 162.06                         |
| 09-02-2024 | 9.32                         | 4.52                     | 8.04                          | 3.14                                     | 10.00          | 2.77           | 5.80            | 167.78                         |
| 10-02-2024 | 9.51                         | 3.97                     | 7.64                          | 3.38                                     | 10.00          | 3.08           | 5.64            | 159.08                         |
| 11-02-2024 | 7.06                         | 3.33                     | 4.21                          | 3.19                                     | 10.00          | 2.88           | 4.13            | 151.77                         |
| 12-02-2024 | 9.63                         | 4.61                     | 8.25                          | 3.04                                     | 10.00          | 2.59           | 5.90            | 177.34                         |
| 13-02-2024 | 9.48                         | 4.69                     | 7.96                          | 3.10                                     | 10.00          | 2.70           | 5.84            | 187.53                         |
| 14-02-2024 | 9.36                         | 4.08                     | 7.01                          | 3.13                                     | 10.00          | 2.89           | 5.42            | 176.51                         |
| 15-02-2024 | 8.04                         | 3.61                     | 6.34                          | 3.18                                     | 10.00          | 2.90           | 4.90            | 165.49                         |
| 16-02-2024 | 6.94                         | 3.86                     | 6.36                          | 3.04                                     | 10.00          | 2.52           | 4.76            | 162.60                         |
| 17-02-2024 | 5.29                         | 3.72                     | 5.39                          | 3.12                                     | 9.26           | 2.84           | 4.22            | 158.93                         |
| 18-02-2024 | 5.08                         | 3.38                     | 3.78                          | 3.25                                     | 6.50           | 2.85           | 3.73            | 127.30                         |
| 19-02-2024 | 5.97                         | 3.37                     | 4.65                          | 3.07                                     | 10.00          | 2.76           | 4.03            | 157.70                         |
| 20-02-2024 | 5.05                         | 3.59                     | 4.29                          | 3.14                                     | 9.00           | 2.84           | 3.88            | 155.10                         |
| 21-02-2024 | 5.56                         | 3.48                     | 4.22                          | 3.26                                     | 10.00          | 3.05           | 3.95            | 156.65                         |
| 22-02-2024 | 5.36                         | 3.59                     | 4.88                          | 3.29                                     | 10.00          | 3.14           | 4.12            | 184.73                         |
| 23-02-2024 | 7.73                         | 3.90                     | 6.17                          | 3.48                                     | 10.00          | 3.30           | 4.98            | 185.31                         |
| 24-02-2024 | 7.95                         | 4.10                     | 6.28                          | 3.54                                     | 10.00          | 3.31           | 5.12            | 191.37                         |
| 25-02-2024 | 4.96                         | 3.45                     | 3.89                          | 3.45                                     | 6.50           | 3.17           | 3.81            | 162.97                         |
| 26-02-2024 | 7.51                         | 4.39                     | 5.34                          | 3.24                                     | 10.00          | 2.98           | 4.81            | 188.66                         |
| 27-02-2024 | 5.12                         | 4.03                     | 4.31                          | 3.08                                     | 6.80           | 2.84           | 4.00            | 181.36                         |
| 28-02-2024 | 5.58                         | 3.67                     | 4.41                          | 2.98                                     | 10.00          | 2.62           | 3.97            | 147.76                         |
| 29-02-2024 | 8.34                         | 4.09                     | 5.17                          | 3.30                                     | 10.00          | 3.01           | 4.84            | 153.74                         |
| Maximum    | 9.69                         | 6.05                     | 8.51                          | 3.54                                     | 10.00          | 3.31           | 6.49            | 191.37                         |
| Minimum    | 4.96                         | 3.33                     | 3.78                          | 2.71                                     | 6.50           | 2.09           | 3.73            | 127.30                         |
| Average    | 7.62                         | 4.11                     | 6.14                          | 3.16                                     | 9.59           | 2.80           | 4.93            | 163.51                         |

MCP: Market Clearing Price (₹/kWh)

FSV: Final Scheduled Volume (MU)

## Comparison of MCP w.r.t. Purchase Bid for 2,784 Time Blocks during the month of February, 2024 under DAM



Time Blocks during the Month [96 time blocks in a day x 29 days = 2,784]

**Annexure-VI****Maximum Final Schedule Volume (FSV), Minimum FSV, Maximum Market Clearing Price (MCP) and Minimum MCP under DAM**

| Date       | Max. FSV (MU) |       | Max. MCP (₹/kWh) |       | Min FSV (MU)  |       | Min. MCP (₹/kWh) |       |
|------------|---------------|-------|------------------|-------|---------------|-------|------------------|-------|
|            | Time Block    | Value | Time Block       | Value | Time Block    | Value | Time Block       | Value |
| 01-02-2024 | 10:45 - 11:00 | 2.39  | 06:15 - 06:30    | 10.00 | 01:00 - 01:15 | 1.12  | 04:00 - 04:15    | 3.01  |
| 02-02-2024 | 10:15 - 10:30 | 2.30  | 06:45 - 07:00    | 10.00 | 04:15 - 04:30 | 1.10  | 04:00 - 04:15    | 2.51  |
| 03-02-2024 | 10:30 - 10:45 | 2.23  | 06:30 - 06:45    | 10.00 | 07:15 - 07:30 | 1.04  | 03:30 - 03:45    | 3.08  |
| 04-02-2024 | 07:30 - 07:45 | 2.02  | 07:30 - 07:45    | 10.00 | 23:00 - 23:15 | 1.20  | 03:45 - 04:00    | 2.10  |
| 05-02-2024 | 10:30 - 10:45 | 2.58  | 07:00 - 07:15    | 10.00 | 04:45 - 05:00 | 1.20  | 04:00 - 04:15    | 2.09  |
| 06-02-2024 | 10:00 - 10:15 | 2.45  | 06:45 - 07:00    | 10.00 | 23:00 - 23:15 | 1.46  | 04:00 - 04:15    | 2.09  |
| 07-02-2024 | 10:00 - 10:15 | 2.15  | 06:30 - 06:45    | 10.00 | 08:15 - 08:30 | 1.15  | 04:00 - 04:15    | 2.76  |
| 08-02-2024 | 17:00 - 17:15 | 2.40  | 06:30 - 06:45    | 10.00 | 19:15 - 19:30 | 1.30  | 03:45 - 04:00    | 2.59  |
| 09-02-2024 | 16:15 - 16:30 | 2.57  | 06:30 - 06:45    | 10.00 | 08:30 - 08:45 | 1.25  | 04:00 - 04:15    | 2.77  |
| 10-02-2024 | 16:45 - 17:00 | 2.33  | 06:30 - 06:45    | 10.00 | 04:45 - 05:00 | 1.18  | 13:15 - 13:30    | 3.08  |
| 11-02-2024 | 07:15 - 07:30 | 2.13  | 07:15 - 07:30    | 10.00 | 05:30 - 05:45 | 1.16  | 14:45 - 15:00    | 2.88  |
| 12-02-2024 | 16:30 - 16:45 | 2.58  | 06:30 - 06:45    | 10.00 | 19:00 - 19:15 | 1.44  | 03:15 - 03:30    | 2.59  |
| 13-02-2024 | 16:30 - 16:45 | 2.75  | 06:30 - 06:45    | 10.00 | 19:15 - 19:30 | 1.47  | 03:15 - 03:30    | 2.70  |
| 14-02-2024 | 16:15 - 16:30 | 2.53  | 06:30 - 06:45    | 10.00 | 23:00 - 23:15 | 1.27  | 03:45 - 04:00    | 2.89  |
| 15-02-2024 | 06:45 - 07:00 | 2.60  | 06:45 - 07:00    | 10.00 | 23:00 - 23:15 | 1.18  | 03:45 - 04:00    | 2.90  |
| 16-02-2024 | 16:15 - 16:30 | 2.43  | 07:30 - 07:45    | 10.00 | 22:45 - 23:00 | 1.20  | 03:30 - 03:45    | 2.52  |
| 17-02-2024 | 17:00 - 17:15 | 2.44  | 19:00 - 19:15    | 9.26  | 22:45 - 23:00 | 1.23  | 03:45 - 04:00    | 2.84  |
| 18-02-2024 | 06:00 - 06:15 | 1.66  | 07:30 - 07:45    | 6.50  | 22:30 - 22:45 | 0.99  | 13:15 - 13:30    | 2.85  |
| 19-02-2024 | 16:15 - 16:30 | 2.24  | 07:30 - 07:45    | 10.00 | 22:45 - 23:00 | 1.25  | 03:00 - 03:15    | 2.76  |
| 20-02-2024 | 17:00 - 17:15 | 2.41  | 07:45 - 08:00    | 9.00  | 22:15 - 22:30 | 1.18  | 03:45 - 04:00    | 2.84  |
| 21-02-2024 | 16:45 - 17:00 | 2.40  | 07:45 - 08:00    | 10.00 | 23:00 - 23:15 | 1.11  | 13:15 - 13:30    | 3.05  |
| 22-02-2024 | 17:00 - 17:15 | 2.94  | 08:00 - 08:15    | 10.00 | 13:00 - 13:15 | 1.25  | 03:30 - 03:45    | 3.14  |
| 23-02-2024 | 17:00 - 17:15 | 2.82  | 07:00 - 07:15    | 10.00 | 22:00 - 22:15 | 1.35  | 13:15 - 13:30    | 3.30  |
| 24-02-2024 | 17:00 - 17:15 | 2.98  | 07:00 - 07:15    | 10.00 | 19:15 - 19:30 | 1.52  | 13:15 - 13:30    | 3.31  |
| 25-02-2024 | 06:45 - 07:00 | 2.26  | 06:30 - 06:45    | 6.50  | 22:45 - 23:00 | 1.19  | 13:15 - 13:30    | 3.17  |
| 26-02-2024 | 17:00 - 17:15 | 2.84  | 07:00 - 07:15    | 10.00 | 22:45 - 23:00 | 1.53  | 03:45 - 04:00    | 2.98  |
| 27-02-2024 | 16:45 - 17:00 | 2.74  | 19:00 - 19:15    | 6.80  | 23:00 - 23:15 | 1.40  | 02:45 - 03:00    | 2.84  |
| 28-02-2024 | 09:45 - 10:00 | 2.00  | 07:15 - 07:30    | 10.00 | 22:45 - 23:00 | 1.06  | 04:00 - 04:15    | 2.62  |
| 29-02-2024 | 16:45 - 17:00 | 2.22  | 07:00 - 07:15    | 10.00 | 22:45 - 23:00 | 1.22  | 03:30 - 03:45    | 3.01  |

**MCP: Market Clearing Price (₹/kWh)****FSV: Final Scheduled Volume (MU)**

**Annexure-VII**

| Sellers and Buyers under Day Ahead Market (DAM) in February, 2024 |                    |        |             |                       |          |             |
|-------------------------------------------------------------------|--------------------|--------|-------------|-----------------------|----------|-------------|
| S. No.                                                            | Entity Name        | Sell   |             | Entity Name           | Purchase |             |
|                                                                   |                    | (MU)   | Percent (%) |                       | (MU)     | Percent (%) |
| 1                                                                 | Uttar Pradesh      | 740.36 | 15.60%      | Telangana             | 626.44   | 13.20%      |
| 2                                                                 | Adani Power        | 321.90 | 6.78%       | Gujarat               | 618.62   | 13.03%      |
| 3                                                                 | Rajasthan          | 297.24 | 6.26%       | Punjab                | 503.34   | 10.61%      |
| 4                                                                 | Mahan Energy       | 265.18 | 5.59%       | J&K                   | 421.16   | 8.87%       |
| 5                                                                 | DB Power           | 234.92 | 4.95%       | Druk Green Power      | 338.24   | 7.13%       |
| 6                                                                 | Jindal Power Ltd.  | 224.95 | 4.74%       | Tamil Nadu            | 308.03   | 6.49%       |
| 7                                                                 | Odisha             | 218.11 | 4.60%       | NVVN (SNA) - NEA      | 244.17   | 5.14%       |
| 8                                                                 | Bihar              | 192.04 | 4.05%       | Uttar Pradesh         | 231.22   | 4.87%       |
| 9                                                                 | Adani Power        | 182.31 | 3.84%       | Haryana               | 194.14   | 4.09%       |
| 10                                                                | Gujarat            | 175.25 | 3.69%       | Andhra Pradesh        | 174.88   | 3.68%       |
| 11                                                                | Telangana          | 161.05 | 3.39%       | Daman & Diu - Dadra & | 151.66   | 3.20%       |
| 12                                                                | JITPL              | 127.93 | 2.70%       | Uttarakhand           | 148.21   | 3.12%       |
| 13                                                                | Delhi              | 126.96 | 2.68%       | Maharashtra           | 121.46   | 2.56%       |
| 14                                                                | Jindal Steel       | 119.78 | 2.52%       | Madhya Pradesh        | 119.96   | 2.53%       |
| 15                                                                | Jindal Power       | 101.78 | 2.14%       | Kerala                | 113.72   | 2.40%       |
| 16                                                                | West Bengal        | 97.06  | 2.05%       | Karnataka             | 93.71    | 1.97%       |
| 17                                                                | Chhattisgarh       | 96.64  | 2.04%       | NEA-NR                | 34.83    | 0.73%       |
| 18                                                                | Madhya Pradesh     | 80.13  | 1.69%       | Delhi                 | 32.85    | 0.69%       |
| 19                                                                | Nabinagar Power    | 75.28  | 1.59%       | Goa WR                | 30.49    | 0.64%       |
| 20                                                                | ACBIL              | 60.90  | 1.28%       | Odisha                | 29.82    | 0.63%       |
| 21                                                                | Jaypee Nigrie      | 59.80  | 1.26%       | Rajasthan             | 28.42    | 0.60%       |
| 22                                                                | Tamil Nadu         | 50.25  | 1.06%       | West Bengal           | 27.47    | 0.58%       |
| 23                                                                | MB Power           | 45.61  | 0.96%       | Meghalaya             | 27.02    | 0.57%       |
| 24                                                                | Himachal Pradesh   | 44.08  | 0.93%       | ArcelorMittal Nippon  | 22.92    | 0.48%       |
| 25                                                                | Maharashtra        | 42.37  | 0.89%       | Railways              | 20.25    | 0.43%       |
| 26                                                                | Andhra Pradesh     | 36.83  | 0.78%       | Himachal Pradesh      | 16.76    | 0.35%       |
| 27                                                                | Renew Surya Ravi   | 34.64  | 0.73%       | Assam                 | 12.50    | 0.26%       |
| 28                                                                | Pondicherry        | 33.29  | 0.70%       | Goa SR                | 10.01    | 0.21%       |
| 29                                                                | Sembcorp Gayatri   | 30.36  | 0.64%       | Jharkhand             | 9.38     | 0.20%       |
| 30                                                                | IND BARATH         | 30.17  | 0.64%       | Chhattisgarh          | 9.13     | 0.19%       |
| 31                                                                | ADANI WIND         | 29.38  | 0.62%       | Chandigarh            | 6.55     | 0.14%       |
| 32                                                                | Sembcorp Energy    | 24.37  | 0.51%       | Arunachal Pradesh     | 6.40     | 0.13%       |
| 33                                                                | Shree Cement       | 23.88  | 0.50%       | Bihar                 | 4.07     | 0.09%       |
| 34                                                                | Farakka            | 20.16  | 0.42%       | Nagaland              | 3.62     | 0.08%       |
| 35                                                                | DVC                | 17.88  | 0.38%       | Manipur               | 1.80     | 0.04%       |
| 36                                                                | RENEW SURYA        | 17.11  | 0.36%       | Sikkim                | 1.22     | 0.03%       |
| 37                                                                | RKM Power          | 16.12  | 0.34%       | BHARAT ALUMINIUM      | 0.99     | 0.02%       |
| 38                                                                | Jhabua Power       | 15.14  | 0.32%       | IND BARATH ENERGY     | 0.38     | 0.01%       |
| 39                                                                | Karcham Wangtoo    | 14.93  | 0.31%       | Jhabua Power          | 0.19     | 0.004%      |
| 40                                                                | Harvana            | 14.84  | 0.31%       | Pondicherry           | 0.08     | 0.002%      |
| 41                                                                | Chandigarh         | 13.77  | 0.29%       |                       |          |             |
| 42                                                                | ADANI SOLAR        | 13.41  | 0.28%       |                       |          |             |
| 43                                                                | Amp Energy Green   | 12.48  | 0.26%       |                       |          |             |
| 44                                                                | GMR Warora         | 12.33  | 0.26%       |                       |          |             |
| 45                                                                | Onevolt Energy     | 11.65  | 0.25%       |                       |          |             |
| 46                                                                | DHARIWAL STU       | 11.34  | 0.24%       |                       |          |             |
| 47                                                                | RENEW SURYA        | 11.27  | 0.24%       |                       |          |             |
| 48                                                                | SKS Power          | 11.20  | 0.24%       |                       |          |             |
| 49                                                                | Simhapuri Energy   | 10.88  | 0.23%       |                       |          |             |
| 50                                                                | DGEN Mega Power    | 10.32  | 0.22%       |                       |          |             |
| 51                                                                | AD Hydro           | 10.19  | 0.21%       |                       |          |             |
| 52                                                                | RENEW SURYA        | 8.95   | 0.19%       |                       |          |             |
| 53                                                                | Adani Green Energy | 8.58   | 0.18%       |                       |          |             |
| 54                                                                | Dhariwal ISTS      | 8.39   | 0.18%       |                       |          |             |
| 55                                                                | Ramagundam         | 6.87   | 0.14%       |                       |          |             |

|                               |                      |                 |               |                               |                 |               |
|-------------------------------|----------------------|-----------------|---------------|-------------------------------|-----------------|---------------|
| 56                            | Grian Energy Private | 6.63            | 0.14%         |                               |                 |               |
| 57                            | Maruti Clean Coal    | 5.18            | 0.11%         |                               |                 |               |
| 58                            | WIND FIVE            | 4.81            | 0.10%         |                               |                 |               |
| 59                            | Saini HEP            | 4.76            | 0.10%         |                               |                 |               |
| 60                            | BALCO 2              | 4.55            | 0.10%         |                               |                 |               |
| 61                            | Adept Renewable      | 4.16            | 0.09%         |                               |                 |               |
| 62                            | Sorang HEP,          | 4.14            | 0.09%         |                               |                 |               |
| 63                            | Ostro Kannada        | 4.12            | 0.09%         |                               |                 |               |
| 64                            | Nagaland             | 3.93            | 0.08%         |                               |                 |               |
| 65                            | Barh Stg-2           | 3.85            | 0.08%         |                               |                 |               |
| 66                            | RENEW SURYA          | 3.09            | 0.07%         |                               |                 |               |
| 67                            | J&K                  | 2.87            | 0.06%         |                               |                 |               |
| 68                            | Talcher Stg-2        | 2.47            | 0.05%         |                               |                 |               |
| 69                            | Meghalaya            | 2.35            | 0.05%         |                               |                 |               |
| 70                            | TRN Energy           | 2.35            | 0.05%         |                               |                 |               |
| 71                            | Singoli Bhagwati     | 2.11            | 0.04%         |                               |                 |               |
| 72                            | Kerala               | 2.09            | 0.04%         |                               |                 |               |
| 73                            | Barh STPS Stg - I    | 1.86            | 0.04%         |                               |                 |               |
| 74                            | Simhadri FSP 15      | 1.76            | 0.04%         |                               |                 |               |
| 75                            | RENEW SURYA          | 1.65            | 0.03%         |                               |                 |               |
| 76                            | Manipur              | 1.61            | 0.03%         |                               |                 |               |
| 77                            | IL&FS                | 1.46            | 0.03%         |                               |                 |               |
| 78                            | Dadri TPS            | 1.27            | 0.03%         |                               |                 |               |
| 79                            | NTPC Simhadri 25     | 1.18            | 0.02%         |                               |                 |               |
| 80                            | Uttarakhand          | 1.16            | 0.02%         |                               |                 |               |
| 81                            | Tripura              | 0.78            | 0.02%         |                               |                 |               |
| 82                            | Kahalgaoon           | 0.71            | 0.01%         |                               |                 |               |
| 83                            | NTPC Kudgi           | 0.65            | 0.01%         |                               |                 |               |
| 84                            | Goa WR               | 0.60            | 0.01%         |                               |                 |               |
| 85                            | NTPC Sholapur        | 0.47            | 0.01%         |                               |                 |               |
| 86                            | Lanco Budhil         | 0.46            | 0.01%         |                               |                 |               |
| 87                            | Darlipalli           | 0.46            | 0.01%         |                               |                 |               |
| 88                            | Simhadri Stg-2       | 0.41            | 0.01%         |                               |                 |               |
| 89                            | ADANI                | 0.37            | 0.01%         |                               |                 |               |
| 90                            | Dadri Stg-2          | 0.36            | 0.01%         |                               |                 |               |
| 91                            | Bongaigaon           | 0.34            | 0.01%         |                               |                 |               |
| 92                            | Costal Energen       | 0.34            | 0.01%         |                               |                 |               |
| 93                            | Kameng HEP           | 0.31            | 0.01%         |                               |                 |               |
| 94                            | Kopili Power Station | 0.29            | 0.01%         |                               |                 |               |
| 95                            | Ramagundam Stg-3     | 0.27            | 0.01%         |                               |                 |               |
| 96                            | NTPC North           | 0.26            | 0.01%         |                               |                 |               |
| 97                            | GMR Kamalanga        | 0.25            | 0.01%         |                               |                 |               |
| 98                            | Ramagundam Stg-1     | 0.18            | 0.004%        |                               |                 |               |
| 99                            | Talcher              | 0.15            | 0.003%        |                               |                 |               |
| 100                           | Korba Stg 3          | 0.07            | 0.001%        |                               |                 |               |
| 101                           | Palatana             | 0.06            | 0.001%        |                               |                 |               |
| 102                           | Unchahar-IV          | 0.05            | 0.001%        |                               |                 |               |
| 103                           | Unchahar-II          | 0.05            | 0.001%        |                               |                 |               |
| 104                           | Khargone STPP        | 0.04            | 0.001%        |                               |                 |               |
| 105                           | Kahalgaoon-II        | 0.04            | 0.001%        |                               |                 |               |
| 106                           | KBUNL(MTPS-II)       | 0.03            | 0.001%        |                               |                 |               |
| 107                           | IGSTPS JHAJJAR       | 0.02            | 0.0005%       |                               |                 |               |
| 108                           | NTPC Telangana       | 0.01            | 0.0003%       |                               |                 |               |
| 109                           | Unchahar-I           | 0.01            | 0.0003%       |                               |                 |               |
| 110                           | ADHUNIK POWER        | 0.01            | 0.0002%       |                               |                 |               |
| 111                           | Neyveli New          | 0.01            | 0.0002%       |                               |                 |               |
| 112                           | NTPC Gadarwara       | 0.01            | 0.0001%       |                               |                 |               |
| 113                           | Unchahar-III         | 0.01            | 0.0001%       |                               |                 |               |
| <b>Total Volume of top 10</b> |                      | <b>2,852.25</b> | <b>60.10%</b> | <b>Total Volume of top 10</b> | <b>3,660.22</b> | <b>77.12%</b> |
| <b>Total Volume in PXs</b>    |                      | <b>4,746.10</b> |               | <b>Total Volume in PXs</b>    | <b>4,746.10</b> |               |

**Annexure-VIII**

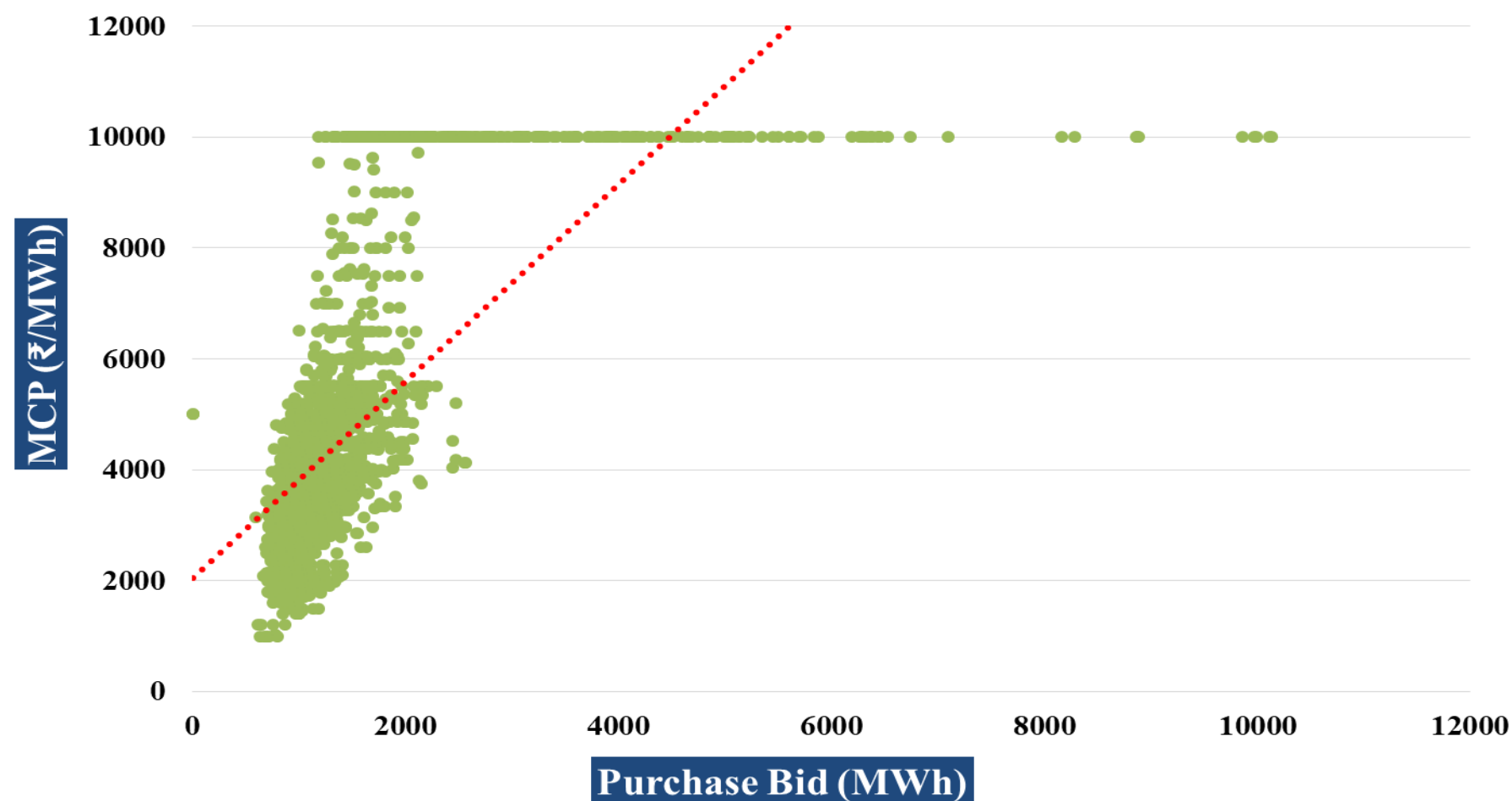
**Evening, Day, Night, Morning, Maximum, Minimum, Wt. Avg. MCP (₹/kWh) and Final Scheduled Volume (MU) under RTM**

| Date       | Morning MCP<br>(07:00-10:00) | Day MCP<br>(11:00-17:00) | Evening MCP<br>(18:00- 23:00) | Night MCP (01:00-<br>06:00, 23:00-24:00) | Maximum<br>MCP | Minimum<br>MCP | Wt. Avg.<br>MCP | Final Scheduled<br>Volume (MU) |
|------------|------------------------------|--------------------------|-------------------------------|------------------------------------------|----------------|----------------|-----------------|--------------------------------|
| 01-02-2024 | 8.37                         | 4.29                     | 7.07                          | 2.48                                     | 10.00          | 1.20           | 5.14            | 84.27                          |
| 02-02-2024 | 9.41                         | 4.69                     | 6.86                          | 3.01                                     | 10.00          | 2.50           | 5.53            | 73.66                          |
| 03-02-2024 | 9.70                         | 4.56                     | 6.40                          | 3.21                                     | 10.00          | 2.52           | 5.48            | 79.72                          |
| 04-02-2024 | 4.48                         | 3.53                     | 3.58                          | 2.81                                     | 5.10           | 1.69           | 3.49            | 69.40                          |
| 05-02-2024 | 4.50                         | 3.34                     | 6.21                          | 2.09                                     | 10.00          | 1.58           | 3.89            | 87.82                          |
| 06-02-2024 | 9.04                         | 3.94                     | 7.11                          | 2.94                                     | 10.00          | 2.40           | 5.29            | 69.75                          |
| 07-02-2024 | 9.58                         | 3.73                     | 6.02                          | 3.02                                     | 10.00          | 2.51           | 5.07            | 74.70                          |
| 08-02-2024 | 9.00                         | 3.58                     | 8.16                          | 3.00                                     | 10.00          | 2.09           | 5.46            | 69.49                          |
| 09-02-2024 | 9.52                         | 4.98                     | 8.61                          | 3.67                                     | 10.00          | 3.26           | 6.26            | 64.59                          |
| 10-02-2024 | 9.28                         | 4.06                     | 6.22                          | 3.48                                     | 10.00          | 2.85           | 5.30            | 80.75                          |
| 11-02-2024 | 4.78                         | 3.39                     | 3.77                          | 2.91                                     | 6.50           | 2.20           | 3.58            | 71.02                          |
| 12-02-2024 | 8.65                         | 6.04                     | 7.44                          | 2.52                                     | 10.00          | 2.00           | 5.80            | 87.42                          |
| 13-02-2024 | 8.54                         | 4.71                     | 6.34                          | 3.14                                     | 10.00          | 2.45           | 5.30            | 70.09                          |
| 14-02-2024 | 6.71                         | 3.74                     | 4.03                          | 3.06                                     | 10.00          | 2.80           | 4.11            | 69.57                          |
| 15-02-2024 | 5.06                         | 3.61                     | 4.98                          | 2.86                                     | 10.00          | 2.00           | 3.98            | 79.49                          |
| 16-02-2024 | 5.26                         | 3.65                     | 4.72                          | 2.94                                     | 10.00          | 2.27           | 3.98            | 69.31                          |
| 17-02-2024 | 5.69                         | 3.76                     | 5.43                          | 3.35                                     | 10.00          | 2.96           | 4.38            | 74.15                          |
| 18-02-2024 | 4.26                         | 2.73                     | 3.20                          | 3.37                                     | 5.18           | 1.50           | 3.29            | 89.95                          |
| 19-02-2024 | 3.19                         | 2.12                     | 3.66                          | 1.98                                     | 5.34           | 0.99           | 2.64            | 77.93                          |
| 20-02-2024 | 7.49                         | 3.76                     | 5.76                          | 3.30                                     | 10.00          | 2.14           | 4.75            | 75.61                          |
| 21-02-2024 | 5.98                         | 3.70                     | 5.05                          | 3.34                                     | 10.00          | 2.71           | 4.34            | 79.26                          |
| 22-02-2024 | 9.88                         | 5.65                     | 7.24                          | 3.75                                     | 10.00          | 3.26           | 6.20            | 97.61                          |
| 23-02-2024 | 9.08                         | 5.66                     | 6.84                          | 3.48                                     | 10.00          | 2.92           | 5.89            | 100.93                         |
| 24-02-2024 | 8.14                         | 4.29                     | 5.31                          | 3.48                                     | 10.00          | 3.10           | 4.95            | 112.29                         |
| 25-02-2024 | 4.13                         | 3.71                     | 3.70                          | 3.16                                     | 5.00           | 2.71           | 3.62            | 94.01                          |
| 26-02-2024 | 4.14                         | 4.05                     | 3.33                          | 2.31                                     | 5.50           | 1.62           | 3.37            | 76.18                          |
| 27-02-2024 | 4.07                         | 3.10                     | 3.16                          | 2.24                                     | 5.35           | 1.40           | 3.02            | 92.13                          |
| 28-02-2024 | 5.09                         | 3.29                     | 3.95                          | 2.16                                     | 7.62           | 1.20           | 3.42            | 84.23                          |
| 29-02-2024 | 5.96                         | 3.08                     | 3.90                          | 3.04                                     | 10.00          | 2.00           | 3.75            | 84.59                          |
| Maximum    | 9.88                         | 6.04                     | 8.61                          | 3.75                                     | 10.00          | 3.26           | 6.26            | 112.29                         |
| Minimum    | 3.19                         | 2.12                     | 3.16                          | 1.98                                     | 5.00           | 0.99           | 2.64            | 64.59                          |
| Average    | 6.86                         | 3.96                     | 5.45                          | 2.97                                     | 8.81           | 2.24           | 4.53            | 80.69                          |

MCP: Market Clearing Price (₹/kWh)

FSV: Final Scheduled Volume (MU)

## Comparison of MCP w.r.t. Purchase Bid for 2,784 Time Blocks during the month of February, 2024 under RTM



**Maximum Final Schedule Volume (FSV), Minimum FSV, Maximum Market Clearing Price (MCP) and Minimum MCP under RTM**

| Date       | Max. FSV (MU) |       | Max. MCP (₹/kWh) |       | Min FSV (MU)  |       | Min. MCP (₹/kWh) |       |
|------------|---------------|-------|------------------|-------|---------------|-------|------------------|-------|
|            | Time Block    | Value | Time Block       | Value | Time Block    | Value | Time Block       | Value |
| 01-02-2024 | 07:00 - 07:15 | 1.38  | 07:00 - 07:15    | 10.00 | 23:45 - 24:00 | 0.51  | 03:45 - 04:00    | 1.20  |
| 02-02-2024 | 12:15 - 12:30 | 1.33  | 06:30 - 06:45    | 10.00 | 09:00 - 09:15 | 0.37  | 14:30 - 14:45    | 2.50  |
| 03-02-2024 | 19:45 - 20:00 | 1.54  | 06:15 - 06:30    | 10.00 | 00:00 - 00:15 | 0.46  | 21:45 - 22:00    | 2.52  |
| 04-02-2024 | 23:30 - 23:45 | 1.06  | 08:30 - 08:45    | 5.10  | 07:15 - 07:30 | 0.51  | 23:45 - 24:00    | 1.69  |
| 05-02-2024 | 08:00 - 08:15 | 1.31  | 18:15 - 18:30    | 10.00 | 19:00 - 19:15 | 0.52  | 04:00 - 04:15    | 1.58  |
| 06-02-2024 | 21:45 - 22:00 | 1.06  | 07:00 - 07:15    | 10.00 | 18:15 - 18:30 | 0.41  | 03:15 - 03:30    | 2.40  |
| 07-02-2024 | 17:00 - 17:15 | 1.30  | 06:30 - 06:45    | 10.00 | 07:15 - 07:30 | 0.43  | 03:15 - 03:30    | 2.51  |
| 08-02-2024 | 11:45 - 12:00 | 1.14  | 06:30 - 06:45    | 10.00 | 00:45 - 01:00 | 0.45  | 13:30 - 13:45    | 2.09  |
| 09-02-2024 | 05:45 - 06:00 | 1.16  | 06:30 - 06:45    | 10.00 | 03:15 - 03:30 | 0.39  | 03:15 - 03:30    | 3.26  |
| 10-02-2024 | 15:00 - 15:15 | 1.20  | 06:15 - 06:30    | 10.00 | 07:15 - 07:30 | 0.45  | 23:00 - 23:15    | 2.85  |
| 11-02-2024 | 05:45 - 06:00 | 1.00  | 07:15 - 07:30    | 6.50  | 07:30 - 07:45 | 0.38  | 22:00 - 22:15    | 2.20  |
| 12-02-2024 | 17:00 - 17:15 | 1.29  | 07:00 - 07:15    | 10.00 | 04:45 - 05:00 | 0.59  | 00:00 - 00:15    | 2.00  |
| 13-02-2024 | 06:15 - 06:30 | 1.17  | 06:45 - 07:00    | 10.00 | 07:15 - 07:30 | 0.35  | 00:00 - 00:15    | 2.45  |
| 14-02-2024 | 08:15 - 08:30 | 0.94  | 07:15 - 07:30    | 10.00 | 00:45 - 01:00 | 0.48  | 13:15 - 13:30    | 2.80  |
| 15-02-2024 | 17:30 - 17:45 | 1.21  | 18:30 - 18:45    | 10.00 | 06:45 - 07:00 | 0.49  | 04:00 - 04:15    | 2.00  |
| 16-02-2024 | 05:45 - 06:00 | 1.07  | 19:00 - 19:15    | 10.00 | 07:45 - 08:00 | 0.47  | 03:45 - 04:00    | 2.27  |
| 17-02-2024 | 05:45 - 06:00 | 1.19  | 18:45 - 19:00    | 10.00 | 00:45 - 01:00 | 0.56  | 02:30 - 02:45    | 2.96  |
| 18-02-2024 | 16:30 - 16:45 | 1.44  | 07:15 - 07:30    | 5.18  | 20:00 - 20:15 | 0.63  | 13:30 - 13:45    | 1.50  |
| 19-02-2024 | 16:15 - 16:30 | 1.31  | 19:00 - 19:15    | 5.34  | 20:15 - 20:30 | 0.51  | 13:30 - 13:45    | 0.99  |
| 20-02-2024 | 22:00 - 22:15 | 1.12  | 07:00 - 07:15    | 10.00 | 04:45 - 05:00 | 0.50  | 13:15 - 13:30    | 2.14  |
| 21-02-2024 | 15:00 - 15:15 | 1.16  | 18:45 - 19:00    | 10.00 | 12:00 - 12:15 | 0.55  | 03:15 - 03:30    | 2.71  |
| 22-02-2024 | 12:00 - 12:15 | 1.65  | 06:15 - 06:30    | 10.00 | 07:30 - 07:45 | 0.48  | 03:45 - 04:00    | 3.26  |
| 23-02-2024 | 14:45 - 15:00 | 1.75  | 07:00 - 07:15    | 10.00 | 03:45 - 04:00 | 0.52  | 03:15 - 03:30    | 2.92  |
| 24-02-2024 | 15:00 - 15:15 | 2.13  | 06:30 - 06:45    | 10.00 | 03:45 - 04:00 | 0.57  | 03:00 - 03:15    | 3.10  |
| 25-02-2024 | 13:15 - 13:30 | 1.33  | 16:45 - 17:00    | 5.00  | 19:15 - 19:30 | 0.65  | 01:45 - 02:00    | 2.71  |
| 26-02-2024 | 06:15 - 06:30 | 1.14  | 10:30 - 10:45    | 5.50  | 19:45 - 20:00 | 0.48  | 02:00 - 02:15    | 1.62  |
| 27-02-2024 | 17:00 - 17:15 | 1.32  | 17:00 - 17:15    | 5.35  | 09:30 - 09:45 | 0.72  | 01:15 - 01:30    | 1.40  |
| 28-02-2024 | 14:45 - 15:00 | 1.48  | 09:15 - 09:30    | 7.62  | 08:15 - 08:30 | 0.46  | 00:15 - 00:30    | 1.20  |
| 29-02-2024 | 06:15 - 06:30 | 1.32  | 07:15 - 07:30    | 10.00 | 18:00 - 18:15 | 0.63  | 13:30 - 13:45    | 2.00  |

MCP: Market Clearing Price (₹/kWh)

FSV: Final Scheduled Volume (MU)

| Sellers and Buyers under Real Time Market (RTM) in February, 2024 |                   |        |             |                       |          |             |
|-------------------------------------------------------------------|-------------------|--------|-------------|-----------------------|----------|-------------|
| S. No.                                                            | Entity Name       | Sell   |             | Entity Name           | Purchase |             |
|                                                                   |                   | (MU)   | Percent (%) |                       | (MU)     | Percent (%) |
| 1                                                                 | Rajasthan         | 307.22 | 13.13%      | Punjab                | 541.75   | 23.15%      |
| 2                                                                 | Bihar             | 281.82 | 12.04%      | Kerala                | 204.07   | 8.72%       |
| 3                                                                 | Odisha            | 190.14 | 8.13%       | Uttar Pradesh         | 174.55   | 7.46%       |
| 4                                                                 | Uttar Pradesh     | 176.61 | 7.55%       | Telangana             | 172.79   | 7.38%       |
| 5                                                                 | Madhya Pradesh    | 111.39 | 4.76%       | Tamil Nadu            | 149.35   | 6.38%       |
| 6                                                                 | West Bengal       | 91.05  | 3.89%       | Andhra Pradesh        | 143.63   | 6.14%       |
| 7                                                                 | NTPC North        | 88.87  | 3.80%       | J&K                   | 116.40   | 4.97%       |
| 8                                                                 | Chhattisgarh      | 84.49  | 3.61%       | Haryana               | 103.65   | 4.43%       |
| 9                                                                 | Delhi             | 81.22  | 3.47%       | Maharashtra           | 95.44    | 4.08%       |
| 10                                                                | Jharkhand         | 79.43  | 3.39%       | Gujarat               | 89.53    | 3.83%       |
| 11                                                                | Telangana         | 74.68  | 3.19%       | West Bengal           | 71.18    | 3.04%       |
| 12                                                                | Nabinagar Power   | 72.56  | 3.10%       | Karnataka             | 66.80    | 2.85%       |
| 13                                                                | Maharashtra       | 53.61  | 2.29%       | Madhya Pradesh        | 50.08    | 2.14%       |
| 14                                                                | Andhra Pradesh    | 41.97  | 1.79%       | Assam                 | 46.34    | 1.98%       |
| 15                                                                | IND BARATH        | 25.21  | 1.08%       | Delhi                 | 33.42    | 1.43%       |
| 16                                                                | J&K               | 24.76  | 1.06%       | Rajasthan             | 32.05    | 1.37%       |
| 17                                                                | Tamil Nadu        | 22.36  | 0.96%       | Odisha                | 30.75    | 1.31%       |
| 18                                                                | TRN Energy        | 20.43  | 0.87%       | Himachal Pradesh      | 30.70    | 1.31%       |
| 19                                                                | Uttarakhand       | 19.95  | 0.85%       | Uttarakhand           | 21.64    | 0.92%       |
| 20                                                                | Gujarat           | 15.48  | 0.66%       | DVC                   | 18.66    | 0.80%       |
| 21                                                                | Jindal Power Ltd. | 15.00  | 0.64%       | SKS Power             | 18.20    | 0.78%       |
| 22                                                                | Haryana           | 14.89  | 0.64%       | ArcelorMittal Nippon  | 13.94    | 0.60%       |
| 23                                                                | Pondicherry       | 14.34  | 0.61%       | Druk Green Power      | 13.91    | 0.59%       |
| 24                                                                | Sembcorp Gayatri  | 13.71  | 0.59%       | Daman & Diu - Dadra & | 13.71    | 0.59%       |
| 25                                                                | Kahalgaon-II      | 13.66  | 0.58%       | Chhattisgarh          | 12.52    | 0.54%       |
| 26                                                                | DVC               | 13.50  | 0.58%       | Meghalaya             | 9.94     | 0.42%       |
| 27                                                                | Tripura           | 12.41  | 0.53%       | Simhapuri Energy      | 9.11     | 0.39%       |
| 28                                                                | Jhabua Power      | 12.17  | 0.52%       | Arunachal Pradesh     | 7.99     | 0.34%       |
| 29                                                                | The Tata Power Co | 11.81  | 0.50%       | Manipur               | 6.28     | 0.27%       |
| 30                                                                | RKM Power         | 11.69  | 0.50%       | Adani Power Limited - | 4.25     | 0.18%       |
| 31                                                                | Barh STPS Stg - I | 10.95  | 0.47%       | Jhabua Power          | 3.98     | 0.17%       |
| 32                                                                | Assam             | 10.12  | 0.43%       | Jharkhand             | 3.67     | 0.16%       |
| 33                                                                | Himachal Pradesh  | 9.97   | 0.43%       | BHARAT                | 3.51     | 0.15%       |
| 34                                                                | NPCIL             | 9.80   | 0.42%       | NVVN (SNA) - NEA      | 3.34     | 0.14%       |
| 35                                                                | BALCO 2           | 9.65   | 0.41%       | MB Power              | 2.46     | 0.11%       |
| 36                                                                | Adani Power       | 9.29   | 0.40%       | Railways              | 2.19     | 0.09%       |
| 37                                                                | Tanda Stg-2       | 7.87   | 0.34%       | Goa WR                | 1.91     | 0.08%       |
| 38                                                                | Kameng HEP        | 7.41   | 0.32%       | Mahan Energy Limited  | 1.84     | 0.08%       |
| 39                                                                | Barh Stg-2        | 7.38   | 0.32%       | Jindal Steel          | 1.62     | 0.07%       |
| 40                                                                | Kahalgaon         | 7.32   | 0.31%       | Goa SR                | 1.60     | 0.07%       |
| 41                                                                | ADANI             | 7.13   | 0.30%       | Bihar                 | 1.52     | 0.06%       |
| 42                                                                | Adept Renewable   | 7.11   | 0.30%       | Dhariwal ISTS         | 1.37     | 0.06%       |
| 43                                                                | Simhapuri Energy  | 6.90   | 0.29%       | IND BARATH            | 1.15     | 0.05%       |
| 44                                                                | Rihand-II         | 6.78   | 0.29%       | Ratnagiri Gas & Power | 0.97     | 0.04%       |
| 45                                                                | Rihand-I          | 6.77   | 0.29%       | Adani Power Limited-  | 0.94     | 0.04%       |
| 46                                                                | ACBIL             | 6.74   | 0.29%       | Gandhar               | 0.83     | 0.04%       |
| 47                                                                | Farakka           | 6.70   | 0.29%       | Chandigarh            | 0.78     | 0.03%       |

|    |                   |      |       |                   |      |        |
|----|-------------------|------|-------|-------------------|------|--------|
| 48 | Singrauli         | 6.58 | 0.28% | Kawas             | 0.67 | 0.03%  |
| 49 | Sasan UMPP        | 6.20 | 0.26% | Tripura           | 0.57 | 0.02%  |
| 50 | Sikkim            | 6.01 | 0.26% | Nagaland          | 0.48 | 0.02%  |
| 51 | Amplus Ages       | 5.86 | 0.25% | NEA-NR            | 0.48 | 0.02%  |
| 52 | Sembcorp Energy   | 5.79 | 0.25% | Jindal Power      | 0.36 | 0.02%  |
| 53 | Onevolt Energy    | 5.70 | 0.24% | Maruti Clean Coal | 0.34 | 0.01%  |
| 54 | GMR Warora        | 5.67 | 0.24% | Sikkim            | 0.33 | 0.01%  |
| 55 | Amp Energy        | 5.55 | 0.24% | ACBIL             | 0.28 | 0.01%  |
| 56 | Transition Energy | 5.27 | 0.23% | Pondicherry       | 0.05 | 0.002% |
| 57 | NREL-Dayapar      | 5.16 | 0.22% |                   |      |        |
| 58 | Jindal Power      | 5.06 | 0.22% |                   |      |        |
| 59 | ADANI WIND        | 5.05 | 0.22% |                   |      |        |
| 60 | Kerala            | 5.01 | 0.21% |                   |      |        |
| 61 | RENEW SURYA       | 4.92 | 0.21% |                   |      |        |
| 62 | Mouda Stg-2       | 4.88 | 0.21% |                   |      |        |
| 63 | Rihand-III        | 4.72 | 0.20% |                   |      |        |
| 64 | NTPC Sholapur     | 4.57 | 0.20% |                   |      |        |
| 65 | Khargone STPP     | 4.47 | 0.19% |                   |      |        |
| 66 | Ramagundam Stg-   | 4.26 | 0.18% |                   |      |        |
| 67 | Manipur           | 4.13 | 0.18% |                   |      |        |
| 68 | Dadri TPS         | 3.91 | 0.17% |                   |      |        |
| 69 | Mahan Energy      | 3.84 | 0.16% |                   |      |        |
| 70 | Punjab            | 3.82 | 0.16% |                   |      |        |
| 71 | Grian Energy      | 3.77 | 0.16% |                   |      |        |
| 72 | RENEW SURYA       | 3.65 | 0.16% |                   |      |        |
| 73 | Renew Surya Ravi  | 3.61 | 0.15% |                   |      |        |
| 74 | ADANI SOLAR       | 3.56 | 0.15% |                   |      |        |
| 75 | NTPC Gadarwara    | 3.50 | 0.15% |                   |      |        |
| 76 | MB Power          | 3.05 | 0.13% |                   |      |        |
| 77 | Neyveli New       | 3.04 | 0.13% |                   |      |        |
| 78 | RENEW SURYA       | 2.94 | 0.13% |                   |      |        |
| 79 | Adani Power       | 2.86 | 0.12% |                   |      |        |
| 80 | RENEW SURYA       | 2.78 | 0.12% |                   |      |        |
| 81 | Mouda Stg-1       | 2.65 | 0.11% |                   |      |        |
| 82 | Goa WR            | 2.51 | 0.11% |                   |      |        |
| 83 | Sipat Stg-2       | 2.21 | 0.09% |                   |      |        |
| 84 | Maruti Clean Coal | 2.20 | 0.09% |                   |      |        |
| 85 | Vindhyachal stg-4 | 2.10 | 0.09% |                   |      |        |
| 86 | Sipat Stg-1       | 1.86 | 0.08% |                   |      |        |
| 87 | Palatana          | 1.81 | 0.08% |                   |      |        |
| 88 | NTPC Kudgi        | 1.69 | 0.07% |                   |      |        |
| 89 | DGEN Mega         | 1.64 | 0.07% |                   |      |        |
| 90 | Vindhyachal stg-3 | 1.63 | 0.07% |                   |      |        |
| 91 | Unchahar-II       | 1.56 | 0.07% |                   |      |        |
| 92 | Vindhyachal stg-1 | 1.53 | 0.07% |                   |      |        |
| 93 | Jindal Steel      | 1.47 | 0.06% |                   |      |        |
| 94 | Singoli Bhagwati  | 1.45 | 0.06% |                   |      |        |
| 95 | Dadri Stg-2       | 1.43 | 0.06% |                   |      |        |
| 96 | IGSTPS JHAJJAR    | 1.41 | 0.06% |                   |      |        |
| 97 | RENEW SURYA       | 1.38 | 0.06% |                   |      |        |
| 98 | SKS Power         | 1.30 | 0.06% |                   |      |        |
| 99 | Ramagundam Stg-   | 1.29 | 0.06% |                   |      |        |

|                               |                   |                 |               |                               |                 |               |
|-------------------------------|-------------------|-----------------|---------------|-------------------------------|-----------------|---------------|
| 100                           | Vindhyachal stg-2 | 1.19            | 0.05%         |                               |                 |               |
| 101                           | Simhadri Stg-2    | 1.19            | 0.05%         |                               |                 |               |
| 102                           | NLC               | 1.16            | 0.05%         |                               |                 |               |
| 103                           | Daman & Diu -     | 1.12            | 0.05%         |                               |                 |               |
| 104                           | Talcher Stg-2     | 1.04            | 0.04%         |                               |                 |               |
| 105                           | Costal Energen    | 0.98            | 0.04%         |                               |                 |               |
| 106                           | Ostro Kannada     | 0.90            | 0.04%         |                               |                 |               |
| 107                           | Unchahar-III      | 0.88            | 0.04%         |                               |                 |               |
| 108                           | Unchahar-I        | 0.85            | 0.04%         |                               |                 |               |
| 109                           | Adani Green       | 0.84            | 0.04%         |                               |                 |               |
| 110                           | Bongaigaon        | 0.76            | 0.03%         |                               |                 |               |
| 111                           | Korba Stg 3       | 0.70            | 0.03%         |                               |                 |               |
| 112                           | Nagaland          | 0.68            | 0.03%         |                               |                 |               |
| 113                           | Simhadri Stg-1    | 0.64            | 0.03%         |                               |                 |               |
| 114                           | AGBPP             | 0.63            | 0.03%         |                               |                 |               |
| 115                           | Shree Cement      | 0.60            | 0.03%         |                               |                 |               |
| 116                           | ADHUNIK           | 0.54            | 0.02%         |                               |                 |               |
| 117                           | Ayana Renewable   | 0.53            | 0.02%         |                               |                 |               |
| 118                           | NVVN (SNA) -      | 0.53            | 0.02%         |                               |                 |               |
| 119                           | NTPC Telangana    | 0.51            | 0.02%         |                               |                 |               |
| 120                           | NTPC Lara         | 0.50            | 0.02%         |                               |                 |               |
| 121                           | ADANI SOLAR       | 0.43            | 0.02%         |                               |                 |               |
| 122                           | Korba             | 0.40            | 0.02%         |                               |                 |               |
| 123                           | Sorang HEP,       | 0.37            | 0.02%         |                               |                 |               |
| 124                           | DB Power          | 0.32            | 0.01%         |                               |                 |               |
| 125                           | Jaypee Nigrie     | 0.29            | 0.01%         |                               |                 |               |
| 126                           | Chandigarh        | 0.28            | 0.01%         |                               |                 |               |
| 127                           | Goa SR            | 0.28            | 0.01%         |                               |                 |               |
| 128                           | Karcham Wangtoo   | 0.27            | 0.01%         |                               |                 |               |
| 129                           | Darlipalli        | 0.27            | 0.01%         |                               |                 |               |
| 130                           | NTPC North        | 0.21            | 0.01%         |                               |                 |               |
| 131                           | Meghalaya         | 0.21            | 0.01%         |                               |                 |               |
| 132                           | IL&FS             | 0.21            | 0.01%         |                               |                 |               |
| 133                           | KBUNL(MTPS-II)    | 0.19            | 0.01%         |                               |                 |               |
| 134                           | AD Hydro          | 0.18            | 0.01%         |                               |                 |               |
| 135                           | Talcher           | 0.16            | 0.01%         |                               |                 |               |
| 136                           | Karnataka         | 0.15            | 0.01%         |                               |                 |               |
| 137                           | Vindhyachal stg-5 | 0.14            | 0.01%         |                               |                 |               |
| 138                           | NLC TPS-II Stg-2  | 0.07            | 0.003%        |                               |                 |               |
| 139                           | Tashiding HEP     | 0.05            | 0.002%        |                               |                 |               |
| 140                           | Sainj HEP         | 0.05            | 0.002%        |                               |                 |               |
| 141                           | Arunachal Pradesh | 0.05            | 0.002%        |                               |                 |               |
| 142                           | Doyang HPS,       | 0.04            | 0.002%        |                               |                 |               |
| 143                           | Unchahar-IV       | 0.03            | 0.001%        |                               |                 |               |
| 144                           | WIND FIVE         | 0.02            | 0.001%        |                               |                 |               |
| 145                           | NLC TPS-II Expn   | 0.01            | 0.001%        |                               |                 |               |
| 146                           | NSPCL Bhilai      | 0.01            | 0.0005%       |                               |                 |               |
| 147                           | GMR Kamalanga     | 0.01            | 0.0004%       |                               |                 |               |
| 148                           | Lanco Budhil      | 0.01            | 0.0002%       |                               |                 |               |
| <b>Total Volume of top 10</b> |                   | <b>1,492.25</b> | <b>63.77%</b> | <b>Total Volume of top 10</b> | <b>1,791.16</b> | <b>76.55%</b> |
| <b>Total Volume in PXs</b>    |                   | <b>2,339.92</b> |               | <b>Total Volume in PXs</b>    | <b>2,339.92</b> |               |

### Cross Border Electricity Transactions under Day Ahead Market (DAM) in IEX with Nepal and Bhutan during the month of February, 2024

| S. No              | Delivery Date | Buy Volume By Nepal (MU) | Sell Volume by Nepal (MU) | Buy Volume By Bhutan (MU) | Sell Volume by Bhutan (MU) |
|--------------------|---------------|--------------------------|---------------------------|---------------------------|----------------------------|
| 1                  | 01-02-2024    | 8.09                     | -                         | 9.63                      | -                          |
| 2                  | 02-02-2024    | 8.97                     | -                         | 9.48                      | -                          |
| 3                  | 03-02-2024    | 8.72                     | -                         | 9.53                      | -                          |
| 4                  | 04-02-2024    | 10.75                    | -                         | 10.18                     | -                          |
| 5                  | 05-02-2024    | 9.80                     | -                         | 11.24                     | -                          |
| 6                  | 06-02-2024    | 9.71                     | -                         | 11.15                     | -                          |
| 7                  | 07-02-2024    | 9.04                     | -                         | 11.01                     | -                          |
| 8                  | 08-02-2024    | 8.92                     | -                         | 11.87                     | -                          |
| 9                  | 09-02-2024    | 8.83                     | -                         | 11.78                     | -                          |
| 10                 | 10-02-2024    | 8.76                     | -                         | 12.15                     | -                          |
| 11                 | 11-02-2024    | 9.90                     | -                         | 12.39                     | -                          |
| 12                 | 12-02-2024    | 8.78                     | -                         | 12.13                     | -                          |
| 13                 | 13-02-2024    | 9.01                     | -                         | 11.85                     | -                          |
| 14                 | 14-02-2024    | 9.69                     | -                         | 12.28                     | -                          |
| 15                 | 15-02-2024    | 9.95                     | -                         | 12.74                     | -                          |
| 16                 | 16-02-2024    | 9.78                     | -                         | 12.69                     | -                          |
| 17                 | 17-02-2024    | 9.64                     | -                         | 12.35                     | -                          |
| 18                 | 18-02-2024    | 10.32                    | -                         | 11.95                     | -                          |
| 19                 | 19-02-2024    | 10.02                    | -                         | 12.07                     | -                          |
| 20                 | 20-02-2024    | 9.99                     | -                         | 11.96                     | -                          |
| 21                 | 21-02-2024    | 9.88                     | -                         | 12.33                     | -                          |
| 22                 | 22-02-2024    | 9.82                     | -                         | 11.98                     | -                          |
| 23                 | 23-02-2024    | 9.71                     | -                         | 11.75                     | -                          |
| 24                 | 24-02-2024    | 9.21                     | -                         | 11.90                     | -                          |
| 25                 | 25-02-2024    | 10.47                    | -                         | 11.02                     | -                          |
| 26                 | 26-02-2024    | 9.96                     | -                         | 11.43                     | -                          |
| 27                 | 27-02-2024    | 10.76                    | -                         | 12.16                     | -                          |
| 28                 | 28-02-2024    | 10.43                    | -                         | 12.52                     | -                          |
| 29                 | 29-02-2024    | 10.09                    | -                         | 12.75                     | -                          |
| <b>Total</b>       |               | <b>279.00</b>            | -                         | <b>338.24</b>             | -                          |
| <b>Grand Total</b> |               | <b>617.24</b>            |                           |                           |                            |

-: No transaction took place

**Note:** Cross Border Transactions of Electricity of 617.24 MU (i.e. 218.90 MU bought by Nepal, 338.24 MU bought by Bhutan) happened during February, 2024 in IEX, which is included under DAM Volume of February, 2024 in IEX. No Cross Border Import Transactions of Electricity happened with Nepal and Bhutan for the month of February, 2024 in IEX under DAM.

### Cross Border Electricity Transactions under Real Time Market (RTM) in IEX with Nepal and Bhutan during the month of February, 2024

| S. No              | Delivery Date | Buy Volume By Nepal (MU) | Sell Volume by Nepal (MU) | Buy Volume By Bhutan (MU) | Sell Volume by Bhutan (MU) |
|--------------------|---------------|--------------------------|---------------------------|---------------------------|----------------------------|
| 1                  | 01-02-2024    | 1.46                     | -                         | 0.83                      | -                          |
| 2                  | 02-02-2024    | 0.29                     | -                         | 0.35                      | -                          |
| 3                  | 03-02-2024    | 0.29                     | -                         | 1.28                      | -                          |
| 4                  | 04-02-2024    | -                        | 0.23                      | 0.26                      | -                          |
| 5                  | 05-02-2024    | -                        | -                         | 0.54                      | -                          |
| 6                  | 06-02-2024    | -                        | 0.10                      | 0.82                      | -                          |
| 7                  | 07-02-2024    | 0.10                     | -                         | 1.05                      | -                          |
| 8                  | 08-02-2024    | 0.43                     | -                         | 0.42                      | -                          |
| 9                  | 09-02-2024    | 0.29                     | -                         | 0.41                      | -                          |
| 10                 | 10-02-2024    | -                        | -                         | 0.50                      | -                          |
| 11                 | 11-02-2024    | -                        | -                         | 0.26                      | -                          |
| 12                 | 12-02-2024    | 0.29                     | -                         | 0.87                      | -                          |
| 13                 | 13-02-2024    | 0.07                     | -                         | 0.78                      | -                          |
| 14                 | 14-02-2024    | 0.59                     | -                         | 0.50                      | -                          |
| 15                 | 15-02-2024    | -                        | -                         | 0.45                      | -                          |
| 16                 | 16-02-2024    | -                        | -                         | -                         | -                          |
| 17                 | 17-02-2024    | -                        | 0.12                      | -                         | -                          |
| 18                 | 18-02-2024    | -                        | 0.08                      | 0.05                      | -                          |
| 19                 | 19-02-2024    | -                        | -                         | 0.26                      | -                          |
| 20                 | 20-02-2024    | -                        | -                         | 0.47                      | -                          |
| 21                 | 21-02-2024    | -                        | -                         | 0.33                      | -                          |
| 22                 | 22-02-2024    | -                        | -                         | -                         | -                          |
| 23                 | 23-02-2024    | -                        | -                         | 0.02                      | -                          |
| 24                 | 24-02-2024    | -                        | -                         | 0.14                      | -                          |
| 25                 | 25-02-2024    | -                        | -                         | 0.70                      | -                          |
| 26                 | 26-02-2024    | -                        | -                         | 0.16                      | -                          |
| 27                 | 27-02-2024    | -                        | -                         | 0.72                      | -                          |
| 28                 | 28-02-2024    | -                        | -                         | 0.03                      | -                          |
| 29                 | 29-02-2024    | -                        | -                         | 1.73                      | -                          |
| <b>Total</b>       |               | <b>3.82</b>              | <b>0.53</b>               | <b>13.91</b>              |                            |
| <b>Grand Total</b> |               | <b>18.26</b>             |                           |                           |                            |

-: No transaction took place

**Note:** Cross Border Transactions of Electricity of 18.26 MU (i.e. 3.82 MU bought by Nepal, 0.53 MU sold by Nepal, 13.91 MU bought by Bhutan) happened during February, 2024 in IEX, which is included under RTM Volume of February, 2024 in IEX. No Cross Border Import Transactions of Electricity happened with **Bhutan** for the month of February, 2024 in IEX under RTM.

**Analysis for change in trend of Final Scheduled Volume under DAM on 1<sup>st</sup> Sunday of February, 2024 (i.e. 4<sup>th</sup> February, 2024)**

Final Scheduled Volume (MU) and the Daily Wt. Avg. MCP (₹/kWh) invariably shows decreasing trend on Sundays and increasing trend on Mondays as the demand of electricity in the country is less on Sundays as compared to other days of week. However, during the month of February, 2024, it is observed that on first Sunday (04<sup>th</sup> February, 2024), FSV showed increasing trend in comparison to first Saturday (03<sup>rd</sup> February, 2024).

- (i) On first Sunday (04<sup>th</sup> February, 2024), although there was decrease in purchase on power exchange by some of the States in comparison to first Saturday (03<sup>rd</sup> February, 2024) by **18.11 MU** [i.e. Uttarakhand (4.24 MU), Tamil Nadu (3.55 MU), Haryana (2.55 MU), Kerala (2.02 MU) and Punjab (1.85 MU), etc.], there was also increase in purchase on power exchange by some of the States by **21.37 MU** [i.e. Andhra Pradesh (5.76 MU), J&K (4.54 MU), Madhya Pradesh (3.21 MU), NVVN (SNA) – NEA (1.78 MU) and Telangana (1.37 MU), etc.]. This resulted in an overall increase in FSV by **3.26 MU** on Sunday (04<sup>th</sup> February, 2024) as compared to Saturday (03<sup>rd</sup> February, 2024).

## **Definitions/ Terminologies used in the Report**

- 1. Area Clearing Price (ACP)** is price discovered in each time block of concerned bid area. The country has been divided into 13 bid areas for the purpose of calculating prices in Power Exchanges.  
**The 13 Bid areas are as under:**  
**N1:** Jammu and Kashmir, Himachal Pradesh, Chandigarh, Haryana; **N2:** Uttar Pradesh, Uttaranchal, Rajasthan, Delhi; **N3:** Punjab; **E1:** West Bengal, Sikkim, Bihar, Jharkhand; **E2:** Odisha; **W1:** Madhya Pradesh; **W2:** Maharashtra, Gujarat, Daman and Diu, Dadar and Nagar Haveli, North Goa; **W3:** Chhattisgarh; **S1:** Andhra Pradesh, Telangana, Karnataka, Pondicherry (Yanam), South Goa; **S2:** Tamil Nadu, Pondicherry (Puducherry), Pondicherry (Karaikal), Pondicherry (Mahe); **S3:** Kerala; **A1:** Tripura, Manipur, Mizoram, Nagaland; **A2:** Assam, Arunachal Pradesh, Meghalaya.
- 2. Wt. Avg. MCP** is the average of Daily Wt. Avg. MCP of the days during the month on which transaction happened.
- 3. Bilateral Transaction** means a transaction for exchange of electrical energy (MWh) between a specified buyer and a specified seller, from a specified point of injection to a specified point of drawal for a fixed or varying quantum of power (MW) for any time block during a month.
- 4. Daily Wt. Avg. MCP** is the average of MCP of all 96 Time Blocks of the day during which transaction happened.
- 5. Day-Ahead Market (DAM)** means a market where Day Ahead Contracts are transacted on the Power Exchanges, wherein Collective Transactions occur on day (T) and delivery of electricity is on the next day (T+1).
- 6. Elasticity** is percentage of change in MCP with respect to change in independent variable viz. peak demand, average purchase bid, average sell bid, generation from coal based plants, generation from hydro based plants, generation from wind based plants and generation from solar plants.
- 7. Energy Supplied** is the total energy (MU) available at the States' periphery.
- 8. Final Scheduled Volume** is the total of scheduled volume of all 96 time blocks in a day during the month in which transaction happened.
- 9. Green Term Ahead Market (GTAM)** is based on the principles of current Term Ahead Market (TAM) and will offer trade for Solar, Non-Solar and Hydro Renewable Energy (RE) generation.

- 10. Green Day Ahead Market (GDAM)** is based on the principles of current Day Ahead Market (DAM), where market participants purchase and sell electricity generated from renewable sources.
- 11. Long Duration Contracts** on the power exchanges is a product segment under which the participants are allowed to trade for delivery of power upto 90 Days (Delivery Starting from T+2 to T+90 Days).
- 12. MCP** is the price discovered in each of the 15 Minute Time Block. The day is divided in 96-time blocks of 15 minutes each.
- 13. Real Time Market (RTM)** means a market where Real-Time Contracts are transacted on the Power Exchange(s), i.e. a contract other than Day Ahead Contract or Intraday Contract or Contingency Contract. Under RTM collective transactions occur on day (T) or day (T-1) and delivery of electricity is on day (T) for a specified delivery period.
- 14. Term Ahead Market (TAM)** means a market where Term Ahead Contracts are transacted on the Power Exchange(s), i.e. a contract wherein transactions occur on day (T) and physical delivery of electricity is on a day more than one day ahead (T + 2 or more).