



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, 7<sup>th</sup> Floor, Tower B, World Trade Centre, Nauroji Nagar, New Delhi- 110029.

विषय: दिसंबर, 2024 माह की मार्केट मॉनिटरिंग रिपोर्ट।

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

महोदय/ Sir,

दिसंबर, 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 December, 2024 is enclosed herewith for kind information and perusal.

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

- i. दिसंबर, 2024 माह में देश में कुल 129,397 MU विद्युत का कारोबार किया गया, जिसमें से 60,326 MU का कारोबार अंतर्राज्यीय पारेषण प्रणाली (Inter State Transmission System) के माध्यम से किया गया था और शेष राज्य नियंत्रित उत्पादन स्टेशनों से अंतराज्यीय पारेषण प्रणाली (Intra State Transmissions System) के माध्यम से किया गया।

In the month of December, 2024 a total of 129,397 MU of electricity was transacted in the country out of which 60,326 MU was transacted through ISTS, and the remaining through state controlled generating stations through Intra State Transmissions System.

- ii. अल्पावधि मार्केट के अंतर्गत कुल 20,507 MU का कारोबार किया गया था, जिसमें से 12,629 MU पावर एक्सचेंजों के माध्यम से कारोबार किया गया और शेष द्विपक्षीय कारोबार

और विचलन (deviations) के रूप में हुआ। इस प्रकार अल्पावधि कारोबार, दिसंबर, 2024 माह में ट्रेड की गई विद्युत की कुल मात्रा का 15.84 % था और 9.76 % पावर एक्सचेंजों के माध्यम से रहा।

A total of 20,507 MU was transacted under Short Term Market, out of which 12,629 MU was transacted through Power Exchanges and remaining happened as bilateral transactions & deviations. Thus, the total short term trade in December, 2024 was 15.84 % of total volume of electricity traded in December, 2024 and 9.76 % 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 33.99 % रहा, जिसमें से पावर एक्सचेंजों के माध्यम से कारोबार 20.93 % रहा।

If we compare these transactions with respect to the electricity supplied through ISTS, the short term transactions constitutes about 33.99 % of ISTS transactions, out of which transaction through the power exchanges constitutes 20.93 %.

भवदीय/ Yours faithfully,

**Signed by Vikram Singh**

**Date: 06-02-2025 10:15:00**

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

**प्रतिलिपि/ Copy for information, through email, to:**

1. O/o Chairperson, CEA
  2. O/o Member (E&C), CEA
  3. Secretary (All SERCs and JERCs)
  4. CMD, Grid Controller of India Limited (GRID-INDIA), B-9 (1st Floor), Qutab Institutional Area, Katwaria Sarai, New Delhi -110016.
  5. CMD, Indian Energy Exchange (IEX), 9th Floor, Max Towers, Sector 16B, Noida- 201301.
  6. MD & CEO, Power Exchange India Limited (PXIL), Sumer Plaza, 9th floor, Unit no - 901, Marol Maroshi Road, Andheri (East), Mumbai-400 059.
  7. COO, Hindustan Power Exchange Limited (HPX), World Trade Tower, 8th Floor, Sector 16, Noida, Uttar Pradesh - 201301.
- CEA website (<https://cea.nic.in/market-monitoring-report/?lang=en>)



सत्यमेव जयते

# मासिक मार्केट मॉनिटरिंग रिपोर्ट - दिसंबर, 2024

## Monthly Market Monitoring Report

December, 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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दिसंबर, 2024 की मासिक मार्केट  
मॉनिटरिंग रिपोर्ट का सारांश

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



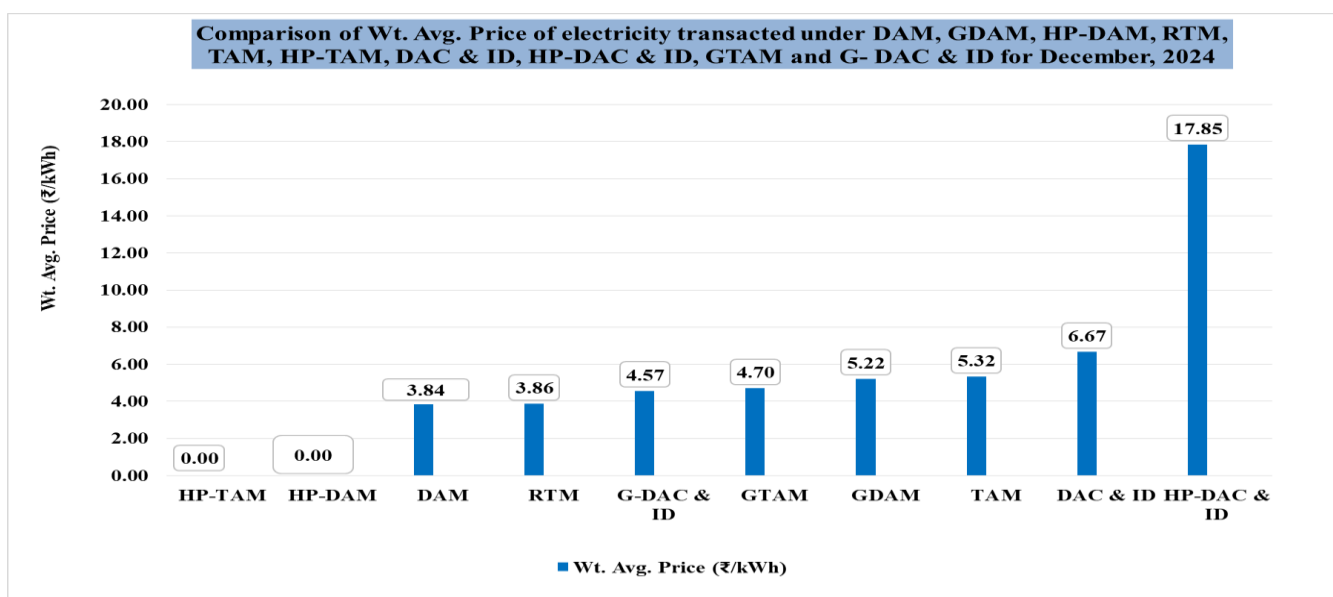
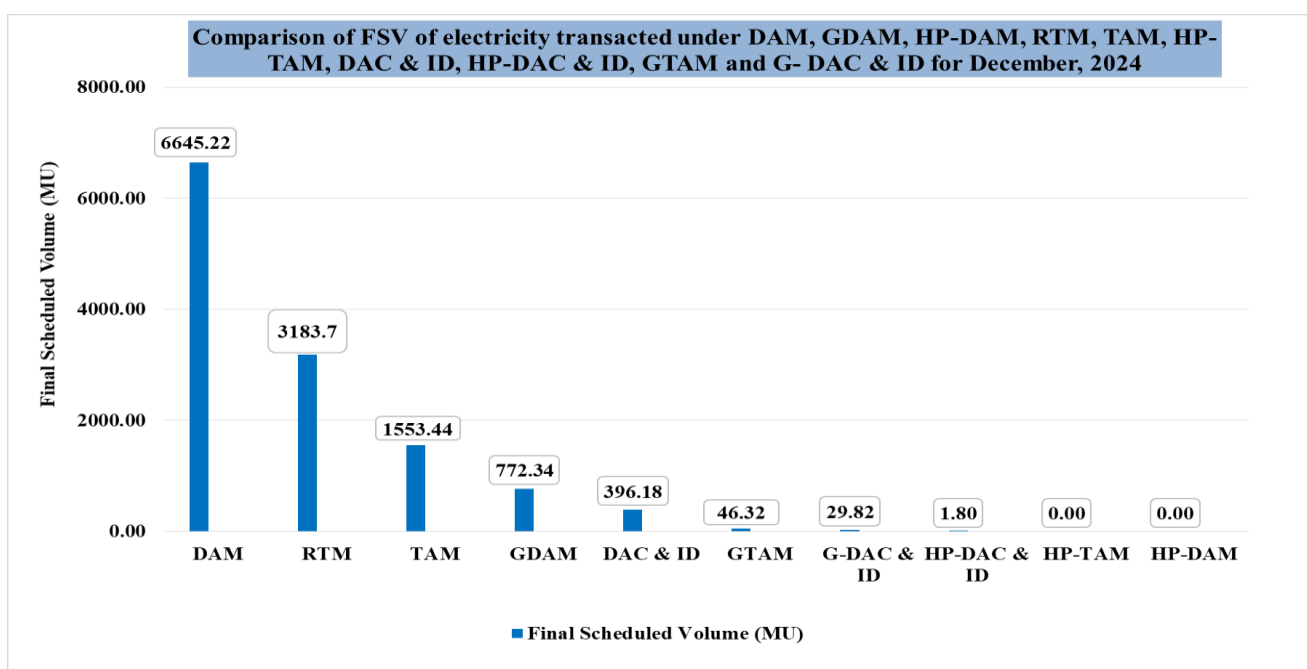
## दिसंबर, 2024 माह के लिए सारांश Summary for Month: December, 2024

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

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

- दिसंबर, 2024 के दौरान विद्युत एक्सचेंजों (यानी आईईएक्स, पीएक्सआईएल और एचपीएक्स) के माध्यम से कुल **12,629 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।

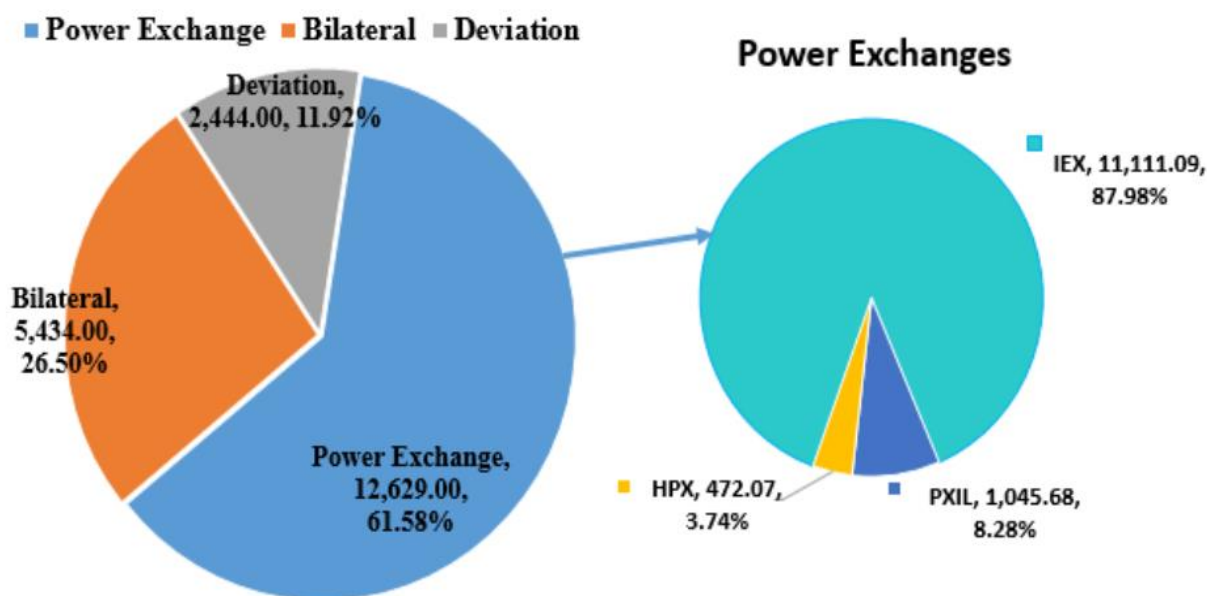
A total volume of **12,629 MU** electricity was transacted through power exchanges i.e. IEX, PXIL & HPX, during the month of December, 2024. This volume of electricity is on delivery date basis and includes transactions through DAM, GDAM, HP-DAM, RTM, TAM, HP-TAM, DAC & ID, HP-DAC & ID, GTAM and G-DAC & ID market segments.



- द्विपक्षीय व्यापार के तहत कुल **5,434\* MU** विद्युत का कारोबार किया गया और **2,444 MU** को विचलन के रूप में लेनदेन किया गया। इस प्रकार कुल **20,507 MU** विद्युत का कारोबार अल्पावधि व्यापार के रूप में किया गया था। दिसंबर, 2024 के महीने में देश में कुल **129,397 MU** विद्युत की आपूर्ति की गई थी, इस प्रकार दिसंबर, 2024 माह में कारोबार की गई विद्युत की कुल मात्रा में अल्पावधि बाजार का हिस्सा **15.85 %** था।

Under the Bilateral trade, a total of **5,434\* MU** of electricity was transacted and **2,444 MU** was transacted as deviation from schedule. Thus, a total of **20,507 MU** of electricity was transacted as short term trade (Power Exchange + Bilateral trade + deviation from schedule). In December, 2024, a total of **129,397 MU** of electricity was supplied in the country, thus, the share of short term market in the total volume of electricity supplied in December, 2024 was **15.85 %**.

### Short Term Market for December, 2024



\* This bilateral transactions volume include only short-term transactions scheduled under GNA and t-GNA during the month of December 2024.

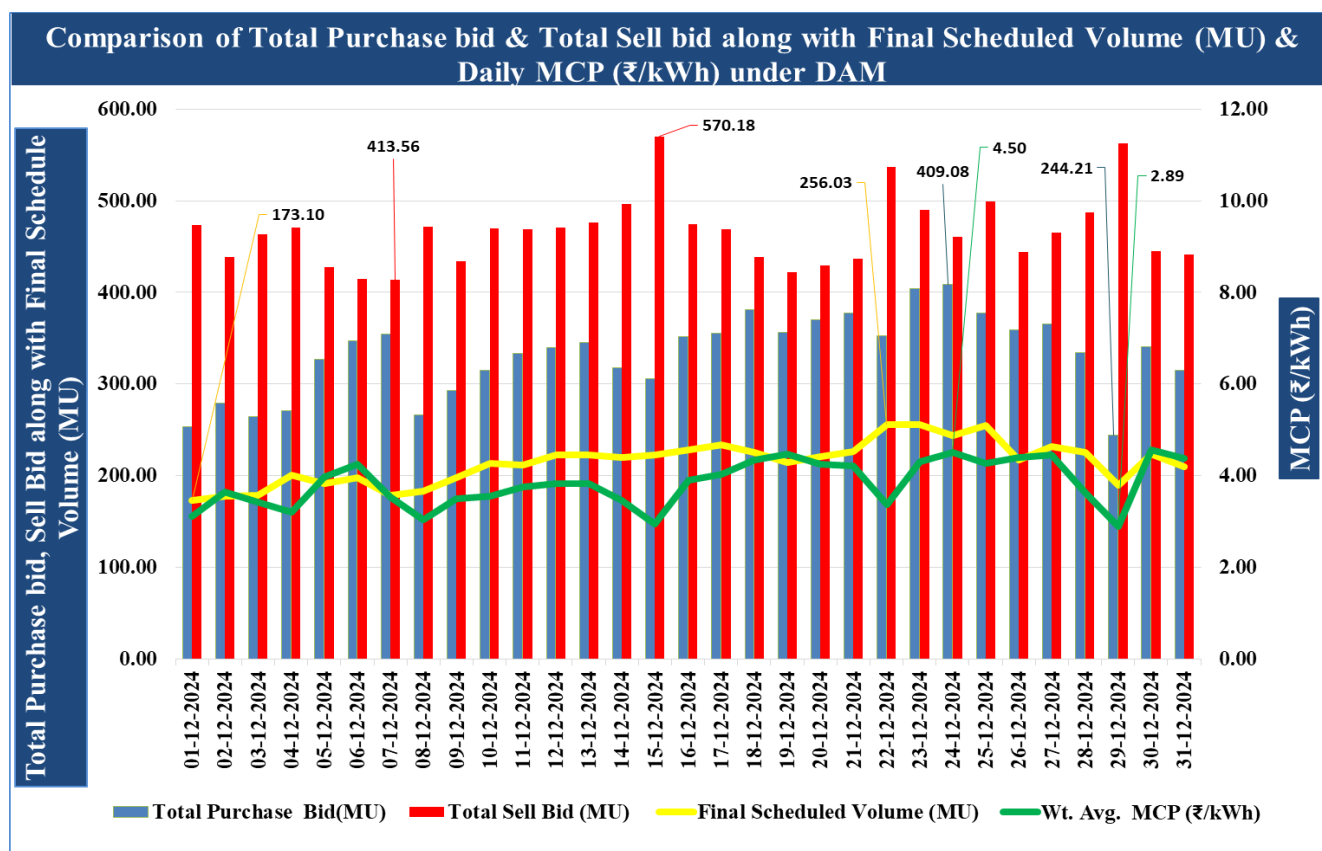
- दिसंबर, 2024 के महीने के दौरान कोई संचरण जाम नहीं था।  
There was no transmission congestion during the month of December, 2024.

दिसंबर, 2024 माह के महीने में रिपोर्ट की गई वास्तविक समय में विद्युत कटौती की कुल मात्रा केवल **32.81 MU** थी।  
The total volume of real time curtailment reported in the month of December, 2024 was only **32.81 MU**.

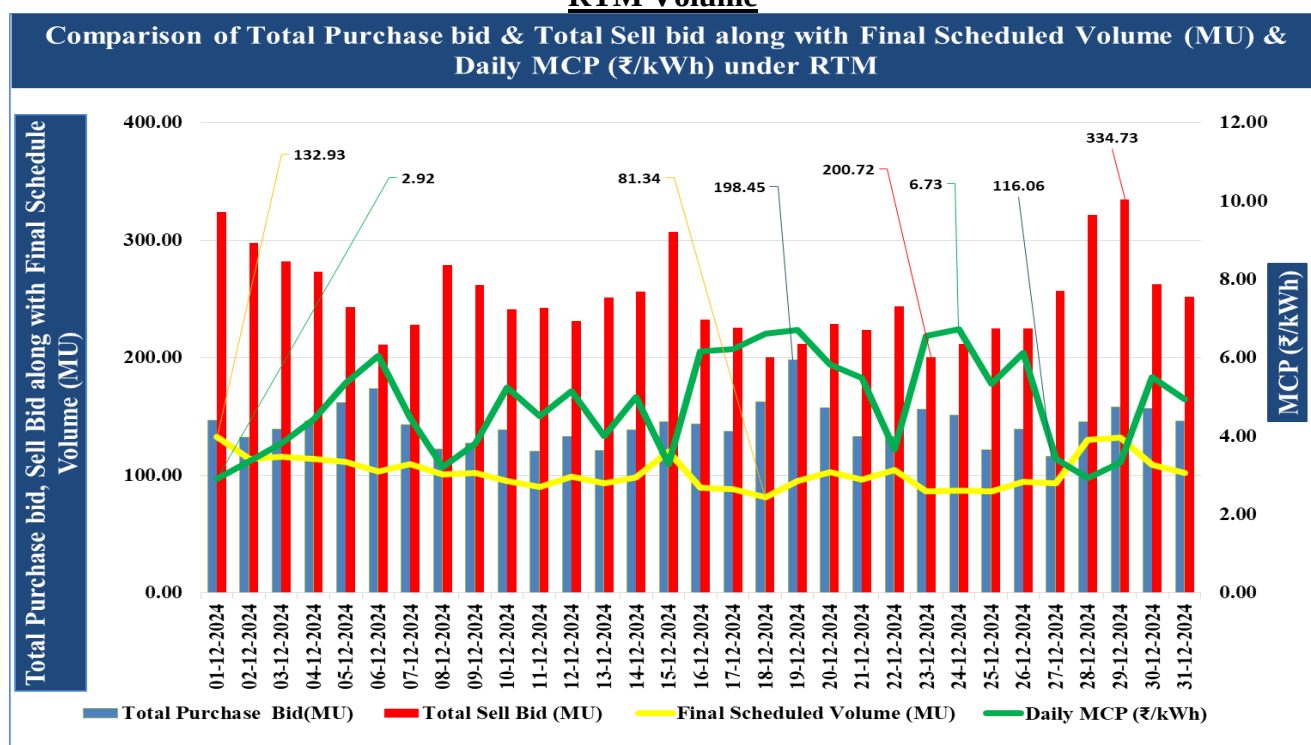
- दिसंबर, 2024 माह के दौरान अंतर्राज्यीय पारेषण प्रणाली (ISTS) में निर्धारित अनुसूचित विद्युत की कुल मात्रा **60,326 MU** थी। दिसंबर, 2024 के महीने में अल्पावधि बाजार में विद्युत का लेन-देन अंतर्राज्यीय पारेषण प्रणाली (ISTS) के माध्यम से अनुसूचित की गई कुल विद्युत की मात्रा का **33.99 %** रहा।  
The total volume of electricity scheduled through ISTS during the month of December, 2024 was **60,326 MU**. The total volume of electricity transacted in the short term market was **33.99 %** of total volume schedule at ISTS in December, 2024.

- दिसंबर, 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 December, 2024 are shown in following figures:

### DAM Volume



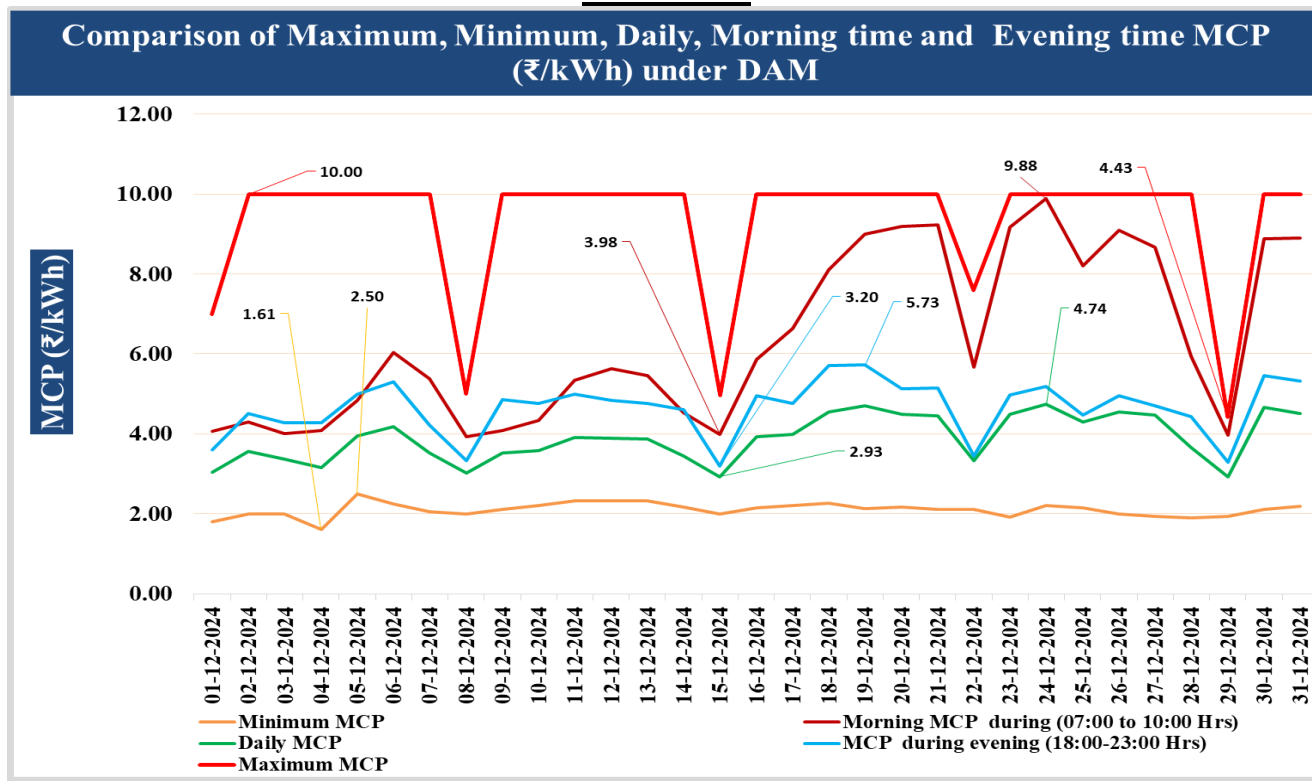
### RTM Volume



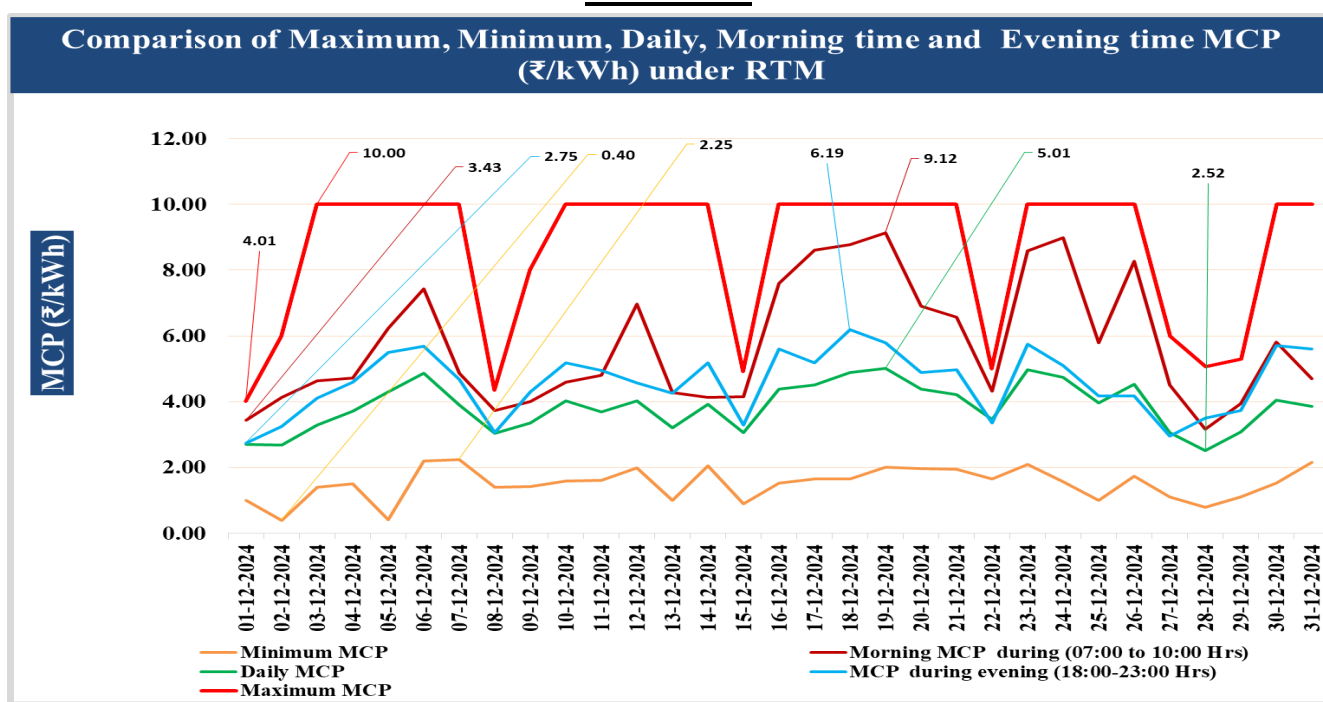
- दिसंबर, 2024 माह के दौरान DAM और RTM में अधिकतम, न्यूनतम, दैनिक, सुबह और शाम के समय MCP की भिन्नता निम्नलिखित चित्रों में दिखाई गई है:

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

### DAM Prices



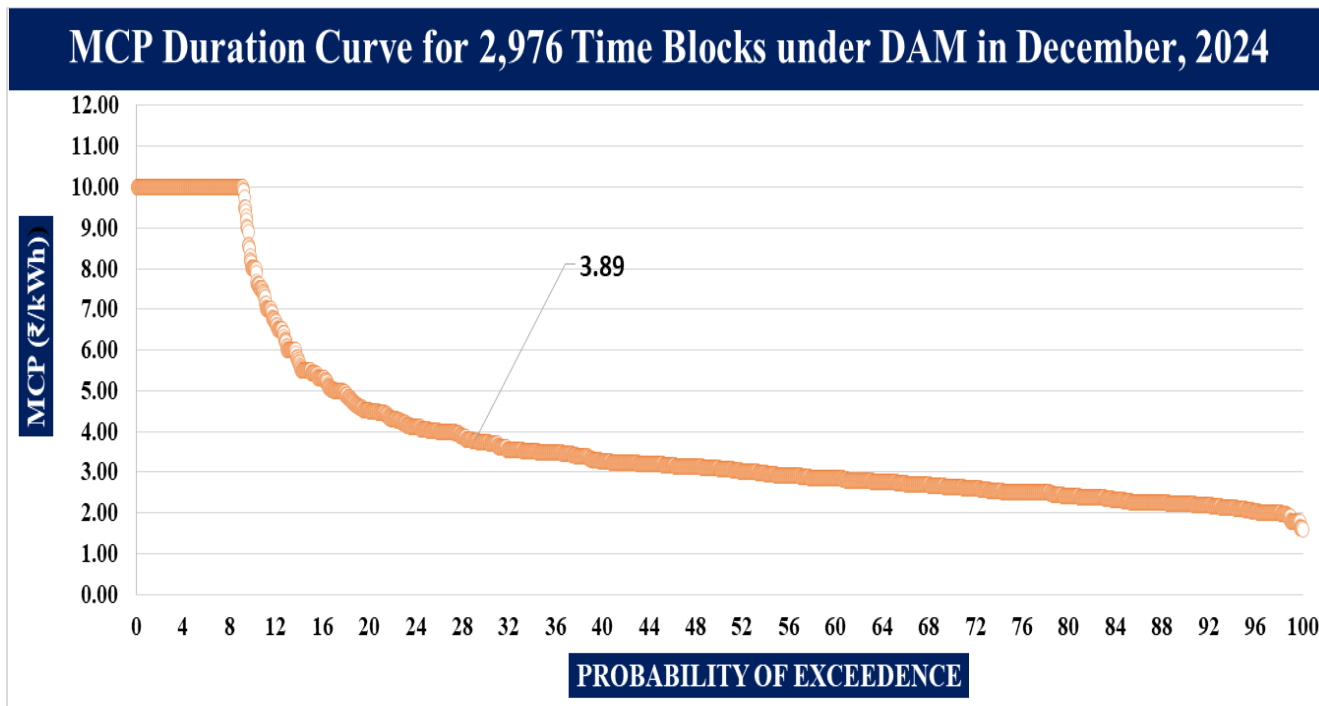
### RTM Prices



- दिसंबर, 2024 के महीने के दौरान DAM और RTM के तहत समय ब्लॉकवार MCP अवधि वक्र निम्नलिखित चित्रों में में दिखाए गए हैं:

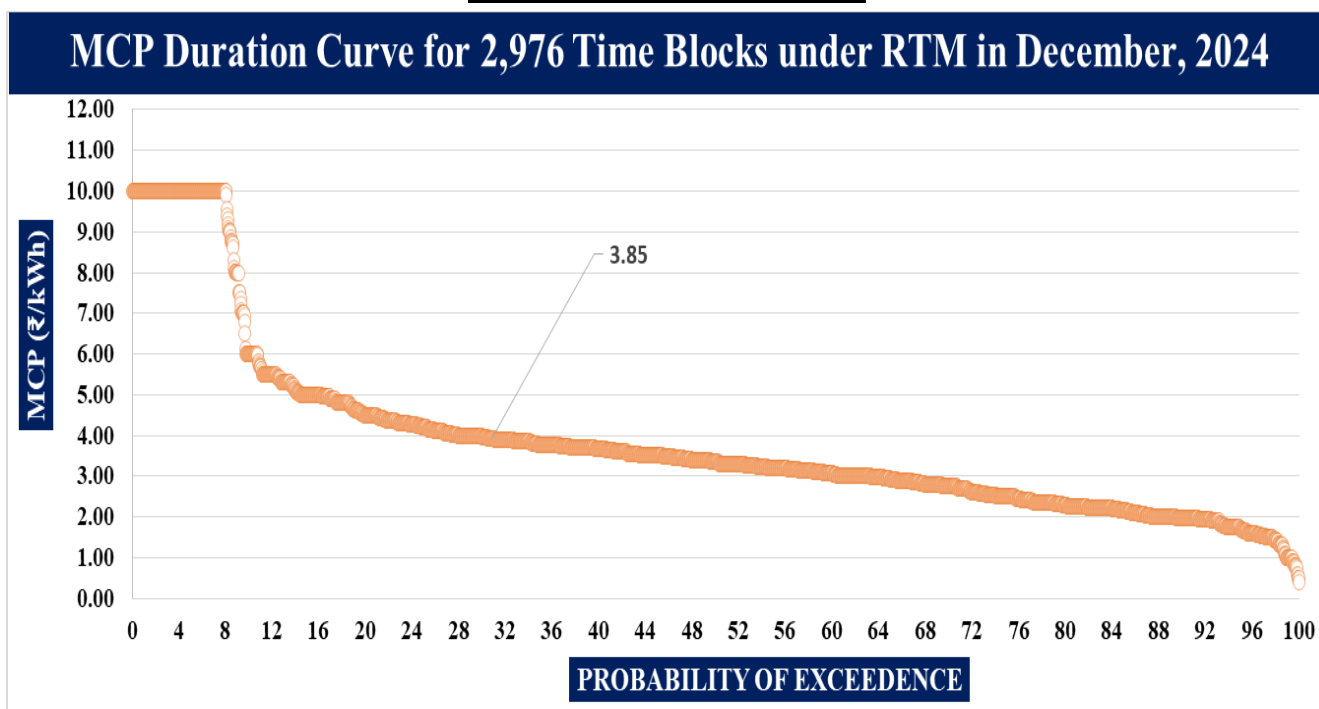
The Market Clearing Price duration curves for time block wise under DAM and RTM during the month of December, 2024 are shown in following figures:

#### DAM MCP duration curve



\* This MCP is average of all 2976 time blocks.

#### RTM MCP duration curve



\* This MCP is average of all 2976 time blocks.



# **MARKET MONITORING REPORT DETAILS**

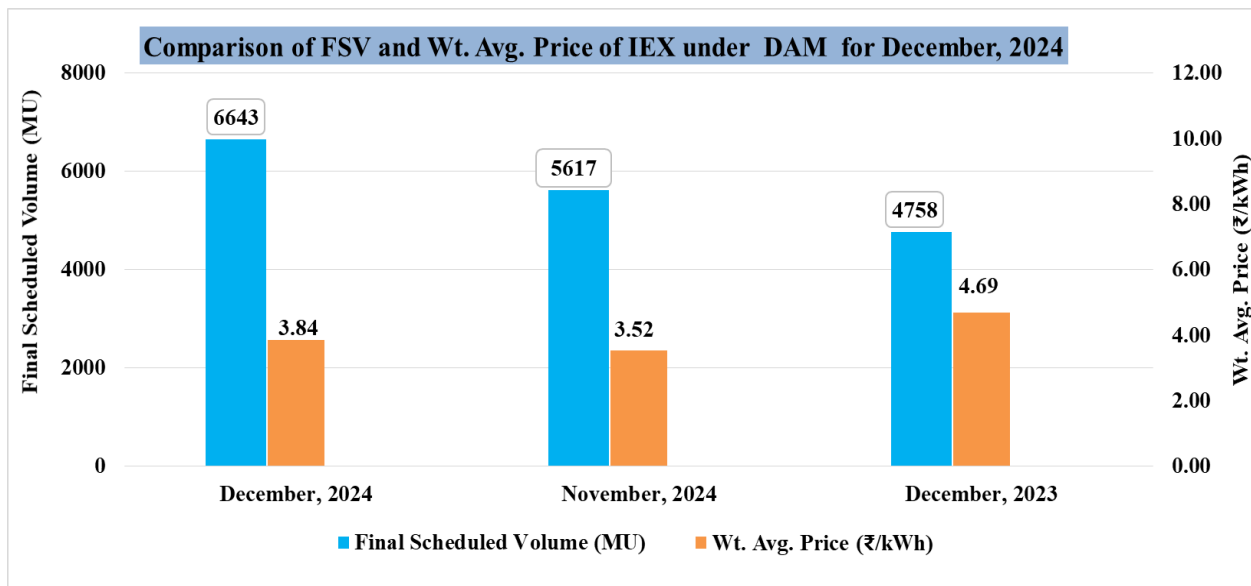


## Electricity Transactions on Power Exchanges in India

### **1. Day Ahead Market (DAM)**

*The volume of electricity transacted under DAM was 6,645.22 MU at a Wt. Avg. Price of ₹ 3.84/kWh in December, 2024.*

- 1.1.** The total volume of electricity transacted on the power exchanges, viz., IEX, HPX and PXIL in the Day Ahead Market (DAM) in December, 2024 was **6,645.22 MU**. The total energy supplied in the country during the month of December, 2024 was **129,397 MU**. Thus, the volume of electricity transacted on the power exchanges under DAM during December, 2024 was 5.13 % of the total energy supplied in the country. Comparing with the total volume of electricity transacted under DAM during last month November, 2024 i.e. **5,616.57 MU** which was 4.54 % of the total energy supplied (**123,790 MU**) in the country during November, 2024. Similarly, the total volume of electricity transacted under DAM during previous year i.e. December, 2023, was **4,757.55 MU** which was 3.86 % of the total energy supplied (**123,131 MU**) in the country during December, 2023.
- 1.2.** The DAM volume for December, 2024 in IEX is inclusive of Cross Border Transactions of Electricity with Nepal and Bhutan (details given at **Annexure XII**), which was **260.76 MU** (i.e. 43.20 MU bought by Nepal, 3.01 MU sold by Nepal, 214.55 MU bought by Bhutan).
- 1.3.** The Average Market Clearing Price (MCP) on IEX during the month of December, 2024 was ₹ **3.84/kWh**, which shows of an increase of 9.09 % & a decrease 18.12 % when compared with Wt. Avg. MCP's for the month of November, 2024 and December, 2023, which were ₹ **3.52/kWh** and ₹ **4.69/kWh**, respectively. On PXIL, the Average MCP during the month of December, 2024 was ₹ **6.55/kWh**, which shows of a decrease 22.94 & 31.34 % when compared with Wt. Avg. MCP for the month of November, 2024 and December, 2023, which were ₹ **8.50/kWh** & ₹ **9.54/kWh** respectively. On HPX, the Average MCP during the month of December, 2024 was ₹ **9.77/kWh**, which shows of a decrease 2.30 % when compared with Wt. Avg. MCP for the month of December, 2023, which was ₹ **10.00/kWh** and no transaction of electricity took place during November, 2024.
- 1.4.** The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX under DAM for December, 2024 vs November, 2024 and December, 2023 is shown below as **Figure-1**:



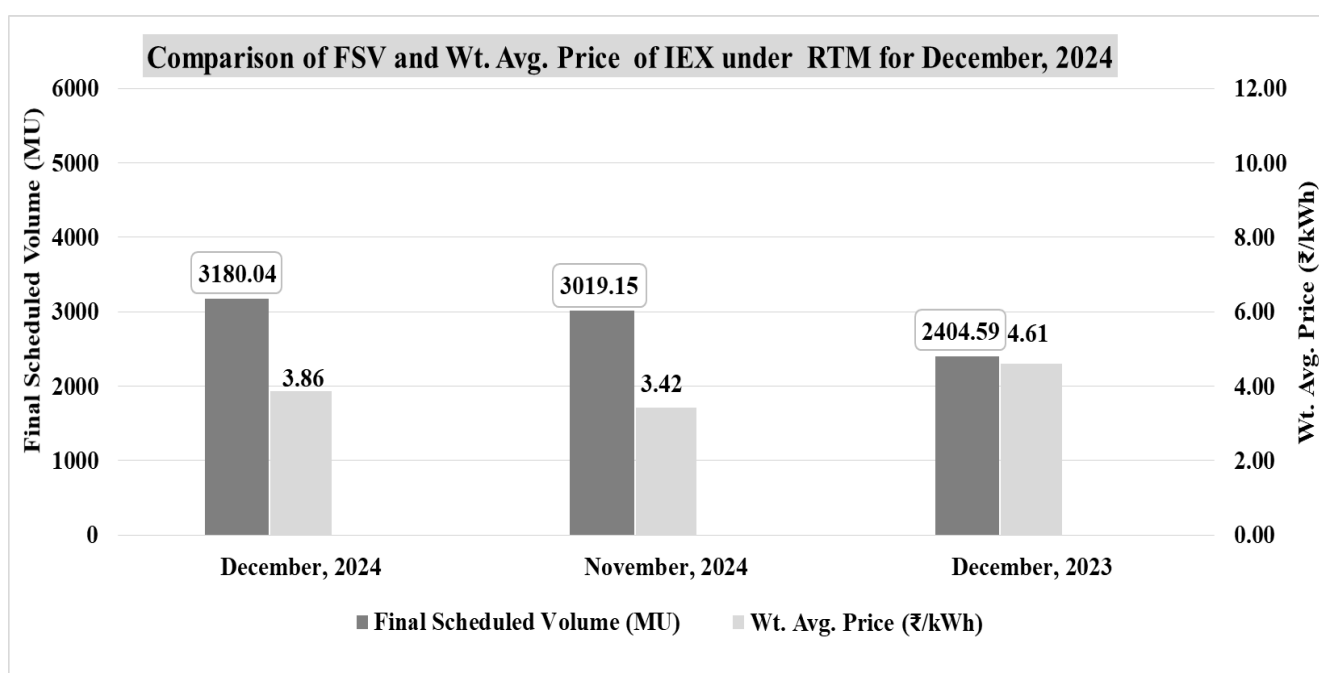
**Figure-1**

- 1.5.** The maximum Area Clearing Price (ACP) of ₹ 10.00/kWh in IEX was observed in all 13 regions during 269 time blocks from 2<sup>nd</sup> to 7<sup>th</sup>, 9<sup>th</sup> to 28<sup>th</sup> & 30<sup>th</sup> to 31<sup>st</sup> December, 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 44 time blocks from 4<sup>th</sup>, 13<sup>th</sup>, 21<sup>st</sup>, 25<sup>th</sup>, 28<sup>th</sup> & 31<sup>st</sup> December, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 10.00/kWh. In HPX, the maximum ACP of ₹ 10.00/kWh was observed in all 13 regions during 24 time blocks from 23<sup>rd</sup>, 25<sup>th</sup>, 27<sup>th</sup> to 30<sup>th</sup> December, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 10.00/kWh.
- 1.6.** The minimum ACP of ₹ 1.61/kWh in IEX was observed in 13 regions during the time block 02:15 - 02:30 Hrs on 4<sup>th</sup> December, 2024. Whereas, in PXIL, the minimum ACP of ₹ 4.36/kWh was observed in all 13 regions during 46 time blocks on different days of December, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 4.36/kWh. Further, in HPX, the minimum ACP of ₹ 4.58/kWh was observed in all 13 regions during 4 time blocks (17:00- 17:15) on 23<sup>rd</sup> December, 2024. As there was no congestion in transmission system, the MCP for these time blocks was also ₹ 4.58/kWh.

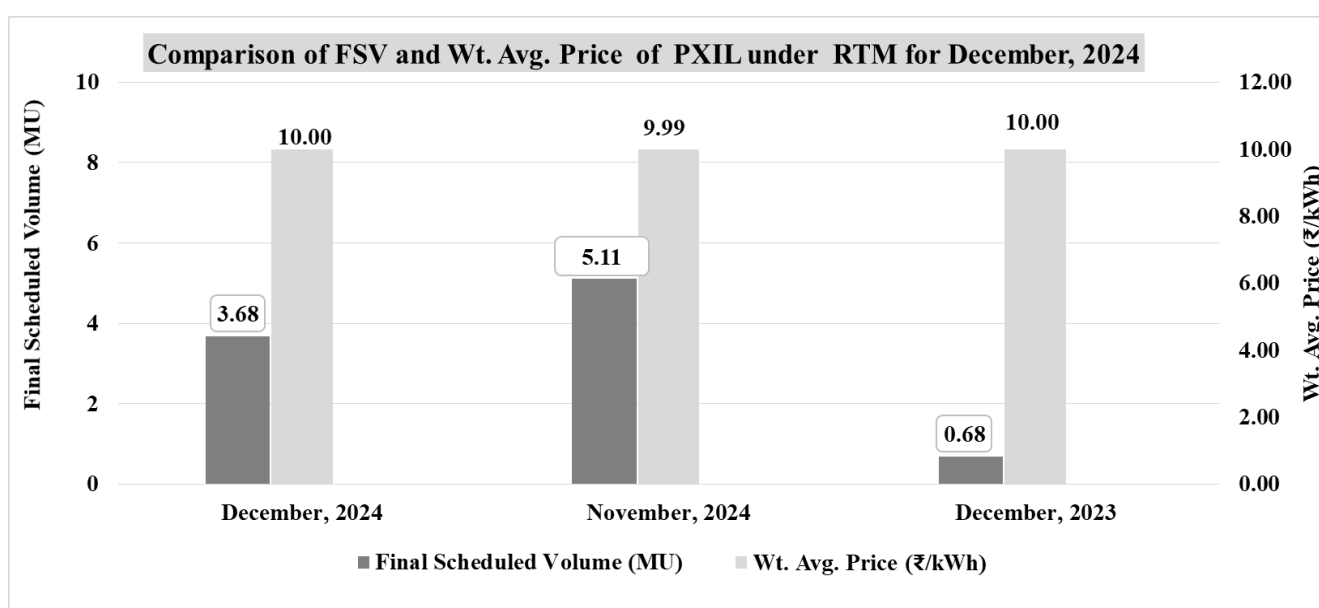
## 2. Real Time Market (RTM)

The volume of electricity transacted under RTM was 3,183.72 MU at a Wt. Avg. Price of ₹ 3.86/kWh in December, 2024.

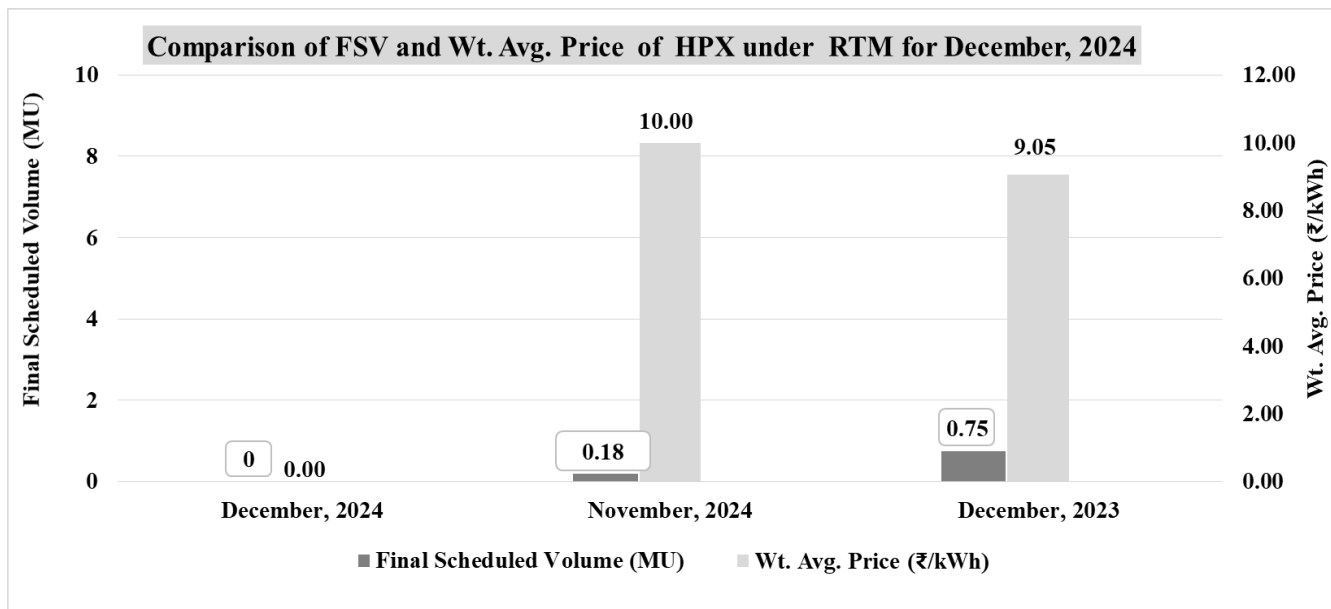
- 2.1. The total volume of electricity transacted on the power exchanges under Real Time Market in December, 2024 was **3,183.72 MU**, out of which **3,180.04 MU** (99.88 %) was transacted in IEX and **3.68 MU** (0.12 %) was transacted in PXIL. No transaction took place in HPX.
- 2.2. The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under RTM for December, 2024 vs November, 2024 and December, 2023 is shown below as **Figure-2, Figure-3 & Figure-4:**



**Figure-2**



**Figure-3**



**Figure-4**

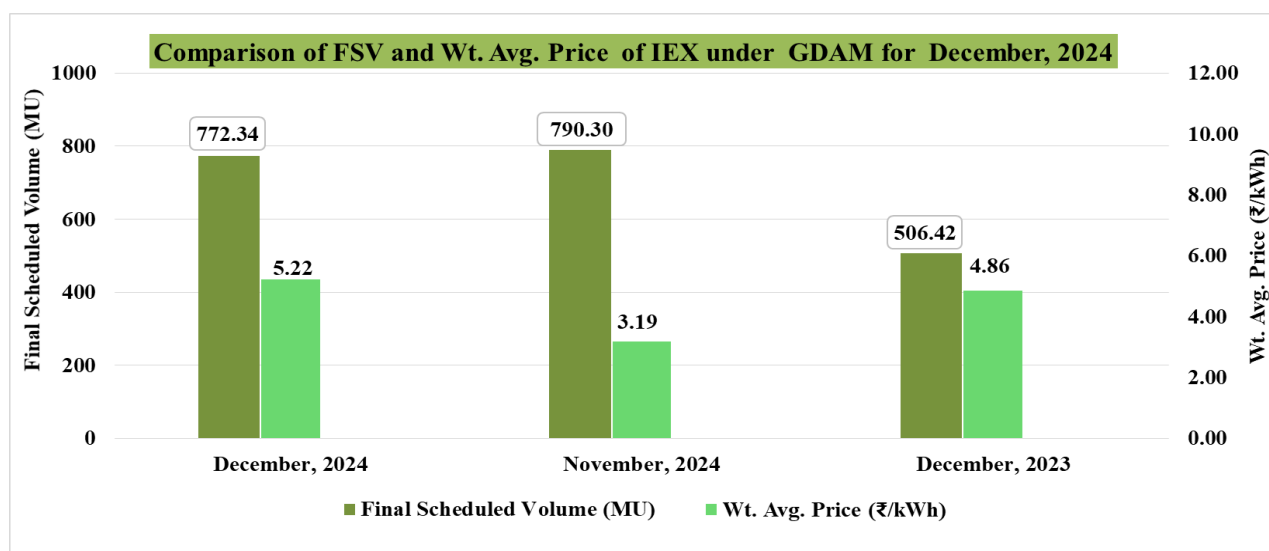
**2.3.** The RTM volume for December, 2024 in IEX is inclusive of Cross Border Transactions of Electricity with Nepal and Bhutan (details given at **Annexure XIII**), which was **44.12 MU** (i.e. 29.53 MU bought by Nepal, 8.31 MU bought by Bhutan, 6.28 MU sold by Nepal).

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

*The volume of electricity transacted under GDAM was 772.34 MU at a Wt. Avg. Price of ₹ 5.22/kWh in December, 2024.*

3.1. The volume of electricity transacted under GDAM in December, 2024 was **772.34 MU** (235.13 MU in Solar, 516.90 MU in Non-Solar and 20.31 MU in Hydro) in IEX at a Wt. Avg. MCP of ₹ **5.22/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 under GDAM for December, 2024 vs November, 2024 and December, 2023 is shown below as **Figure-5**:



**Figure-5**

3.3. There was no real time curtailment in the power exchanges under Green Day Ahead Market during the month of December, 2024, November, 2024 and December, 2023.

3.4. The **top 10 sellers** on the power exchanges under Green Day Ahead Market (GDAM) in December, 2024 were **Karnataka, ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED, ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED\_PSS-1, Madhya Pradesh, Adani Wind Energy Kutch Four Ltd. Nakhtrana, ADANI RENEWABLE ENERGY HOLDING FORTY ONE LIMITED\_PSS-3, Adani Green Energy Twenty Five B Limited\_infirm, Uttar Pradesh, ADANI SOLAR ENERGY RJ TWO PRIVATE LIMITED and Adani Green Energy Twenty Five B Limited\_PSS-2**, which constituted **72.05 %** of the market volume.

3.5. The **top 10 buyers** on the power exchanges under Green Day Ahead Market (GDAM) in December, 2024 were **DVC, Maharashtra, ArcelorMittal Nippon steel (ESIL), Tamil Nadu, Odisha, Haryana, Gujarat, Jharkhand, Karnataka and Delhi**, which constituted **90.02 %** of the market volume.

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

*The volume of electricity transacted under TAM was 990.64 MU at a Wt. Avg. Price of ₹ 5.30/kWh in December, 2024.*

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

| Month          | Total Volume<br>(in MU) | IEX in MU<br>(in % of total<br>volume) | PXIL in MU<br>(in % of total<br>volume) | HPX in MU<br>(in % of total<br>volume) |
|----------------|-------------------------|----------------------------------------|-----------------------------------------|----------------------------------------|
| December, 2024 | 1,553.44                | 407.79 (26.25 %)                       | 787.02 (50.66 %)                        | 358.63 (23.09 %)                       |
| November, 2024 | 990.64                  | 151.60 (15.30 %)                       | 295.16 (29.79 %)                        | 543.88 (54.90 %)                       |
| December, 2023 | 1,198.99                | 1071.93 (89.40 %)                      | 23.42 (1.95 %)                          | 103.64 (8.64 %)                        |

4.2. In the month of December, 2024, no transaction took place in IEX, PXIL & HPX under **High Price Term Ahead Market (HP-TAM)**.

4.3. With respect to the total energy supplied during the month of December, 2024 in the country, the volume of electricity traded on the power exchanges under TAM on delivery date basis represents **1.20 %** of the total energy supplied. The same was **0.80 %** in November, 2024 and **0.97 %** in December, 2023.

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

4.5. There was real time curtailment of **32.04 MU** under TAM, out of which 11.90 MU in IEX, 14.03 MU in PXIL and 6.11 MU in HPX.

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 December, 2024 with November, 2024 and December, 2023 are shown in Table – 1A & 1B:

**(i) Final Scheduled Volume (MU), December, 2024 vis- a- vis November, 2024 and December, 2023**

| Exchange | Period                        | Final Scheduled Volume (MU) |        |         |                       |         |
|----------|-------------------------------|-----------------------------|--------|---------|-----------------------|---------|
|          |                               | Daily or<br>Any Day         | Weekly | Monthly | Anyday<br>Single Side | Total   |
| IEX      | December, 2024                | 149.65                      | -      | 11.00   | 247.14                | 407.79  |
|          | November, 2024                | 151.60                      | -      | -       | -                     | 151.60  |
|          | %Change<br>(Month over Month) | -1.29                       | NA     | NA      | NA                    | 168.99  |
|          | December, 2023                | 501.63                      | 65.21  | 140.74  | 364.35                | 1071.93 |
|          | %Change<br>(Year over Year)   | -70.17                      | NA     | -92.18  | -32.17                | -61.96  |
| PXIL     | December, 2024                | 307.22                      | -      | 5.58    | 474.22                | 787.02  |
|          | November, 2024                | 278.15                      | -      | -       | 17.01                 | 295.16  |
|          | %Change<br>(Month over Month) | 10.45                       | NA     | NA      | 2687.89               | 166.64  |

| Exchange | Period                     | Final Scheduled Volume (MU) |        |         |                    |         |
|----------|----------------------------|-----------------------------|--------|---------|--------------------|---------|
|          |                            | Daily or Any Day            | Weekly | Monthly | Anyday Single Side | Total   |
|          | December, 2023             | 20.17                       | -      | 3.25    | -                  | 23.42   |
|          | %Change (Year over Year)   | 1423.15                     | NA     | 71.69   | NA                 | 3260.46 |
| HPX      | December, 2024             | 195.35                      | -      | 79.00   | 84.28              | 358.63  |
|          | November, 2024             | 166.32                      | -      | 23.05   | 354.51             | 543.88  |
|          | %Change (Month over Month) | 17.45                       | NA     | 242.73  | -76.23             | -34.06  |
|          | December, 2023             | 20.60                       | -      | -       | 83.04              | 103.64  |
|          | %Change (Year over Year)   | 848.30                      | NA     | NA      | 1.49               | 246.03  |

- : No transaction took place

NA: Not Applicable

**Table: 1A**

**(ii) Wt. Avg. MCP, December, 2024 vis- a- vis November, 2024 and December, 2023**

| Exchange | Period                     | Wt. Average MCP (₹/kWh) |        |         |                    |
|----------|----------------------------|-------------------------|--------|---------|--------------------|
|          |                            | Daily or Any Day        | Weekly | Monthly | Anyday Single Side |
| IEX      | December, 2024             | 4.91                    | -      | 4.25    | 5.32               |
|          | November, 2024             | 5.18                    | -      | -       | -                  |
|          | %Change (Month over Month) | -5.21                   | NA     | NA      | NA                 |
|          | December, 2023             | 5.45                    | 6.15   | 5.90    | 6.32               |
|          | %Change Year over Year)    | -9.91                   | NA     | -27.97  | -15.82             |
| PXIL     | December, 2024             | 5.19                    | -      | 3.50    | 5.55               |
|          | November, 2024             | 5.36                    | -      | -       | 5.03               |
|          | %Change (Month over Month) | -3.17                   | NA     | NA      | 10.34              |
|          | December, 2023             | 8.79                    | -      | 9.50    | -                  |
|          | %Change (Year over Year)   | -40.96                  | NA     | -63.16  | NA                 |
| HPX      | December, 2024             | 5.39                    | -      | 5.01    | 5.67               |
|          | November, 2024             | 6.55                    | -      | 5.00    | 4.75               |
|          | %Change (Month over Month) | -17.71                  | NA     | 0.20    | 19.37              |
|          | December, 2023             | 5.65                    | -      | -       | 7.46               |
|          | %Change Year over Year)    | -4.60                   | NA     | NA      | -23.99             |

-: No transaction took place

NA: Not Applicable

**Table: 1B**

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

The volume of electricity transacted under DAC & ID was 396.18 MU at a Wt. Avg. Price of ₹ 6.67/kWh in December, 2024.

- 5.1. The volume of electricity transacted on IEX, PXIL and HPX under DAC & ID on delivery date basis during December, 2024 were **89.94 MU, 236.95 MU and 69.29 MU**, respectively.
- 5.2. In the month of December, 2024, no transaction took place in IEX, PXIL and HPX under **High Price Day Ahead Contingency & Intra Day (HP- DAC & ID)**.
- 5.3. In December, 2024, there was no transmission congestion under DAC & ID in IEX, PXIL & HPX.
- 5.4. In December, 2024, there was real time curtailment of **0.74 MU** under DAC & ID in IEX only.
- 5.5. The total volume of electricity transacted under DAC & ID under Day Ahead Contingency & Intra Day contracts during December, 2024 and its comparison with November, 2024 and December, 2023 on delivery date basis are shown in Tables- 2A & 2B:

### (i) Final Scheduled Volume (MU), December, 2024 vis- a- vis November, 2024 and December, 2023

| Exchange | Period                     | Final Scheduled Volume (MU) |           |        |
|----------|----------------------------|-----------------------------|-----------|--------|
|          |                            | Day Ahead Contingency       | Intra Day | Total  |
| IEX      | December, 2024             | 86.89                       | 3.05      | 89.94  |
|          | November, 2024             | 49.73                       | 0.58      | 50.31  |
|          | %Change (Month over Month) | 74.72                       | 425.86    | 78.77  |
|          | December, 2023             | 147.43                      | 0.94      | 148.37 |
|          | %Change (Year over Year)   | -41.06                      | 224.47    | -39.38 |
| PXIL     | December, 2024             | 225.93                      | 11.02     | 236.95 |
|          | November, 2024             | 148.20                      | 11.50     | 159.70 |
|          | %Change (Month over Month) | 52.45                       | -4.17     | 48.37  |
|          | December, 2023             | 127.82                      | 13.46     | 141.28 |
|          | %Change (Year over Year)   | 76.76                       | -18.13    | 67.72  |
| HPX      | December, 2024             | 64.97                       | 4.32      | 69.29  |
|          | November, 2024             | 20.74                       | 8.60      | 29.34  |
|          | %Change (Month over Month) | 213.26                      | -49.77    | 136.16 |
|          | December, 2023             | 72.20                       | 3.42      | 75.62  |
|          | %Change (Year over Year)   | -10.01                      | 26.32     | -8.37  |

- : No transaction took place

NA: Not Applicable

**Table: 2A**

(ii) Wt. Avg. MCP, December, 2024 vis- a- vis November, 2024 and December, 2023

| Exchange | Period                     | Wt. Average MCP (₹/kWh) |           |
|----------|----------------------------|-------------------------|-----------|
|          |                            | Day Ahead Contingency   | Intra Day |
| IEX      | December, 2024             | 5.83                    | 9.47      |
|          | November, 2024             | 5.64                    | 8.41      |
|          | %Change (Month over Month) | 3.37                    | 12.60     |
|          | December, 2023             | 6.36                    | 9.42      |
|          | %Change Year over Year)    | -8.33                   | 0.53      |
| PXIL     | December, 2024             | 6.04                    | 8.81      |
|          | November, 2024             | 4.89                    | 7.13      |
|          | %Change (Month over Month) | 23.52                   | 23.56     |
|          | December, 2023             | 7.62                    | 9.22      |
|          | %Change (Year over Year)   | -20.73                  | -4.45     |
| HPX      | December, 2024             | 9.39                    | 8.53      |
|          | November, 2024             | 7.21                    | 7.23      |
|          | %Change (Month over Month) | 30.24                   | 17.98     |
|          | December, 2023             | 8.65                    | 9.77      |
|          | %Change Year over Year)    | 8.55                    | -12.69    |

- : No transaction took place

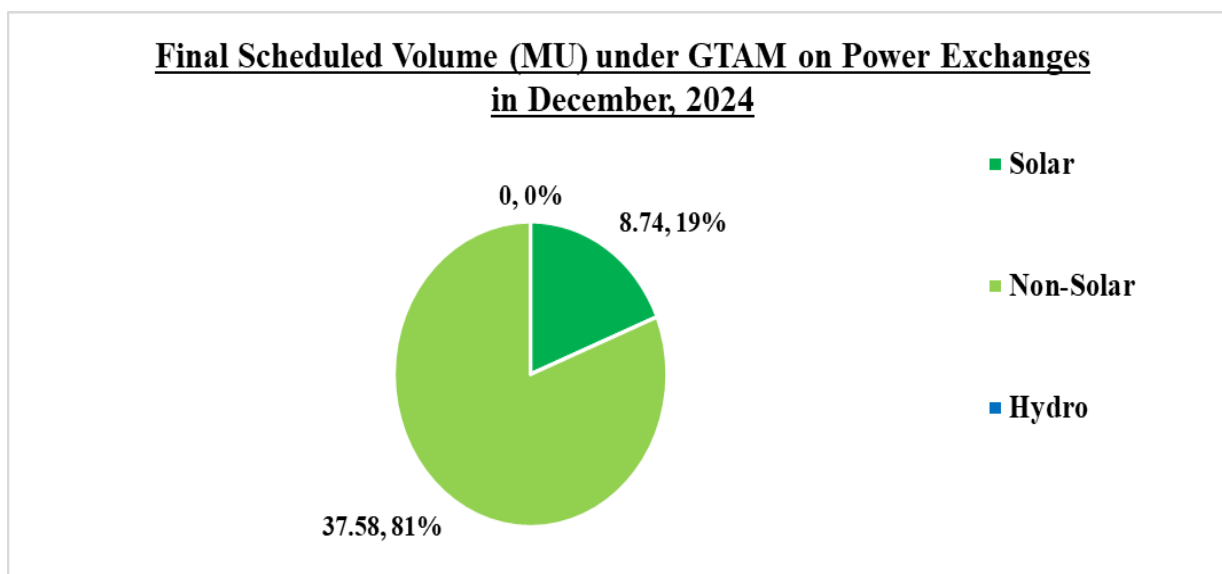
NA: Not Applicable

**Table: 2B**

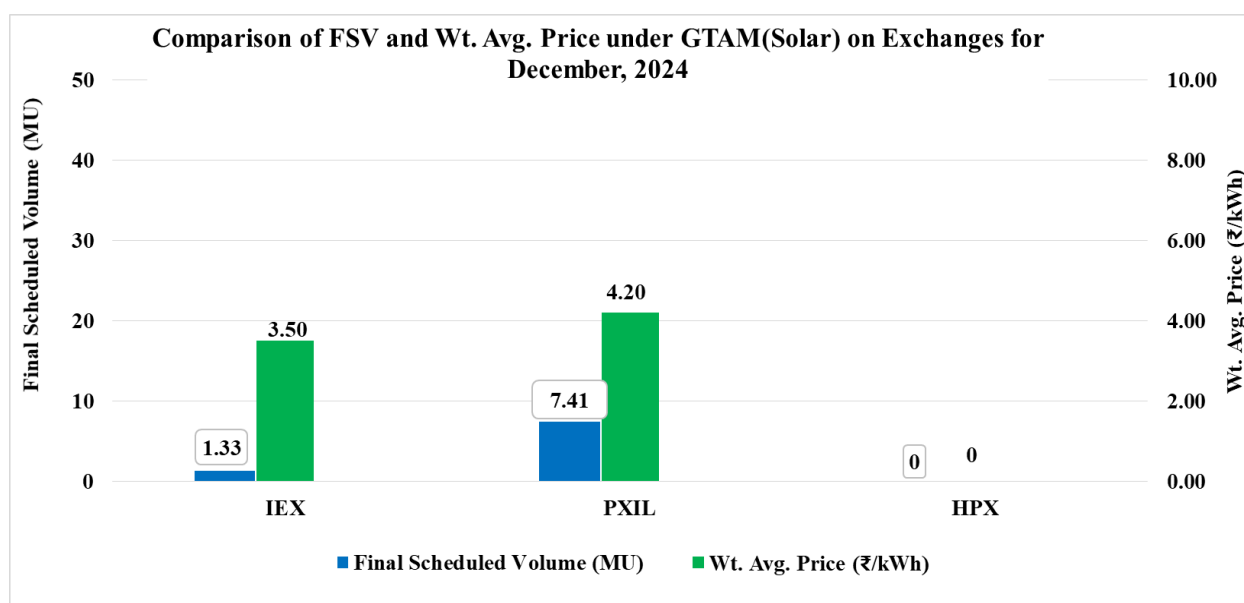
## 6. Green Term Ahead Market (GTAM)

*The volume of electricity transacted under GTAM was 46.32 MU at a Wt. Avg. Price of ₹ 4.70/kWh in December, 2024.*

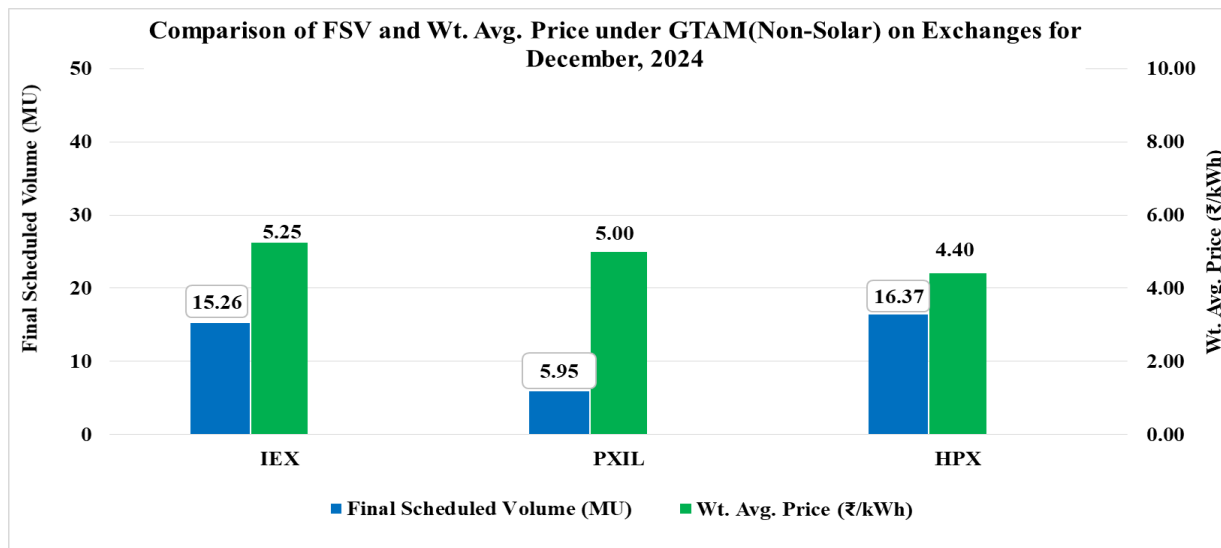
The total volume of electricity transacted in the PXs under GTAM on delivery date basis was **46.32 MU (8.74 MU in Solar and 37.58 MU in Non-Solar)**. The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under GTAM for December, 2024 is shown below as **Figure-6, Figure-7 and Figure-8**:



**Figure-6**



**Figure-7**

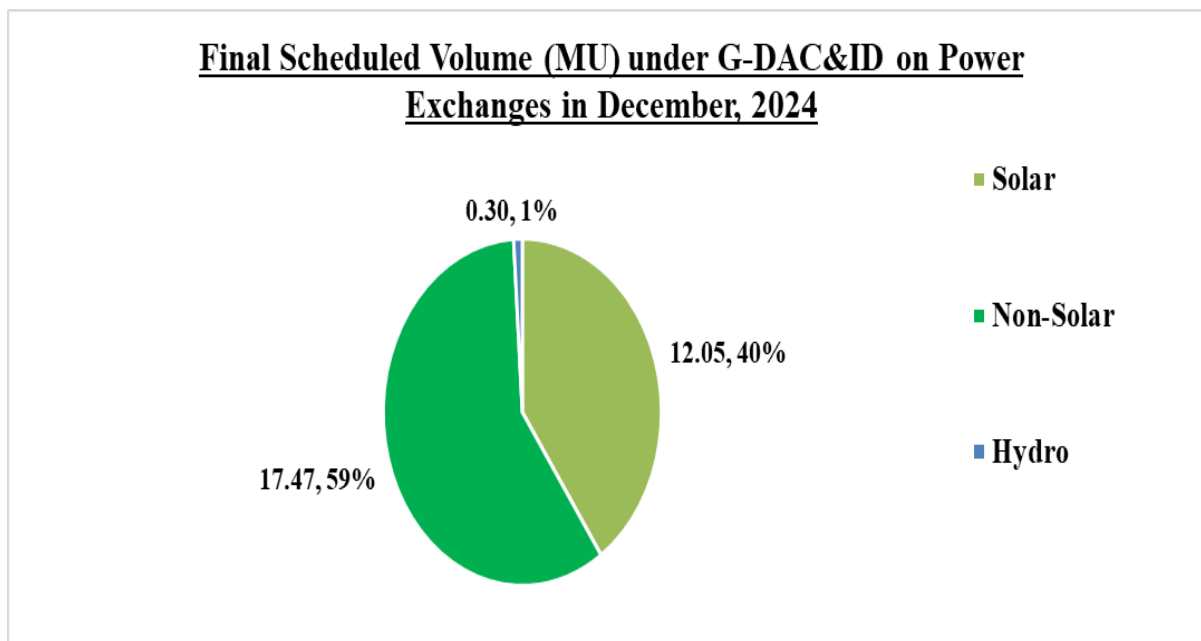


**Figure-8**

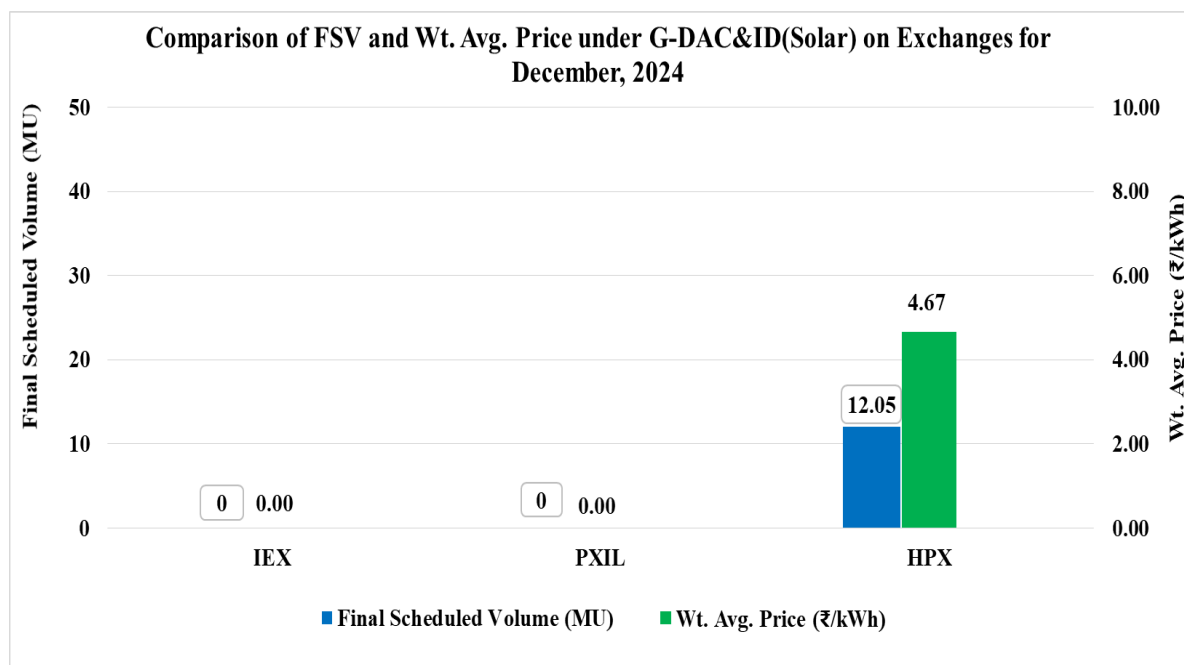
## 7. Green Day Ahead Contingency & Intra Day (G-DAC & ID)

The volume of electricity transacted under G-DAC & ID was 29.82 MU at a Wt. Avg. Price of ₹ 4.57/kWh in December, 2024.

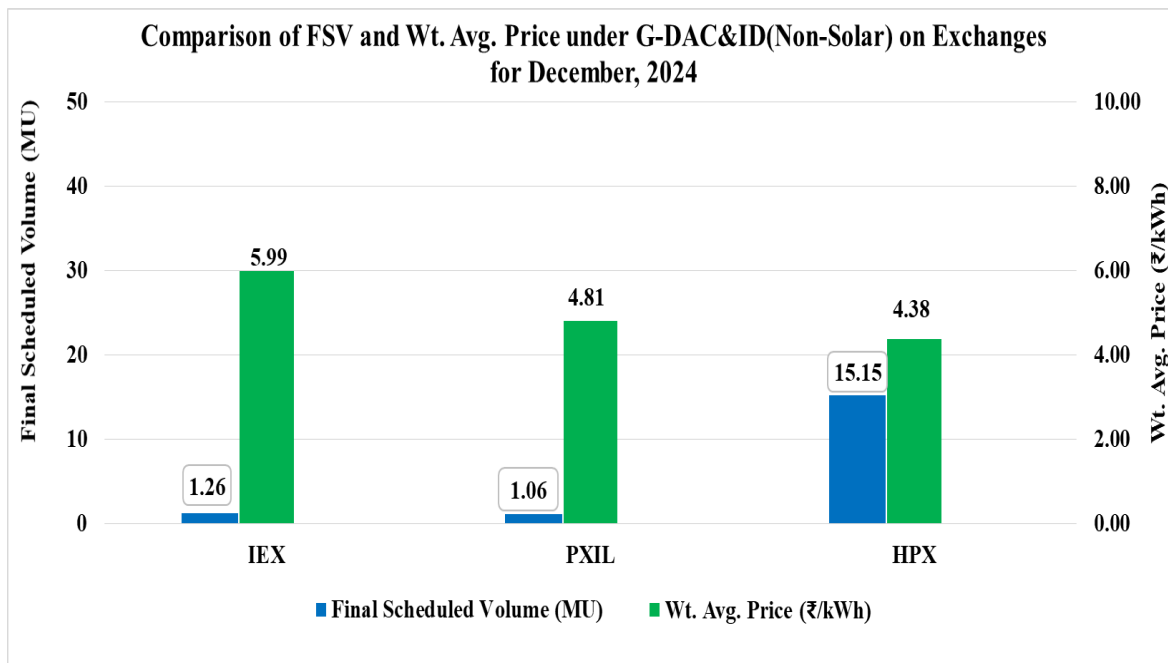
The total volume of electricity transacted in the IEX, PXIL & HPX under G-DAC & ID on delivery date basis was **29.82 MU** (12.05 MU in Solar, 17.47 MU in Non-Solar and 0.30 MU in Hydro), respectively. The Comparison of Final Scheduled Volume (FSV) and Wt. Avg. Price of IEX, PXIL and HPX under G-DAC & ID for December, 2024 is shown below as **Figure-9, Figure-10, Figure-11 and Figure-12:**



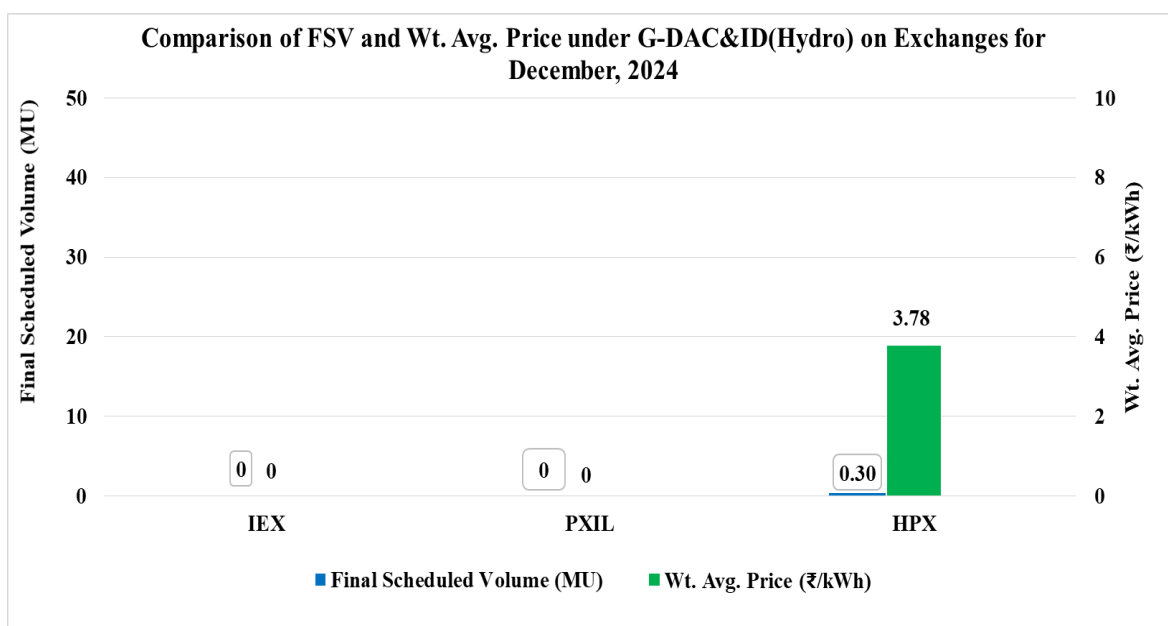
**Figure-9**



**Figure-10**



**Figure-11**



**Figure-12**

## 8. Bilateral (GNA & t-GNA) Transactions:

The total volume of electricity transacted through **bilateral (GNA & t-GNA) transactions** under short term market in December, 2024 was **5433.70 MU**. The total buy volume of electricity transacted through direct and trader transactions in December, 2024 were **2570.82 MU** and **2862.88 MU** respectively. The details of bilateral (GNA & t-GNA) transactions of Electricity during December, 2024 are shown in table below:

| December, 2024 | Direct  | Traders | Total Bilateral Transaction (MU) |
|----------------|---------|---------|----------------------------------|
| <b>Total</b>   | 2570.82 | 2862.88 | 5433.70                          |
| <b>Minimum</b> | 0.25    | 0.23    | 0.03                             |
| <b>Maximum</b> | 950.54  | 818.84  | 950.38                           |

**Table -3A**

The region-wise maximum/ minimum volume of electricity transacted bilaterally during December, 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>            | 123.28 | 41.52  | 1326.91 | 562.53 | 812.38 | 1421.53 | 306.49 | 798.00 | 1.76   | 39.30  |
| <b>Minimum</b>          | 1.42   | 0.74   | 0.48    | 0.24   | 0.25   | 0.23    | 91.50  | 0.38   | -      | 1.12   |
| <b>Maximum</b>          | 103.33 | 25.05  | 950.54  | 145.09 | 435.73 | 818.84  | 117.41 | 375.54 | 1.76   | 38.18  |

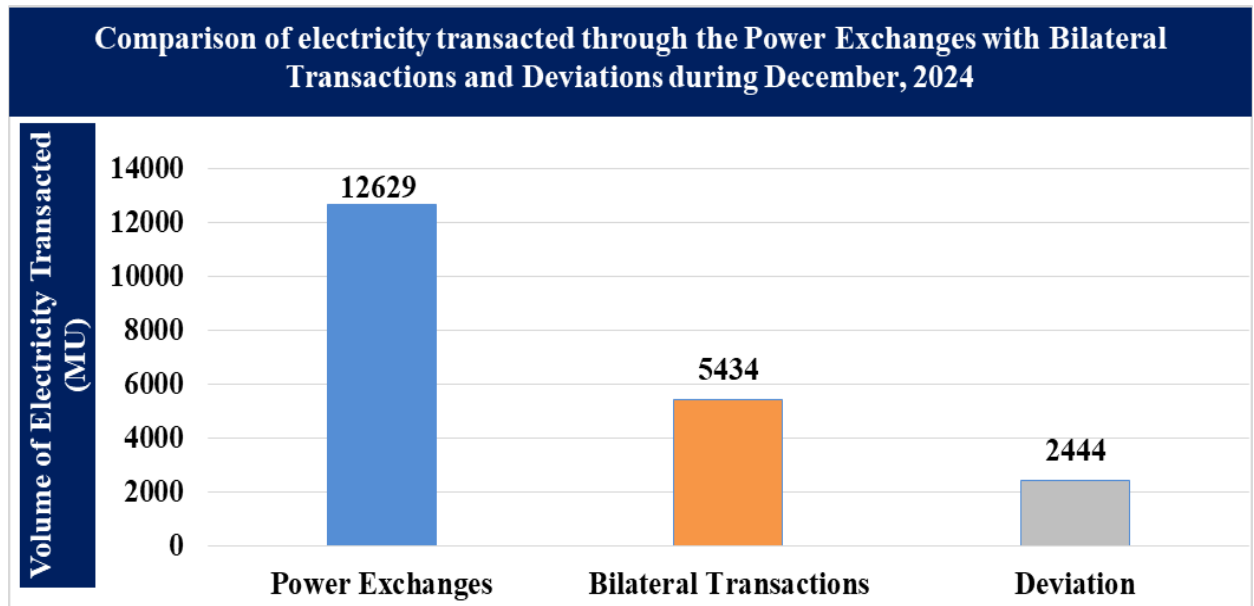
**Table-3B**

**8.1. The top 5 buyers** on bilateral transaction through direct transactions in December, 2024 were **MPPMCL, JK\_LADAKH, CR\_IR\_MS, Uttarakhand and MPSEB**, which constituted **71.01%** of the market volume. Whereas **top 5 buyers** on bilateral transaction through traders in December, 2024 were **RUVNL, Himachal Pradesh, KSEB, TANGEDCO and Uttarakhand**, which constituted **66.00 %** of the market volume. [Annexure III]

**8.2. The top 5 sellers** on bilateral transaction through direct transactions in December, 2024 were **UPPCL, PUNJAB, JITPL, DHARIWAL\_STU\_MH and RKM\_POWER**, which constituted **57.69 %** of the market volume. Whereas **top 5 sellers** on bilateral transaction through traders in December, 2024 were **SKS\_Raigarh, JPL2, JPNIGRIE\_JNSTPP, Punjab and APL\_Raipur\_TPP**, which constituted **35.13 %** of the market volume. [Annexure III]

**8.3. Deviation Volume** -The volume of Deviation observed in December, 2024 in import and export were **2,478.15 MU** and **2,409.60 MU** respectively. The total volume of Deviation observed in December, 2024 can be taken as **2,443.87 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 December, 2024 is shown in **Figure 13**:

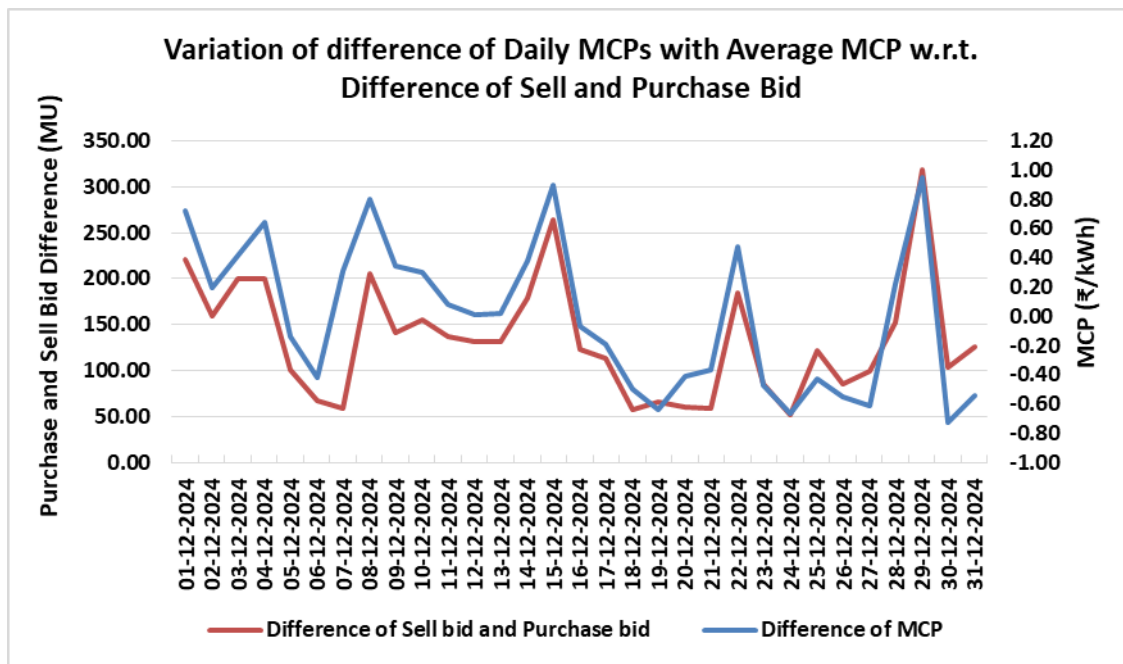


**Figure -13**

## 9. Analysis of movement of prices observed under DAM during December, 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 December, 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 Peak Demand. Further, the regression analysis revealed that the elasticity of the Daily Wt. Avg. MCP with respect Peak Demand was **3.42** in December, 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 – 14:**

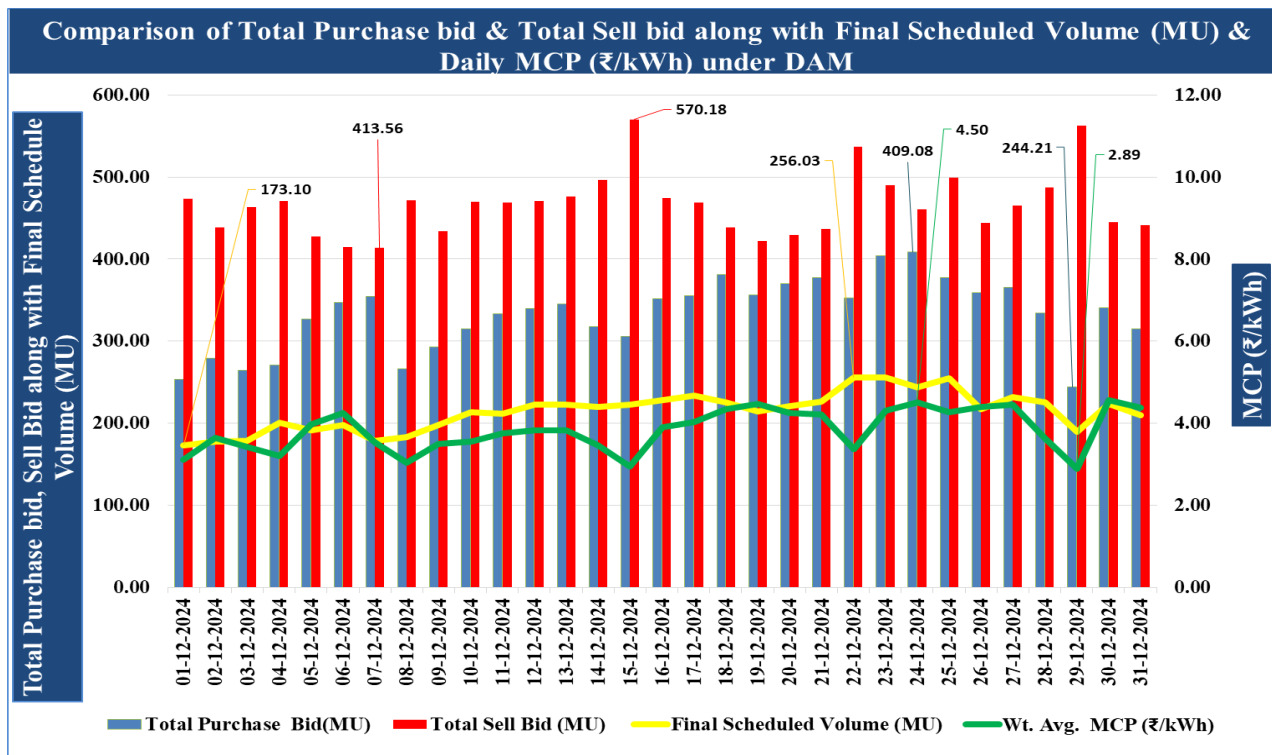


Figure-14

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 December, 2024, it is observed that on fourth Sunday (22<sup>nd</sup> December, 2024), FSV showed increasing trend in comparison to third Saturday (21<sup>st</sup> December, 2024). The detailed analysis on this is given at **Appendix-I**.

9.6. A comparison of maximum, minimum, daily, evening time MCP is shown in **Figure-15**. The same are also tabulated in **Annexure-I**.

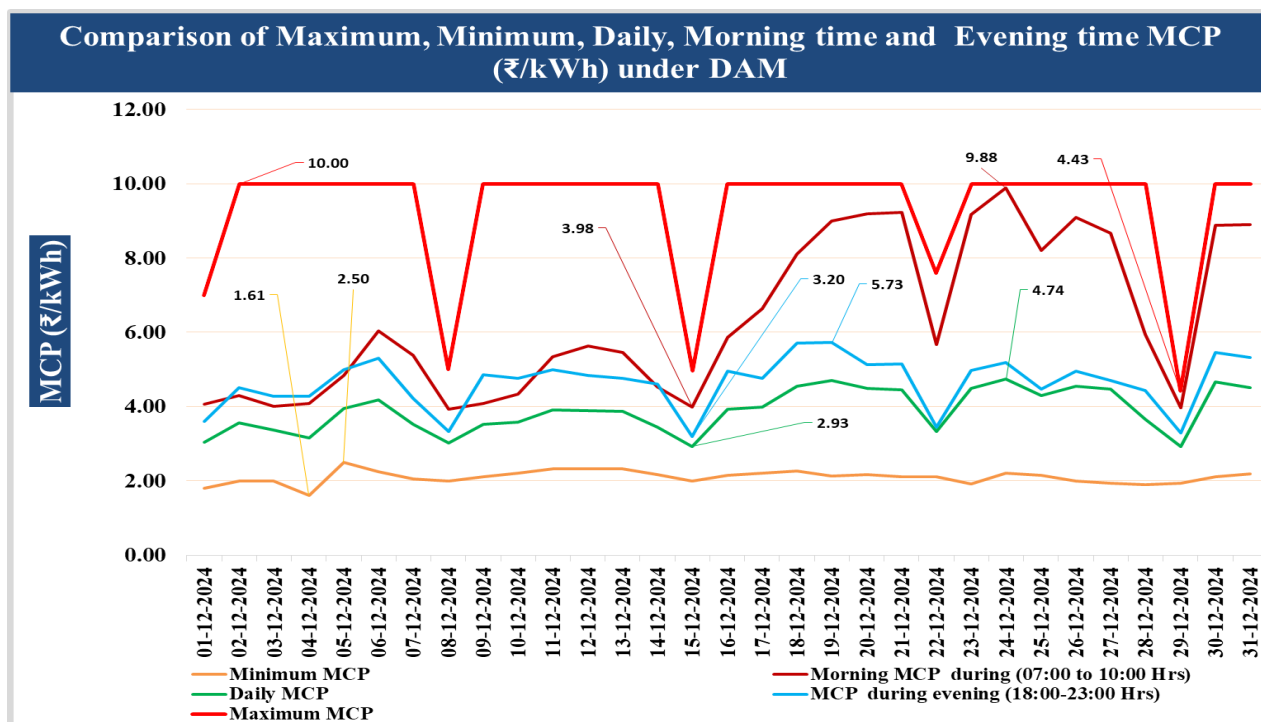
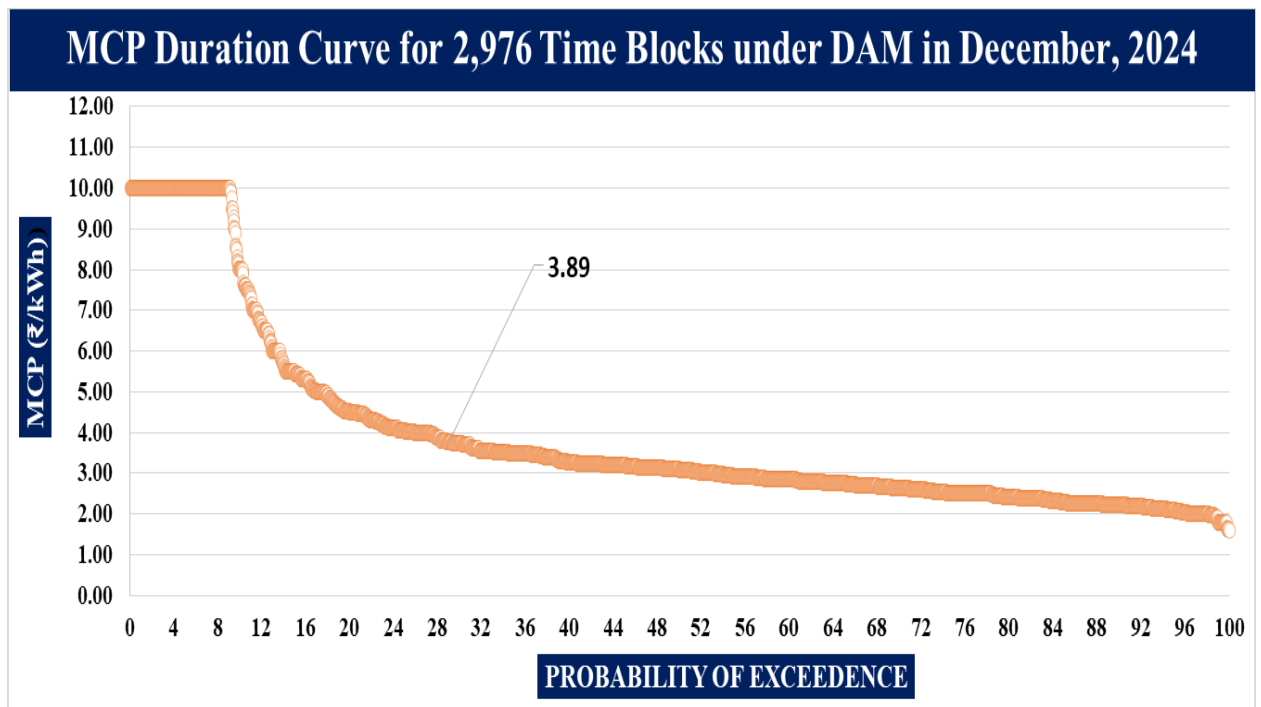


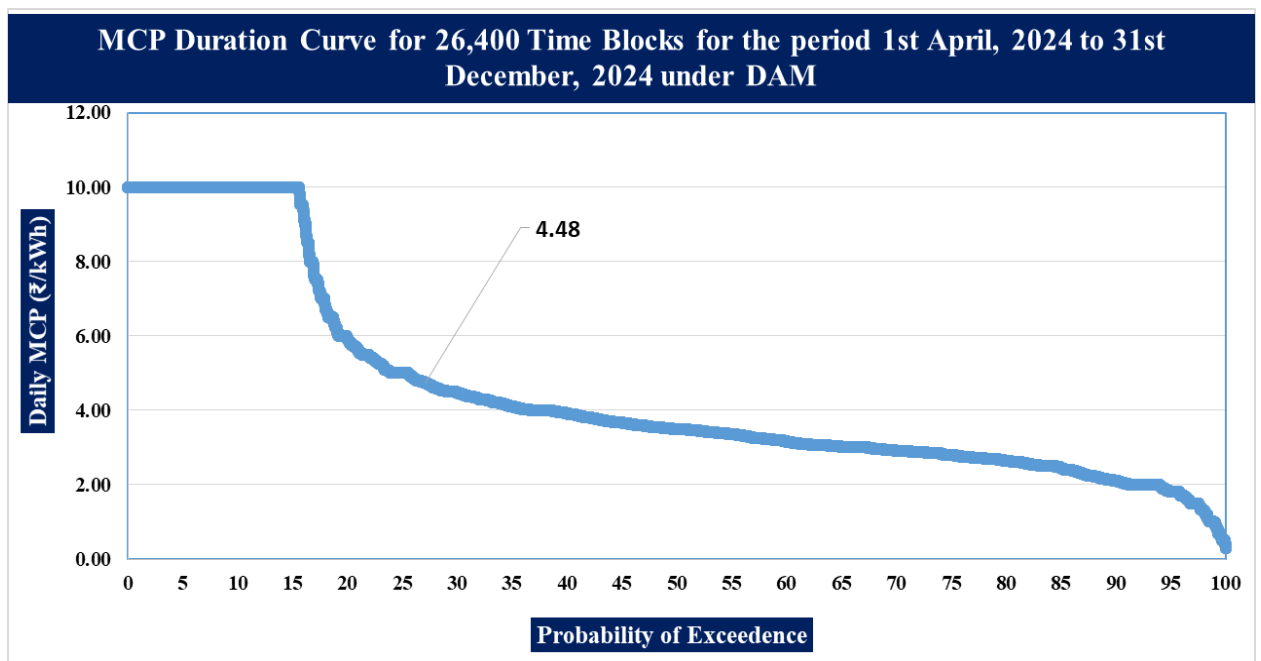
Figure-15

9.7. The Market Clearing Price duration curves for time block wise MCP for the month of December, 2024 is shown in **Figure-16**, whereas the day wise MCP duration curve for the period 1<sup>st</sup> April, 2024 to 31<sup>st</sup> December, 2024 is shown in **Figure-17**.



\* This MCP is average of all 2976 time blocks.

**Figure – 16**



\* This MCP is average of all 26,400 time blocks.

**Figure – 17**

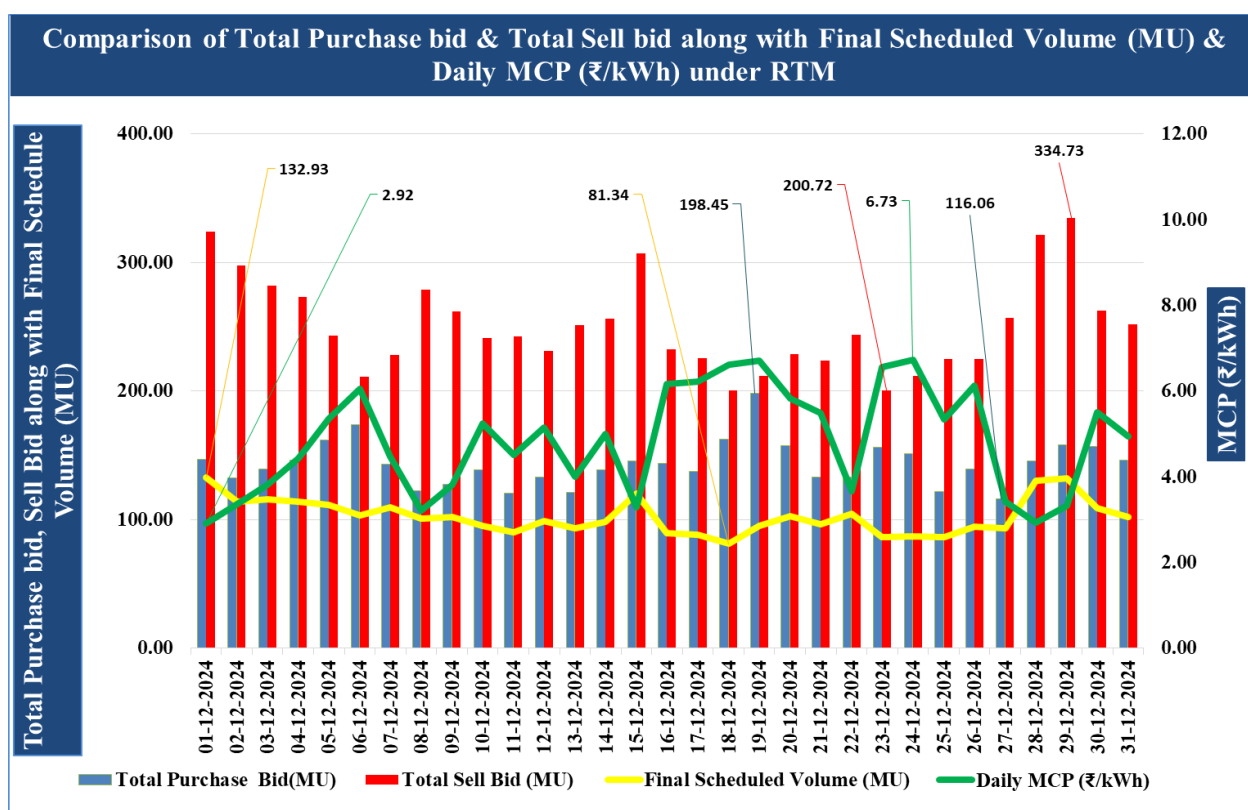
9.8. It can be seen in figure 16 above that in the MCP duration curve of December, 2024, for 30.00 % of the time MCP was above Wt. Avg. MCP of the month (i.e. ₹ 3.89/kWh) and almost 70.00 % of the time MCP was below the Wt. Avg. MCP of the month. Similarly, it can be seen in the MCP duration curve from 1<sup>st</sup> April, 2024 to 31<sup>st</sup> December, 2024 (figure-16), that for 28.00 % of the

time the MCP was above the Wt. Avg. MCP for the period (i.e. ₹ 4.48/kWh) and for 72.00 % 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 December, 2024, the maximum FSV occurred mostly during **the time period 03-04 Hrs** (on 17 no. of days). Whereas, the maximum MCP occurred mostly during **the time period 17-18 Hrs** (on 10 no. of days). Similarly, the minimum FSV occurred mostly during **the time period 20-21 Hrs** (on 17 no. of days). Whereas, the minimum MCP occurred mostly during **the time period 13-14 Hrs** (on 08 no. of days). [**Annexure VI**]
- 9.11.** In December, 2024, there was no congestion in IEX, PXIL and HPX. Further, in November, 2024, there was no congestion in IEX & PXIL and no transaction of electricity took place in HPX. Further, in December, 2023, there was no congestion in IEX, PXIL & HPX.
- 9.12.** In December, 2024, there was **no** real time curtailment in IEX, PXIL and HPX. Further, in November, 2024, there was **no** real time curtailment in IEX & PXIL and no transaction of electricity took place in HPX. Further in December, 2023, there was **no** real time curtailment IEX, PXIL & HPX.
- 9.13.** The **top 10 sellers** on the power exchanges under Day Ahead Market (**DAM**) in December, 2024 were **Uttar Pradesh, Chhattisgarh, Odisha, Jindal Power Ltd. Stg-II, Bihar, Adani Power Limited-Raipur TPP, West Bengal, Jindal Power, Adani Power Limited-Rajgarh TPP and Haryana**, which constituted **64.89 %** of the market volume. [**Annexure VII**]
- 9.14.** The **top 10 buyers** on the power exchanges under Day Ahead Market (**DAM**) in December, 2024 were **Telangana, Gujarat, Maharashtra, Andhra Pradesh, Uttar Pradesh, Tamil Nadu, Madhya Pradesh, Rajasthan, J&K and Druk Green Power**, which constituted **83.21 %** of the market volume. [**Annexure VII**]
- 9.15.** The total volume of electricity purchased by Discoms/Licensees under DAM in December, 2024 was **6,269.66 MU**, which constituted **94.38 %** 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 December, 2024 was **3,500.86 MU**, which constituted **52.70 %** of total volume of electricity sold on the power exchanges.

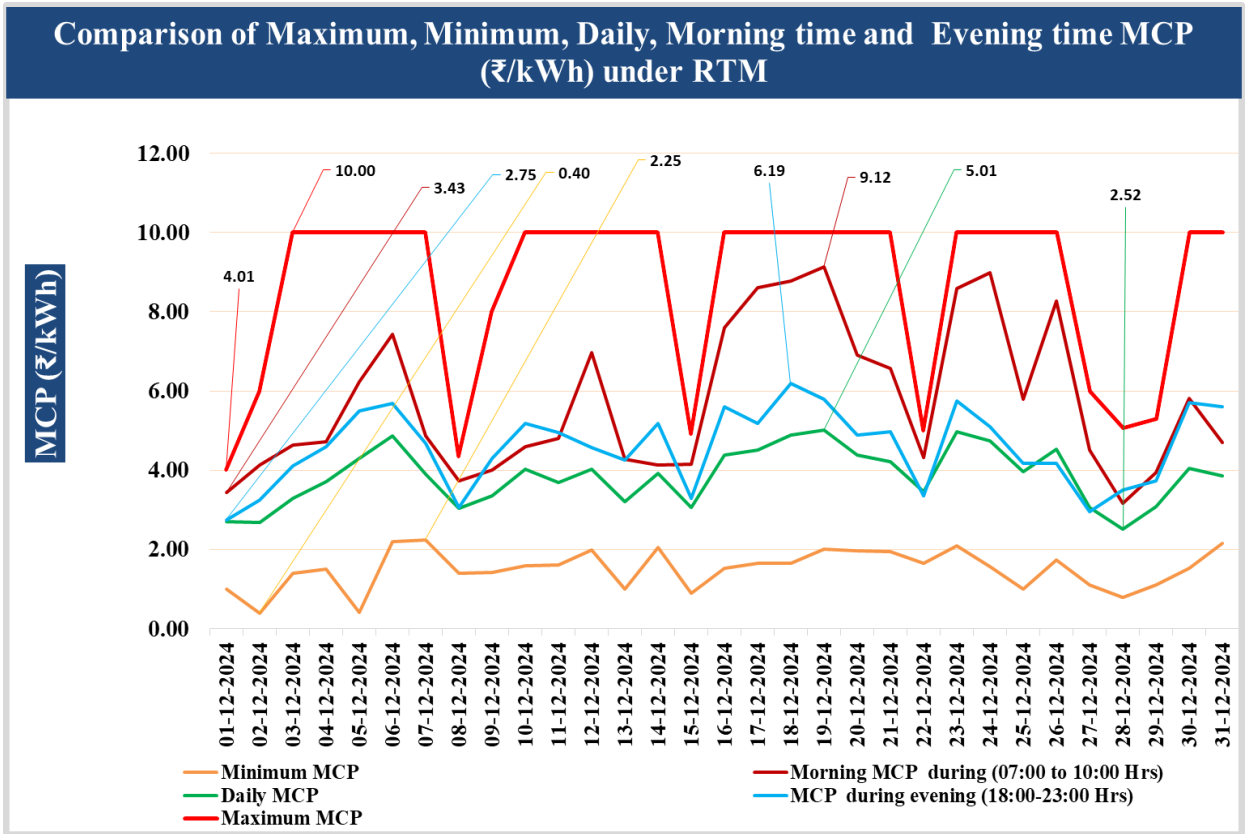
## 10. Analysis of movement of prices observed under Real Time Market (RTM) transactions in December, 2024

- 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 Peak Demand. Further, the regression analysis revealed that the elasticity of the Daily Wt. Avg. MCP with respect to Peak Demand was **4.16** in December, 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-18** below:



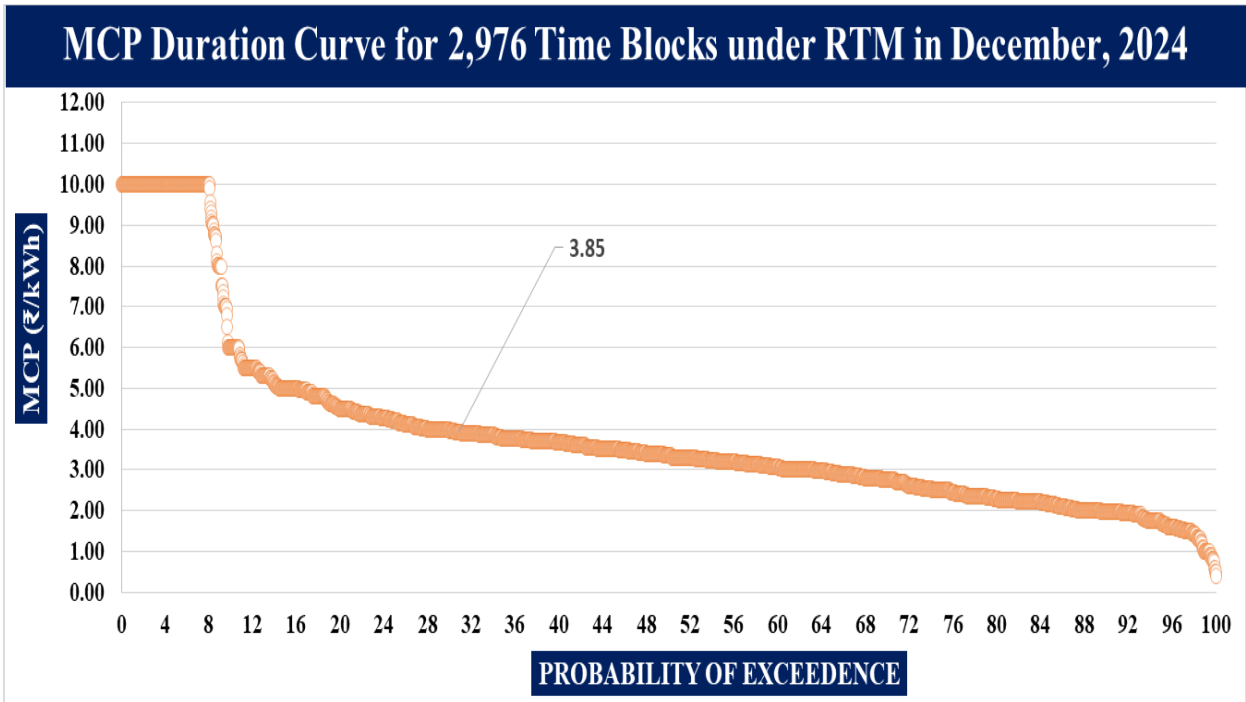
**Figure-18**

- 10.4. A comparison of maximum, minimum, daily, evening time MCP is shown in **Figure-19**. The same are also tabulated in **Annexure-VIII**.



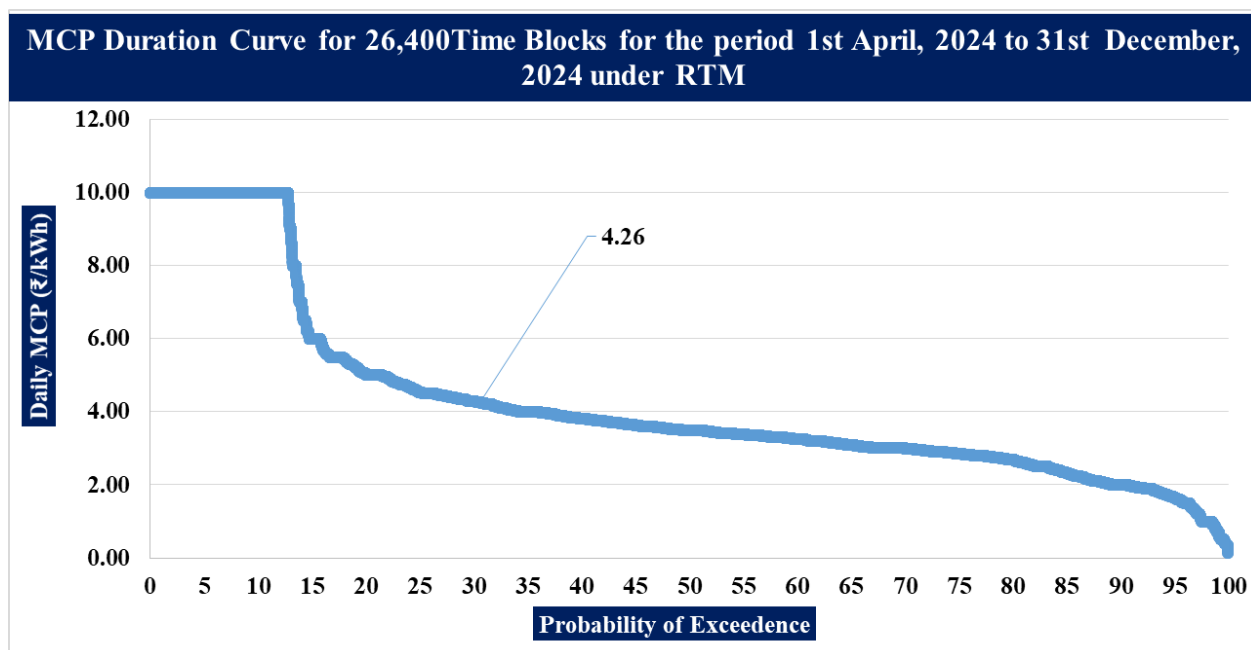
**Figure-19**

**10.5.** The Market Clearing Price duration curves for time block wise MCP for the month of December, 2024 is shown in **Figure-20**, whereas the day wise MCP duration curve for the period 1<sup>st</sup> April, 2024 to 31<sup>st</sup> December, 2024 is shown in **Figure-21**.



\* This MCP is average of all 2976 time blocks.

**Figure-20**



\* This MCP is average of all 26,400 time blocks.

**Figure-21**

- 10.6.** It can be seen in figure 20 above that in the MCP duration curve of December, 2024, for 32.00 % of the time the MCP was above the Wt. Avg. MCP of the month (i.e. ₹ 3.85/kWh) and for 68.00 % 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, 2024 to 31<sup>st</sup> December, 2024 (figure 20) that, for 31.00 % of the time the Daily Wt. Avg. MCP was above the Wt. Avg. MCP for the period (i.e. ₹ 4.26/kWh) and for 69.00 % of the time the Daily Wt. Avg. MCP was below the Wt. Avg. MCP for the period.
- 10.7.** In December, 2024, the maximum FSV occurred mostly during the **time period 12-14 Hrs** (on 10 no. of days). Whereas, the maximum MCP also occurred mostly during the **time period 18-19 Hrs** (on 10 no. of days). Similarly, the minimum FSV occurred mostly during the **time period 20-21 Hrs** (on 8 no. of days). Whereas, the minimum MCP occurred mostly during the **time period 13-15 Hrs** (on 8 no. of days).[Annexure X]
- 10.8.** There was no real time curtailment of in IEX, PXIL and HPX under Real Time Market (RTM) during December, 2024. Further, in November, 2024 no real time curtailment in IEX, PXIL and HPX. Similarly, in December, 2023, there was **no** real time curtailment IEX, PXIL & HPX.
- 10.9.** In December, 2024, there was no congestion in IEX, PXIL and HPX. Further, in November, 2024, there was no congestion in IEX, PXIL and HPX. Similarly, in December, 2023, there was no congestion in IEX, PXIL & HPX.
- 10.10.** The **top 10 sellers** on the power exchanges under Real Time Market (RTM) in December, 2024 were **Bihar, Tamil Nadu, Madhya Pradesh, Uttar Pradesh, West Bengal, Haryana, Odisha,**

**Jharkhand, Chhattisgarh, and Assam, which constituted 58.73 % of the market volume. [Annexure XI]**

**10.11. The top 10 buyers on the power exchanges under Real Time Market (RTM) in December, 2024 Telangana, Punjab, Maharashtra, Tamil Nadu, Rajasthan, Uttar Pradesh, Andhra Pradesh, J&K, Kerala and Gujarat, which constituted 78.22 % of the market volume. [Annexure XI]**

**10.12. The total volume of electricity purchased by Discoms/Licensees under RTM in December, 2024 was 3,061.10 MU, which constituted 96.26 % 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 December, 2024 was 2,234.93 MU, which constituted 70.28 % of total volume of electricity sold on the power exchanges.**

\*\*\*\*\*

- 
- 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, 2024 to December, 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, 2024              | 4,131.42                    | 3.85 | 0    | 4.65                          | 10.00 | -     | 0                          | 0    | 0   |
|                                    | May, 2024                | 4,315.58                    | 0    | 0.10 | 4.76                          | -     | 10.00 | 0                          | 0    | 0   |
|                                    | June, 2024               | 4,836.23                    | 0    | 0    | 4.84                          | -     | -     | 0                          | 0    | 0   |
| Total Quarter -I                   | April - June, 2024       | 13,283.23                   | 3.85 | 0.10 | 4.75                          | 10.00 | 10.00 | 0                          | 0    | 0   |
| Quarter -II                        | July, 2024               | 5,070.64                    | 0    | 0    | 4.64                          | -     | -     | 0                          | 0    | 0   |
|                                    | August, 2024             | 4,711.98                    | 0    | 0    | 4.15                          | -     | -     | 0                          | 0    | 0   |
|                                    | September, 2024          | 4,562.10                    | 0    | 0.08 | 4.28                          | -     | 10.00 | 0                          | 0    | 0   |
| Total Quarter -II                  | July - September, 2024   | 14,344.72                   | 0.00 | 0.08 | 4.36                          | -     | 10.00 | 0                          | 0    | 0   |
| Quarter -III                       | October, 2024            | 4,419.86                    | 0    | 0    | 4.03                          | -     | -     | 0                          | 0    | 0   |
|                                    | November, 2024           | 5,616.36                    | 0.21 | 0    | 3.52                          | 8.50  | -     | 0                          | 0    | 0   |
|                                    | December, 2024           | 6,643.13                    | 1.81 | 0.28 | 3.84                          | 6.55  | 9.77  | 0                          | 0    | 0   |
| Total Quarter -III                 | October - December, 2024 | 16,679.35                   | 2.02 | 0.28 | 3.78                          | 6.75  | 9.77  | 0                          | 0    | 0   |
| Total April, 2024 – December, 2024 |                          | 44,307.30                   | 5.87 | 0.46 | 4.26                          | 8.88  | 9.89  | 0                          | 0    | 0   |

**Annexure-II**

| Final Scheduled Volume under Term Ahead Market (TAM) for the months of April, 2024 to December, 2024 of IEX, PXIL and HPX (Delivery date basis) |                                 |                             |                 |                 |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------|-----------------|-----------------|------------------|
| Quarter                                                                                                                                         | Months                          | Final Scheduled Volume (MU) |                 |                 |                  |
|                                                                                                                                                 |                                 | IEX                         | PXIL            | HPX             | Total            |
| Quarter -I                                                                                                                                      | April, 2024                     | 1141.57                     | 1521.03         | 897.57          | 3560.17          |
|                                                                                                                                                 | May, 2024                       | 911.93                      | 1003.55         | 964.68          | 2976.16          |
|                                                                                                                                                 | June, 2024                      | 1054.97                     | 564.87          | 396.82          | 2016.66          |
| <b>Total Quarter – I</b>                                                                                                                        | <b>April - June, 2024</b>       | <b>3,108.47</b>             | <b>3,089.45</b> | <b>2,259.07</b> | <b>8,456.99</b>  |
| Quarter -II                                                                                                                                     | July, 2024                      | 337.92                      | 253.37          | 177.63          | 768.92           |
|                                                                                                                                                 | August, 2024                    | 646.40                      | 463.63          | 119.80          | 1,229.83         |
|                                                                                                                                                 | September, 2024                 | 966.43                      | 339.17          | 406.10          | 1,711.70         |
| <b>Total Quarter -II</b>                                                                                                                        | <b>July - September, 2024</b>   | <b>1,950.75</b>             | <b>1,056.17</b> | <b>703.53</b>   | <b>3,710.45</b>  |
| Quarter -III                                                                                                                                    | October, 2024                   | 1,148.34                    | 754.37          | 376.64          | 2,279.35         |
|                                                                                                                                                 | November, 2024                  | 151.60                      | 295.16          | 543.88          | 990.64           |
|                                                                                                                                                 | December, 2024                  | 407.79                      | 787.02          | 358.63          | 1,553.44         |
| <b>Total Quarter -III</b>                                                                                                                       | <b>October - December, 2024</b> | <b>1,707.73</b>             | <b>1,836.55</b> | <b>1,279.15</b> | <b>4,823.43</b>  |
| <b>Total April, 2024 – December, 2024</b>                                                                                                       |                                 | <b>6,766.95</b>             | <b>5,982.17</b> | <b>4,241.75</b> | <b>16,990.87</b> |

### Top Five Entities (Buyers and Sellers) in short term transactions under Bilateral (GNA & t-GNA) in December, 2024

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

| Entity Name               | Direct  |         | Entity Name               | Through Traders |         |
|---------------------------|---------|---------|---------------------------|-----------------|---------|
|                           | (MU)    | Percent |                           | (MU)            | Percent |
| MPPMCL                    | 950.54  | 36.97%  | RUVNL                     | 818.84          | 28.60%  |
| JK_LADAKH                 | 435.73  | 16.95%  | HP                        | 397.82          | 13.90%  |
| CR_IR_MS                  | 156.24  | 6.08%   | KSEB                      | 277.96          | 9.71%   |
| UTTARAKHAND               | 143.10  | 5.57%   | Tamil Nadu                | 237.78          | 8.31%   |
| MPSEB_Beneficiary         | 139.86  | 5.44%   | UTTARAKHAND               | 157.12          | 5.49%   |
| Total Volume              | 1825.47 | 71.01%  | Total Volume              | 1889.52         | 66.00%  |
| Total Volume in Bilateral | 2570.82 |         | Total Volume in Bilateral | 2862.88         |         |

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

| Entity Name               | Direct  |         | Entity Name               | Through Traders |         |
|---------------------------|---------|---------|---------------------------|-----------------|---------|
|                           | (MU)    | Percent |                           | (MU)            | Percent |
| UPPCL                     | 696.37  | 27.09%  | SKS_Raigarh               | 247.82          | 8.66%   |
| PUNJAB                    | 303.85  | 11.82%  | JPL2                      | 230.75          | 8.06%   |
| JITPL                     | 173.99  | 6.77%   | JPNIGRIE_JNSTPP           | 210.97          | 7.37%   |
| DHARIWAL_STU_MH           | 156.24  | 6.08%   | PUNJAB                    | 172.67          | 6.03%   |
| RKM_POWER                 | 152.54  | 5.93%   | APL_Raipur_TPP            | 143.64          | 5.02%   |
| Total Volume              | 1482.99 | 57.69%  | Total Volume              | 1005.85         | 36.45%  |
| Total Volume in Bilateral | 2570.82 |         | Total Volume in Bilateral | 2862.88         |         |

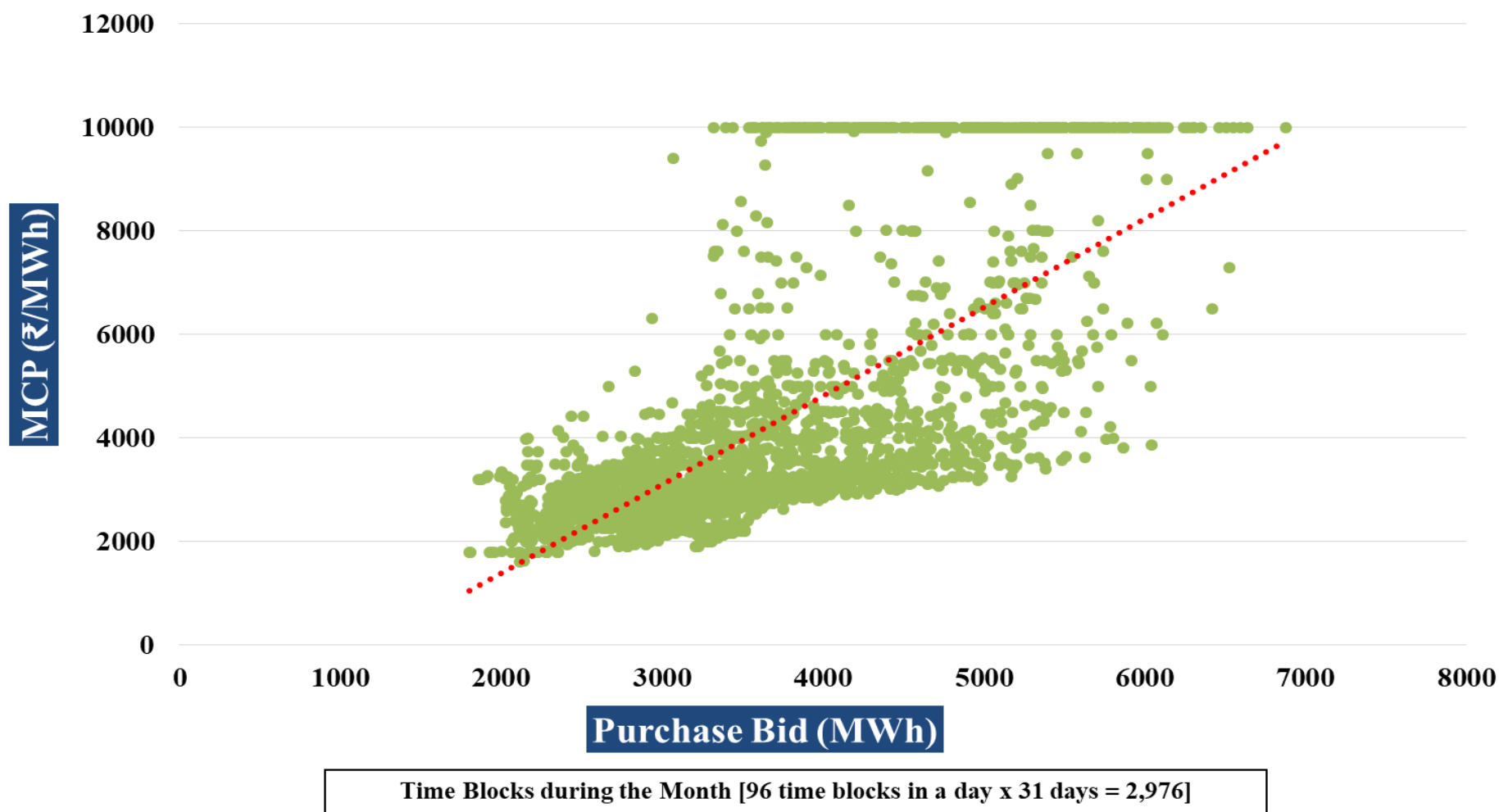
**Evening, Day, Night, Morning, Maximum, Minimum, Wt. Avg. MCP (₹/kWh) and Final Scheduled Volume (MU) under DAM**

| 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) |
|----------------|------------------------------|--------------------------|-------------------------------|------------------------------------------|----------------|----------------|-----------------|--------------------------------|
| 01-12-2024     | 4.07                         | 2.39                     | 3.61                          | 2.44                                     | 7.00           | 1.80           | 3.04            | 173.10                         |
| 02-12-2024     | 4.29                         | 2.83                     | 4.51                          | 2.38                                     | 10.00          | 2.00           | 3.56            | 177.66                         |
| 03-12-2024     | 4.01                         | 2.73                     | 4.28                          | 2.27                                     | 10.00          | 2.00           | 3.37            | 178.67                         |
| 04-12-2024     | 4.08                         | 2.45                     | 4.27                          | 1.88                                     | 10.00          | 1.61           | 3.17            | 200.47                         |
| 05-12-2024     | 4.84                         | 3.22                     | 5.00                          | 2.68                                     | 10.00          | 2.50           | 3.95            | 191.07                         |
| 06-12-2024     | 6.03                         | 3.19                     | 5.31                          | 2.72                                     | 10.00          | 2.25           | 4.19            | 197.88                         |
| 07-12-2024     | 5.38                         | 2.71                     | 4.22                          | 2.76                                     | 10.00          | 2.06           | 3.53            | 178.42                         |
| 08-12-2024     | 3.92                         | 2.55                     | 3.33                          | 2.66                                     | 5.00           | 2.00           | 3.02            | 182.81                         |
| 09-12-2024     | 4.08                         | 2.73                     | 4.85                          | 2.44                                     | 10.00          | 2.12           | 3.52            | 197.83                         |
| 10-12-2024     | 4.33                         | 2.86                     | 4.77                          | 2.41                                     | 10.00          | 2.22           | 3.59            | 213.42                         |
| 11-12-2024     | 5.34                         | 2.99                     | 5.00                          | 2.53                                     | 10.00          | 2.33           | 3.91            | 211.52                         |
| 12-12-2024     | 5.63                         | 3.00                     | 4.83                          | 2.56                                     | 10.00          | 2.33           | 3.89            | 222.66                         |
| 13-12-2024     | 5.46                         | 3.13                     | 4.77                          | 2.49                                     | 10.00          | 2.33           | 3.87            | 222.26                         |
| 14-12-2024     | 4.53                         | 2.83                     | 4.61                          | 2.36                                     | 10.00          | 2.17           | 3.45            | 220.06                         |
| 15-12-2024     | 3.98                         | 2.55                     | 3.20                          | 2.37                                     | 4.96           | 1.99           | 2.93            | 222.83                         |
| 16-12-2024     | 5.87                         | 3.02                     | 4.96                          | 2.43                                     | 10.00          | 2.15           | 3.92            | 227.62                         |
| 17-12-2024     | 6.64                         | 3.16                     | 4.76                          | 2.38                                     | 10.00          | 2.21           | 3.99            | 233.44                         |
| 18-12-2024     | 8.11                         | 3.52                     | 5.70                          | 2.50                                     | 10.00          | 2.26           | 4.55            | 225.68                         |
| 19-12-2024     | 9.00                         | 3.56                     | 5.73                          | 2.32                                     | 10.00          | 2.13           | 4.70            | 213.81                         |
| 20-12-2024     | 9.19                         | 3.13                     | 5.12                          | 2.35                                     | 10.00          | 2.17           | 4.49            | 220.63                         |
| 21-12-2024     | 9.23                         | 3.12                     | 5.15                          | 2.41                                     | 10.00          | 2.12           | 4.45            | 226.31                         |
| 22-12-2024     | 5.67                         | 3.01                     | 3.44                          | 2.33                                     | 7.60           | 2.12           | 3.34            | 256.03                         |
| 23-12-2024     | 9.17                         | 3.57                     | 4.97                          | 2.27                                     | 10.00          | 1.91           | 4.49            | 255.57                         |
| 24-12-2024     | 9.88                         | 3.51                     | 5.18                          | 2.49                                     | 10.00          | 2.20           | 4.74            | 243.70                         |
| 25-12-2024     | 8.19                         | 3.48                     | 4.47                          | 2.41                                     | 10.00          | 2.16           | 4.29            | 254.28                         |
| 26-12-2024     | 9.09                         | 3.74                     | 4.96                          | 2.21                                     | 10.00          | 2.00           | 4.54            | 217.01                         |
| 27-12-2024     | 8.67                         | 3.73                     | 4.71                          | 2.19                                     | 10.00          | 1.93           | 4.47            | 231.32                         |
| 28-12-2024     | 5.93                         | 3.22                     | 4.42                          | 2.13                                     | 10.00          | 1.90           | 3.66            | 224.91                         |
| 29-12-2024     | 3.97                         | 2.82                     | 3.28                          | 2.17                                     | 4.43           | 1.94           | 2.93            | 189.40                         |
| 30-12-2024     | 8.88                         | 3.62                     | 5.45                          | 2.49                                     | 10.00          | 2.12           | 4.66            | 223.03                         |
| 31-12-2024     | 8.89                         | 3.35                     | 5.32                          | 2.39                                     | 10.00          | 2.20           | 4.52            | 209.71                         |
| <b>Maximum</b> | <b>9.88</b>                  | <b>3.74</b>              | <b>5.73</b>                   | <b>2.76</b>                              | <b>10.00</b>   | <b>2.50</b>    | <b>4.74</b>     | <b>256.03</b>                  |
| <b>Minimum</b> | <b>3.92</b>                  | <b>2.39</b>              | <b>3.20</b>                   | <b>1.88</b>                              | <b>4.43</b>    | <b>1.61</b>    | <b>2.93</b>     | <b>173.10</b>                  |
| <b>Average</b> | <b>6.33</b>                  | <b>3.09</b>              | <b>4.65</b>                   | <b>2.40</b>                              | <b>9.32</b>    | <b>2.10</b>    | <b>3.89</b>     | <b>214.29</b>                  |

MCP: Market Clearing Price (₹/kWh)

FSV: Final Scheduled Volume (MU)

## Comparison of MCP w.r.t. Purchase Bid for 2,976 Time Blocks during the month of December, 2024 under DAM



**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 |
| 01-12-2024 | 15:45 - 16:00 | 2.53  | 18:15 - 18:30    | 7.00  | 20:45 - 21:00 | 1.30  | 13:15 - 13:30    | 1.80  |
| 02-12-2024 | 16:45 - 17:00 | 2.94  | 17:00 - 17:15    | 10.00 | 20:30 - 20:45 | 1.38  | 13:15 - 13:30    | 2.00  |
| 03-12-2024 | 15:45 - 16:00 | 2.60  | 17:15 - 17:30    | 10.00 | 19:45 - 20:00 | 1.50  | 13:15 - 13:30    | 2.00  |
| 04-12-2024 | 15:45 - 16:00 | 3.01  | 18:00 - 18:15    | 10.00 | 20:30 - 20:45 | 1.54  | 02:15 - 02:30    | 1.61  |
| 05-12-2024 | 15:45 - 16:00 | 2.95  | 17:15 - 17:30    | 10.00 | 20:45 - 21:00 | 1.42  | 02:15 - 02:30    | 2.50  |
| 06-12-2024 | 16:15 - 16:30 | 2.81  | 17:00 - 17:15    | 10.00 | 20:45 - 21:00 | 1.60  | 13:00 - 13:15    | 2.25  |
| 07-12-2024 | 06:30 - 06:45 | 2.70  | 18:00 - 18:15    | 10.00 | 17:30 - 17:45 | 0.93  | 13:00 - 13:15    | 2.06  |
| 08-12-2024 | 06:45 - 07:00 | 2.44  | 18:15 - 18:30    | 5.00  | 20:00 - 20:15 | 1.43  | 13:15 - 13:30    | 2.00  |
| 09-12-2024 | 07:15 - 07:30 | 2.64  | 18:00 - 18:15    | 10.00 | 20:30 - 20:45 | 1.50  | 13:00 - 13:15    | 2.12  |
| 10-12-2024 | 06:45 - 07:00 | 2.66  | 17:45 - 18:00    | 10.00 | 20:30 - 20:45 | 1.59  | 02:45 - 03:00    | 2.22  |
| 11-12-2024 | 06:45 - 07:00 | 2.56  | 17:00 - 17:15    | 10.00 | 20:30 - 20:45 | 1.41  | 02:45 - 03:00    | 2.33  |
| 12-12-2024 | 08:15 - 08:30 | 2.76  | 17:15 - 17:30    | 10.00 | 20:45 - 21:00 | 1.63  | 02:45 - 03:00    | 2.33  |
| 13-12-2024 | 16:15 - 16:30 | 2.94  | 17:15 - 17:30    | 10.00 | 20:45 - 21:00 | 1.62  | 03:45 - 04:00    | 2.33  |
| 14-12-2024 | 15:30 - 15:45 | 3.02  | 18:00 - 18:15    | 10.00 | 20:30 - 20:45 | 1.61  | 02:45 - 03:00    | 2.17  |
| 15-12-2024 | 15:45 - 16:00 | 3.25  | 18:15 - 18:30    | 4.96  | 20:45 - 21:00 | 1.57  | 13:30 - 13:45    | 1.99  |
| 16-12-2024 | 15:30 - 15:45 | 3.19  | 17:15 - 17:30    | 10.00 | 20:45 - 21:00 | 1.74  | 03:45 - 04:00    | 2.15  |
| 17-12-2024 | 14:45 - 15:00 | 3.28  | 17:15 - 17:30    | 10.00 | 20:45 - 21:00 | 1.66  | 02:00 - 02:15    | 2.21  |
| 18-12-2024 | 15:45 - 16:00 | 3.29  | 07:15 - 07:30    | 10.00 | 17:30 - 17:45 | 1.38  | 03:00 - 03:15    | 2.26  |
| 19-12-2024 | 15:30 - 15:45 | 3.24  | 06:45 - 07:00    | 10.00 | 17:15 - 17:30 | 1.27  | 02:00 - 02:15    | 2.13  |
| 20-12-2024 | 15:45 - 16:00 | 3.26  | 06:45 - 07:00    | 10.00 | 17:15 - 17:30 | 1.26  | 03:45 - 04:00    | 2.17  |
| 21-12-2024 | 09:30 - 09:45 | 3.17  | 07:00 - 07:15    | 10.00 | 17:30 - 17:45 | 1.16  | 04:15 - 04:30    | 2.12  |
| 22-12-2024 | 15:45 - 16:00 | 3.50  | 08:15 - 08:30    | 7.60  | 19:15 - 19:30 | 1.67  | 04:30 - 04:45    | 2.12  |
| 23-12-2024 | 15:45 - 16:00 | 4.07  | 07:15 - 07:30    | 10.00 | 17:30 - 17:45 | 1.27  | 04:15 - 04:30    | 1.91  |
| 24-12-2024 | 16:00 - 16:15 | 3.66  | 07:15 - 07:30    | 10.00 | 17:45 - 18:00 | 1.28  | 02:00 - 02:15    | 2.20  |
| 25-12-2024 | 15:45 - 16:00 | 3.70  | 08:15 - 08:30    | 10.00 | 19:00 - 19:15 | 1.51  | 03:30 - 03:45    | 2.16  |
| 26-12-2024 | 15:45 - 16:00 | 3.04  | 07:45 - 08:00    | 10.00 | 17:15 - 17:30 | 1.12  | 04:30 - 04:45    | 2.00  |
| 27-12-2024 | 15:45 - 16:00 | 3.66  | 08:00 - 08:15    | 10.00 | 19:00 - 19:15 | 1.35  | 04:15 - 04:30    | 1.93  |
| 28-12-2024 | 15:45 - 16:00 | 3.63  | 18:15 - 18:30    | 10.00 | 19:45 - 20:00 | 1.36  | 04:30 - 04:45    | 1.90  |
| 29-12-2024 | 16:00 - 16:15 | 2.50  | 18:15 - 18:30    | 4.43  | 17:45 - 18:00 | 1.13  | 02:45 - 03:00    | 1.94  |
| 30-12-2024 | 16:00 - 16:15 | 3.20  | 07:45 - 08:00    | 10.00 | 20:45 - 21:00 | 1.35  | 02:00 - 02:15    | 2.12  |
| 31-12-2024 | 15:45 - 16:00 | 2.82  | 07:45 - 08:00    | 10.00 | 20:45 - 21:00 | 1.24  | 03:00 - 03:15    | 2.20  |

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

| Sellers and Buyers under Day Ahead Market (DAM) in December, 2024 |                          |        |             |                            |          |             |
|-------------------------------------------------------------------|--------------------------|--------|-------------|----------------------------|----------|-------------|
| S. No.                                                            | Entity Name              | Sell   |             | Entity Name                | Purchase |             |
|                                                                   |                          | (MU)   | Percent (%) |                            | (MU)     | Percent (%) |
| 1                                                                 | Uttar Pradesh            | 653.95 | 9.84%       | Telangana                  | 2325.82  | 35.00%      |
| 2                                                                 | Chhattisgarh             | 614.26 | 9.24%       | Gujarat                    | 885.93   | 13.33%      |
| 3                                                                 | Orissa                   | 555.83 | 8.36%       | Maharashtra                | 578.40   | 8.70%       |
| 4                                                                 | Jindal Power Ltd. Stg-II | 554.83 | 8.35%       | Andhra Pradesh             | 335.38   | 5.05%       |
| 5                                                                 | Bihar                    | 469.64 | 7.07%       | Uttar Pradesh              | 274.60   | 4.13%       |
| 6                                                                 | Adani Power Limited-     | 414.92 | 6.24%       | Tamilnadu                  | 253.47   | 3.81%       |
| 7                                                                 | West Bengal              | 393.90 | 5.93%       | Madhya Pradesh             | 227.01   | 3.42%       |
| 8                                                                 | Jindal Power             | 232.80 | 3.50%       | Rajasthan                  | 219.19   | 3.30%       |
| 9                                                                 | Adani Power Limited -    | 220.76 | 3.32%       | J&K                        | 215.24   | 3.24%       |
| 10                                                                | Haryana                  | 201.02 | 3.02%       | Druk Green Power           | 214.55   | 3.23%       |
| 11                                                                | Jaypee Nigrie            | 179.57 | 2.70%       | Delhi                      | 185.53   | 2.79%       |
| 12                                                                | Assam                    | 147.08 | 2.21%       | Punjab                     | 153.91   | 2.32%       |
| 13                                                                | MAHAN ENERGEN            | 122.70 | 1.85%       | Uttarakhand                | 116.42   | 1.75%       |
| 14                                                                | JITPL                    | 105.51 | 1.59%       | Karnataka                  | 113.46   | 1.71%       |
| 15                                                                | Jindal Steel             | 97.59  | 1.47%       | Kerala                     | 102.26   | 1.54%       |
| 16                                                                | Madhya Pradesh           | 91.42  | 1.38%       | ArcelorMittal Nippon steel | 101.28   | 1.52%       |
| 17                                                                | IND BARATH               | 90.64  | 1.36%       | Meghalaya                  | 55.94    | 0.84%       |
| 18                                                                | Sembcorp Energy India    | 88.09  | 1.33%       | Orissa                     | 44.55    | 0.67%       |
| 19                                                                | Karnataka                | 55.98  | 0.84%       | Daman & Diu - Dadra &      | 41.22    | 0.62%       |
| 20                                                                | Nabinagar Power          | 51.95  | 0.78%       | Himachal Pradesh           | 36.45    | 0.55%       |
| 21                                                                | MAHAN ENERGEN            | 51.71  | 0.78%       | NVVN (SNA) - NEA           | 35.97    | 0.54%       |
| 22                                                                | ADANI RENEWABLE          | 48.73  | 0.73%       | West Bengal                | 33.21    | 0.50%       |
| 23                                                                | Delhi                    | 42.59  | 0.64%       | DVC                        | 19.28    | 0.29%       |
| 24                                                                | ACBIL                    | 40.33  | 0.61%       | Haryana                    | 18.36    | 0.28%       |
| 25                                                                | Tamilnadu                | 37.73  | 0.57%       | SKS Power                  | 16.34    | 0.25%       |
| 26                                                                | BALCO 2                  | 36.27  | 0.55%       | Railways                   | 8.32     | 0.13%       |
| 27                                                                | Jhabua Power             | 35.50  | 0.53%       | Jharkhand                  | 7.94     | 0.12%       |
| 28                                                                | ADANI WIND               | 35.34  | 0.53%       | NEA-NR                     | 7.22     | 0.11%       |
| 29                                                                | Maharashtra              | 33.20  | 0.50%       | MB Power                   | 5.26     | 0.08%       |
| 30                                                                | Adani Green Energy       | 28.51  | 0.43%       | Nagaland                   | 4.91     | 0.07%       |
| 31                                                                | Barh Stg-2               | 27.59  | 0.42%       | Chandigarh                 | 4.34     | 0.07%       |
| 32                                                                | Rajasthan                | 26.67  | 0.40%       | Sikkim                     | 1.30     | 0.02%       |
| 33                                                                | Farakka                  | 26.35  | 0.40%       | Goa SR                     | 0.57     | 0.01%       |
| 34                                                                | Andhra Pradesh           | 25.43  | 0.38%       | Goa WR                     | 0.45     | 0.01%       |
| 35                                                                | ADANI RENEWABLE          | 24.85  | 0.37%       | Bihar                      | 0.43     | 0.01%       |
| 36                                                                | Chandigarh               | 24.71  | 0.37%       | Tripura                    | 0.35     | 0.01%       |
| 37                                                                | Goa WR                   | 23.73  | 0.36%       | Manipur                    | 0.23     | 0.003%      |
| 38                                                                | DVC                      | 23.42  | 0.35%       | Mizoram                    | 0.08     | 0.001%      |
| 39                                                                | Gujarat                  | 22.56  | 0.34%       | Pondicherry                | 0.04     | 0.001%      |
| 40                                                                | Government of            | 22.22  | 0.33%       | Chhattisgarh               | 0.03     | 0.0004%     |
| 41                                                                | RENEW SURYA              | 21.91  | 0.33%       |                            |          |             |
| 42                                                                | DB Power                 | 21.60  | 0.33%       |                            |          |             |
| 43                                                                | Himachal Pradesh         | 19.55  | 0.29%       |                            |          |             |
| 44                                                                | ADANI SOLAR              | 18.78  | 0.28%       |                            |          |             |
| 45                                                                | Sembcorp Gayatri         | 18.15  | 0.27%       |                            |          |             |
| 46                                                                | Barh STPS Stg - I        | 17.42  | 0.26%       |                            |          |             |
| 47                                                                | Karcham Wangtoo          | 16.91  | 0.25%       |                            |          |             |
| 48                                                                | Palatana                 | 16.91  | 0.25%       |                            |          |             |
| 49                                                                | ADANI SOLAR              | 16.83  | 0.25%       |                            |          |             |
| 50                                                                | Costal Energen           | 16.10  | 0.24%       |                            |          |             |
| 51                                                                | RKM Power                | 15.22  | 0.23%       |                            |          |             |
| 52                                                                | ADANI GREEN              | 14.95  | 0.22%       |                            |          |             |
| 53                                                                | AD Hydro                 | 14.70  | 0.22%       |                            |          |             |

|     |                       |       |       |  |  |  |
|-----|-----------------------|-------|-------|--|--|--|
| 54  | Adani Green Energy    | 13.87 | 0.21% |  |  |  |
| 55  | Uttarakhand           | 12.98 | 0.20% |  |  |  |
| 56  | Dadri TPS             | 12.72 | 0.19% |  |  |  |
| 57  | ADANI RENEWABLE       | 11.58 | 0.17% |  |  |  |
| 58  | Adani Green Energy    | 11.51 | 0.17% |  |  |  |
| 59  | ADANI RENEWABLE       | 11.45 | 0.17% |  |  |  |
| 60  | Simhapuri Energy      | 11.39 | 0.17% |  |  |  |
| 61  | Sipat Stg-1           | 11.35 | 0.17% |  |  |  |
| 62  | NTPP BRBCL            | 10.66 | 0.16% |  |  |  |
| 63  | IGSTPS JHAJJAR        | 10.59 | 0.16% |  |  |  |
| 64  | Adept Renewable       | 10.25 | 0.15% |  |  |  |
| 65  | Jharkhand             | 9.62  | 0.14% |  |  |  |
| 66  | Dadri Stg-2           | 9.53  | 0.14% |  |  |  |
| 67  | Dikchu                | 9.49  | 0.14% |  |  |  |
| 68  | Amp Energy Green Six  | 9.38  | 0.14% |  |  |  |
| 69  | Government of         | 9.10  | 0.14% |  |  |  |
| 70  | Renew Surya Ravi      | 8.92  | 0.13% |  |  |  |
| 71  | Korba                 | 7.52  | 0.11% |  |  |  |
| 72  | TRN Energy            | 7.19  | 0.11% |  |  |  |
| 73  | Adani Green Energy    | 7.01  | 0.11% |  |  |  |
| 74  | Talcher               | 6.70  | 0.10% |  |  |  |
| 75  | Farakka Stg 3         | 6.65  | 0.10% |  |  |  |
| 76  | Government of         | 6.62  | 0.10% |  |  |  |
| 77  | Meghalaya             | 6.39  | 0.10% |  |  |  |
| 78  | ADANI GREEN           | 6.33  | 0.10% |  |  |  |
| 79  | Vindhyachal stg-1     | 6.07  | 0.09% |  |  |  |
| 80  | J&K                   | 5.93  | 0.09% |  |  |  |
| 81  | Adani Green Energy    | 5.79  | 0.09% |  |  |  |
| 82  | Telangana             | 5.65  | 0.09% |  |  |  |
| 83  | ADANI RENEWABLE       | 5.64  | 0.08% |  |  |  |
| 84  | Adani Green Energy    | 5.50  | 0.08% |  |  |  |
| 85  | ADANI GREEN           | 5.48  | 0.08% |  |  |  |
| 86  | Shree Cement          | 5.18  | 0.08% |  |  |  |
| 87  | Vindhyachal stg-3     | 5.15  | 0.08% |  |  |  |
| 88  | Vindhyachal stg-4     | 5.05  | 0.08% |  |  |  |
| 89  | SKS Power             | 4.75  | 0.07% |  |  |  |
| 90  | Sipat Stg-2           | 4.67  | 0.07% |  |  |  |
| 91  | Kerala                | 4.45  | 0.07% |  |  |  |
| 92  | KBUNL(MTPS-II)        | 4.43  | 0.07% |  |  |  |
| 93  | Government of         | 4.26  | 0.06% |  |  |  |
| 94  | Khargone STPP         | 4.26  | 0.06% |  |  |  |
| 95  | JUNIPER GREEN         | 4.12  | 0.06% |  |  |  |
| 96  | Adani Green Energy    | 4.08  | 0.06% |  |  |  |
| 97  | Singoli Bhagwati      | 4.05  | 0.06% |  |  |  |
| 98  | The Tata Power Co Ltd | 4.00  | 0.06% |  |  |  |
| 99  | NTPC Sholapur         | 3.97  | 0.06% |  |  |  |
| 100 | Sainj HEP             | 3.88  | 0.06% |  |  |  |
| 101 | GMR Warora            | 3.86  | 0.06% |  |  |  |
| 102 | NTPC Lara             | 3.80  | 0.06% |  |  |  |
| 103 | Maruti Clean Coal     | 3.79  | 0.06% |  |  |  |
| 104 | MB Power              | 3.50  | 0.05% |  |  |  |
| 105 | WIND FIVE             | 3.25  | 0.05% |  |  |  |
| 106 | ADANI RENEWABLE       | 3.24  | 0.05% |  |  |  |
| 107 | Kameng HEP            | 3.15  | 0.05% |  |  |  |
| 108 | Government of         | 3.14  | 0.05% |  |  |  |
| 109 | NVVN (SNA) - NEA      | 3.00  | 0.05% |  |  |  |
| 110 | Nagaland              | 2.85  | 0.04% |  |  |  |
| 111 | TPSL 200MW TPTCL      | 2.72  | 0.04% |  |  |  |
| 112 | Vindhyachal stg-2     | 2.65  | 0.04% |  |  |  |

|     |                       |      |         |  |  |  |
|-----|-----------------------|------|---------|--|--|--|
| 113 | Korba Stg 3           | 2.61 | 0.04%   |  |  |  |
| 114 | Government of         | 2.55 | 0.04%   |  |  |  |
| 115 | Adani Green Energy    | 2.32 | 0.03%   |  |  |  |
| 116 | AMBUJA CEMENTS        | 2.17 | 0.03%   |  |  |  |
| 117 | Punjab                | 2.09 | 0.03%   |  |  |  |
| 118 | RENEW SURYA           | 2.04 | 0.03%   |  |  |  |
| 119 | Kahalgaon             | 1.97 | 0.03%   |  |  |  |
| 120 | Government of         | 1.94 | 0.03%   |  |  |  |
| 121 | Adani Renewable       | 1.86 | 0.03%   |  |  |  |
| 122 | Mizoram               | 1.84 | 0.03%   |  |  |  |
| 123 | IL&FS                 | 1.63 | 0.02%   |  |  |  |
| 124 | NTPC Gadarwara        | 1.53 | 0.02%   |  |  |  |
| 125 | Kahalgaon-II          | 1.47 | 0.02%   |  |  |  |
| 126 | Vindhyachal stg-5     | 1.46 | 0.02%   |  |  |  |
| 127 | AMBUJA CEMENTS        | 1.42 | 0.02%   |  |  |  |
| 128 | Sorang HEP, (Himachal | 1.42 | 0.02%   |  |  |  |
| 129 | Tripura               | 1.38 | 0.02%   |  |  |  |
| 130 | GMR Kamalanga         | 1.37 | 0.02%   |  |  |  |
| 131 | Transition Energy     | 1.29 | 0.02%   |  |  |  |
| 132 | Adani Green Energy    | 1.16 | 0.02%   |  |  |  |
| 133 | Unchahar-I            | 1.07 | 0.02%   |  |  |  |
| 134 | Pondicherry           | 1.04 | 0.02%   |  |  |  |
| 135 | Government of         | 1.04 | 0.02%   |  |  |  |
| 136 | NTPC North Karanpura  | 1.00 | 0.02%   |  |  |  |
| 137 | Unchahar-IV           | 0.96 | 0.01%   |  |  |  |
| 138 | ADANI WIND            | 0.92 | 0.01%   |  |  |  |
| 139 | Lanco Budhil          | 0.92 | 0.01%   |  |  |  |
| 140 | NTPC Kudgi            | 0.83 | 0.01%   |  |  |  |
| 141 | Singrauli             | 0.69 | 0.01%   |  |  |  |
| 142 | Dhariwal ISTS         | 0.68 | 0.01%   |  |  |  |
| 143 | Bongaigaon            | 0.62 | 0.01%   |  |  |  |
| 144 | Ostro Kannada Power   | 0.62 | 0.01%   |  |  |  |
| 145 | TPSL Banderwala       | 0.55 | 0.01%   |  |  |  |
| 146 | Tanda Stg-2           | 0.52 | 0.01%   |  |  |  |
| 147 | Unchahar-III          | 0.48 | 0.01%   |  |  |  |
| 148 | Darlipalli            | 0.43 | 0.01%   |  |  |  |
| 149 | Mouda Stg-2           | 0.41 | 0.01%   |  |  |  |
| 150 | AMP Energy Green      | 0.35 | 0.01%   |  |  |  |
| 151 | Adani Renewable       | 0.35 | 0.01%   |  |  |  |
| 152 | Unchahar-II           | 0.32 | 0.005%  |  |  |  |
| 153 | ADANI GREEN           | 0.31 | 0.005%  |  |  |  |
| 154 | Ramagundam Floating   | 0.31 | 0.005%  |  |  |  |
| 155 | ADANI RENEWABLE       | 0.29 | 0.004%  |  |  |  |
| 156 | Mouda Stg-1           | 0.28 | 0.004%  |  |  |  |
| 157 | Simhadri FSP 15 MW    | 0.20 | 0.003%  |  |  |  |
| 158 | Simhadri Stg-2        | 0.20 | 0.003%  |  |  |  |
| 159 | NTPC SOLAPUR          | 0.17 | 0.003%  |  |  |  |
| 160 | Sikkim                | 0.17 | 0.003%  |  |  |  |
| 161 | DHARIWAL STU          | 0.15 | 0.002%  |  |  |  |
| 162 | ADANI GREEN           | 0.14 | 0.002%  |  |  |  |
| 163 | ADANI RENEWABLE       | 0.13 | 0.002%  |  |  |  |
| 164 | NTPC Simhadri 25      | 0.13 | 0.002%  |  |  |  |
| 165 | Neyveli New Thermal   | 0.11 | 0.002%  |  |  |  |
| 166 | ADANI RENEWABLE       | 0.08 | 0.001%  |  |  |  |
| 167 | Serentica Renewables  | 0.06 | 0.001%  |  |  |  |
| 168 | ADANI RENEWABLE       | 0.04 | 0.001%  |  |  |  |
| 169 | Rihand-II             | 0.02 | 0.0003% |  |  |  |
| 170 | Rihand-III            | 0.02 | 0.0003% |  |  |  |
| 171 | Rihand-I              | 0.02 | 0.0002% |  |  |  |

|                               |                  |                 |               |                               |                 |               |
|-------------------------------|------------------|-----------------|---------------|-------------------------------|-----------------|---------------|
| 172                           | NTPL             | 0.02            | 0.0002%       |                               |                 |               |
| 173                           | Ramagundam Stg-1 | 0.01            | 0.0002%       |                               |                 |               |
| 174                           | NLC              | 0.003           | 0.0001%       |                               |                 |               |
| 175                           | NLC TPS-II Stg-2 | 0.001           | 0.00001%      |                               |                 |               |
| 176                           | NTECL Vallur     | 0.001           | 0.00001%      |                               |                 |               |
| 177                           | Talcher Stg-2    | 0.0005          | 0.00001%      |                               |                 |               |
| <b>Total Volume of top 10</b> |                  | <b>4,311.90</b> | <b>64.89%</b> | <b>Total Volume of top 10</b> | <b>5,529.59</b> | <b>83.21%</b> |
| <b>Total Volume in PXs</b>    |                  | <b>6,645.20</b> |               | <b>Total Volume in PXs</b>    | <b>6,645.20</b> |               |

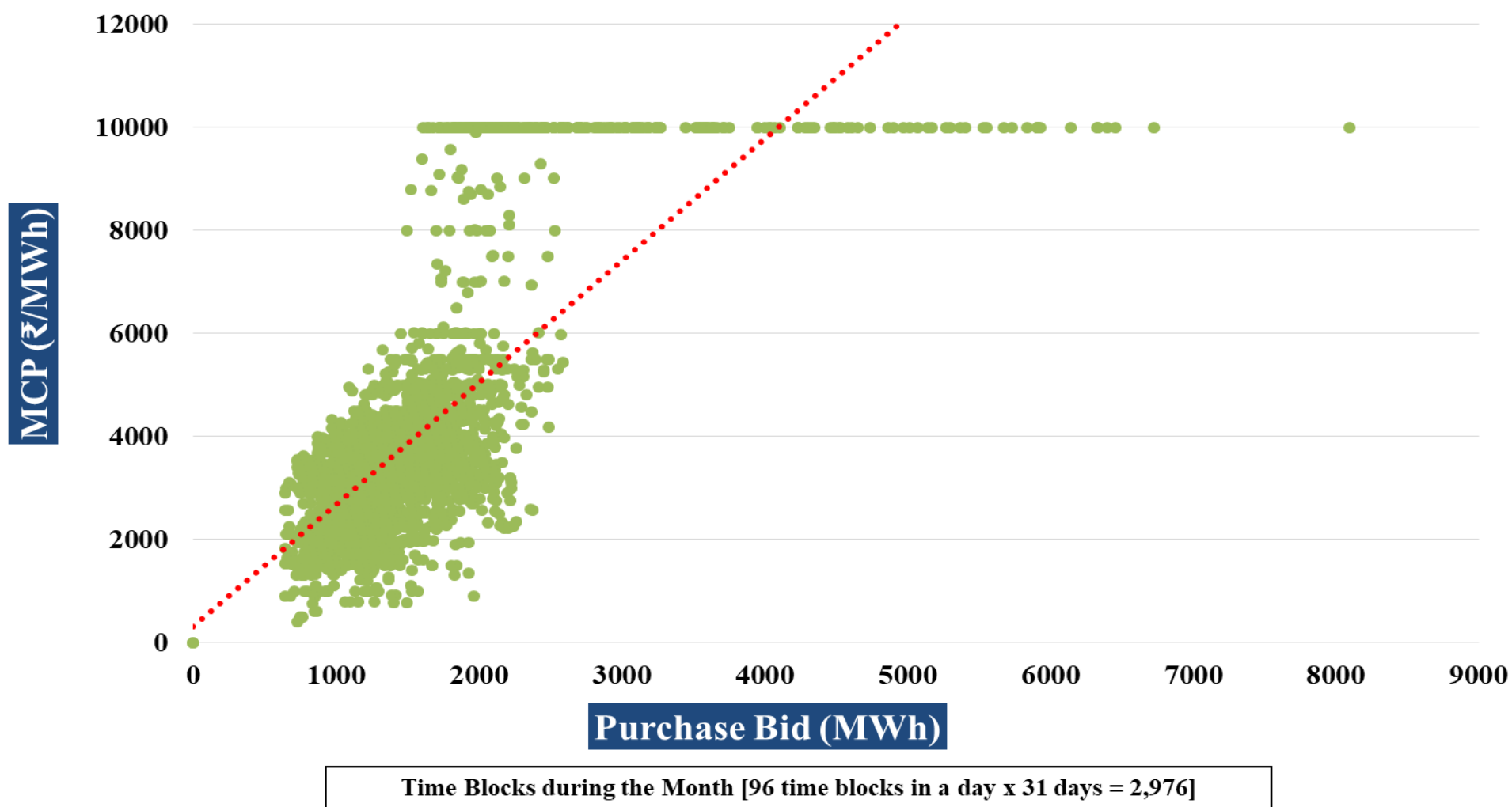
**Annexure-VIII****Evening, Day, Night, Morning, Maximum, Minimum, Wt. Avg. MCP (₹/kWh) and Final Scheduled Volume (MU) under RTM**

| 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) |
|------------|------------------------------|--------------------------|-------------------------------|------------------------------------------|----------------|----------------|-----------------|--------------------------------|
| 01-12-2024 | 3.43                         | 3.03                     | 2.75                          | 1.87                                     | 4.01           | 1.00           | 2.70            | 132.93                         |
| 02-12-2024 | 4.14                         | 2.81                     | 3.25                          | 1.26                                     | 6.00           | 0.40           | 2.69            | 114.17                         |
| 03-12-2024 | 4.63                         | 3.26                     | 4.11                          | 2.03                                     | 10.00          | 1.40           | 3.30            | 115.82                         |
| 04-12-2024 | 4.72                         | 3.35                     | 4.60                          | 2.53                                     | 10.00          | 1.50           | 3.70            | 113.67                         |
| 05-12-2024 | 6.23                         | 3.52                     | 5.50                          | 2.97                                     | 10.00          | 0.00           | 4.30            | 111.76                         |
| 06-12-2024 | 7.43                         | 4.00                     | 5.69                          | 3.25                                     | 10.00          | 2.20           | 4.87            | 103.51                         |
| 07-12-2024 | 4.86                         | 3.30                     | 4.67                          | 3.13                                     | 10.00          | 2.25           | 3.90            | 109.68                         |
| 08-12-2024 | 3.72                         | 2.52                     | 3.05                          | 2.83                                     | 4.35           | 1.40           | 3.03            | 100.63                         |
| 09-12-2024 | 4.01                         | 3.45                     | 4.30                          | 1.99                                     | 8.00           | 1.43           | 3.35            | 101.88                         |
| 10-12-2024 | 4.60                         | 3.83                     | 5.17                          | 2.31                                     | 10.00          | 1.59           | 4.03            | 95.01                          |
| 11-12-2024 | 4.81                         | 3.25                     | 4.94                          | 2.36                                     | 10.00          | 1.61           | 3.69            | 90.43                          |
| 12-12-2024 | 6.97                         | 3.59                     | 4.57                          | 2.39                                     | 10.00          | 1.98           | 4.02            | 99.02                          |
| 13-12-2024 | 4.28                         | 2.99                     | 4.26                          | 1.76                                     | 10.00          | 1.00           | 3.20            | 93.40                          |
| 14-12-2024 | 4.13                         | 3.44                     | 5.17                          | 2.59                                     | 10.00          | 2.05           | 3.92            | 98.40                          |
| 15-12-2024 | 4.15                         | 2.53                     | 3.29                          | 2.68                                     | 4.91           | 0.90           | 3.06            | 120.19                         |
| 16-12-2024 | 7.59                         | 3.73                     | 5.60                          | 2.12                                     | 10.00          | 1.52           | 4.39            | 89.80                          |
| 17-12-2024 | 8.61                         | 3.69                     | 5.19                          | 2.29                                     | 10.00          | 1.66           | 4.52            | 88.09                          |
| 18-12-2024 | 8.77                         | 4.14                     | 6.19                          | 2.33                                     | 10.00          | 1.66           | 4.88            | 81.34                          |
| 19-12-2024 | 9.12                         | 4.17                     | 5.78                          | 2.70                                     | 10.00          | 2.00           | 5.01            | 95.33                          |
| 20-12-2024 | 6.91                         | 4.40                     | 4.89                          | 2.25                                     | 10.00          | 1.97           | 4.38            | 102.60                         |
| 21-12-2024 | 6.56                         | 3.73                     | 4.98                          | 2.31                                     | 10.00          | 1.94           | 4.21            | 96.22                          |
| 22-12-2024 | 4.31                         | 3.75                     | 3.36                          | 2.46                                     | 5.00           | 1.66           | 3.46            | 104.52                         |
| 23-12-2024 | 8.59                         | 4.85                     | 5.76                          | 2.36                                     | 10.00          | 2.10           | 4.97            | 86.68                          |
| 24-12-2024 | 8.99                         | 3.83                     | 5.09                          | 2.18                                     | 10.00          | 1.57           | 4.73            | 86.99                          |
| 25-12-2024 | 5.79                         | 4.28                     | 4.18                          | 1.81                                     | 10.00          | 0.99           | 3.97            | 86.28                          |
| 26-12-2024 | 8.28                         | 4.25                     | 4.16                          | 2.23                                     | 10.00          | 1.74           | 4.52            | 94.44                          |
| 27-12-2024 | 4.52                         | 3.15                     | 2.96                          | 2.01                                     | 6.00           | 1.10           | 3.05            | 93.23                          |
| 28-12-2024 | 3.16                         | 2.29                     | 3.50                          | 1.52                                     | 5.06           | 0.78           | 2.52            | 130.36                         |
| 29-12-2024 | 3.94                         | 2.62                     | 3.74                          | 2.61                                     | 5.30           | 1.10           | 3.08            | 132.32                         |
| 30-12-2024 | 5.81                         | 3.16                     | 5.72                          | 2.21                                     | 10.00          | 1.52           | 4.04            | 109.15                         |
| 31-12-2024 | 4.69                         | 3.15                     | 5.59                          | 2.56                                     | 10.00          | 2.16           | 3.86            | 102.19                         |
| Maximum    | 9.12                         | 4.85                     | 6.19                          | 3.25                                     | 10.00          | 2.25           | 5.01            | 132.93                         |
| Minimum    | 3.16                         | 2.29                     | 2.75                          | 1.26                                     | 4.01           | 0.00           | 2.52            | 81.34                          |
| Average    | 5.73                         | 3.49                     | 4.58                          | 2.32                                     | 8.67           | 1.49           | 3.85            | 102.58                         |

MCP: Market Clearing Price (₹/kWh)

FSV: Final Scheduled Volume (MU)

## Comparison of MCP w.r.t. Purchase Bid for 2,976 Time Blocks during the month of December, 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 |
| 01-12-2024 | 13:45 - 14:00 | 2.13  | 16:45 - 17:00    | 4.01  | 20:45 - 21:00 | 0.86  | 19:00 - 19:15    | 1.00  |
| 02-12-2024 | 12:00 - 12:15 | 1.96  | 18:00 - 18:15    | 6.00  | 00:00 - 00:15 | 0.64  | 01:45 - 02:00    | 0.40  |
| 03-12-2024 | 11:15 - 11:30 | 1.91  | 18:15 - 18:30    | 10.00 | 17:45 - 18:00 | 0.66  | 10:30 - 10:45    | 1.40  |
| 04-12-2024 | 11:15 - 11:30 | 1.74  | 18:00 - 18:15    | 10.00 | 00:00 - 00:15 | 0.83  | 13:00 - 13:15    | 1.50  |
| 05-12-2024 | 09:15 - 09:30 | 1.82  | 07:15 - 07:30    | 10.00 | 20:00 - 20:15 | 0.00  | 03:00 - 03:15    | 2.35  |
| 06-12-2024 | 13:45 - 14:00 | 1.74  | 07:15 - 07:30    | 10.00 | 17:30 - 17:45 | 0.42  | 13:00 - 13:15    | 2.20  |
| 07-12-2024 | 12:15 - 12:30 | 1.80  | 18:00 - 18:15    | 10.00 | 18:00 - 18:15 | 0.66  | 13:15 - 13:30    | 2.25  |
| 08-12-2024 | 13:15 - 13:30 | 1.74  | 08:15 - 08:30    | 4.35  | 20:45 - 21:00 | 0.71  | 14:45 - 15:00    | 1.40  |
| 09-12-2024 | 16:45 - 17:00 | 1.49  | 18:15 - 18:30    | 8.00  | 22:15 - 22:30 | 0.78  | 04:00 - 04:15    | 1.43  |
| 10-12-2024 | 16:00 - 16:15 | 1.83  | 16:45 - 17:00    | 10.00 | 21:45 - 22:00 | 0.62  | 01:45 - 02:00    | 1.59  |
| 11-12-2024 | 16:30 - 16:45 | 1.33  | 18:00 - 18:15    | 10.00 | 21:30 - 21:45 | 0.64  | 02:15 - 02:30    | 1.61  |
| 12-12-2024 | 16:15 - 16:30 | 1.60  | 08:30 - 08:45    | 10.00 | 20:45 - 21:00 | 0.59  | 23:45 - 24:00    | 1.98  |
| 13-12-2024 | 15:00 - 15:15 | 1.39  | 18:00 - 18:15    | 10.00 | 20:45 - 21:00 | 0.62  | 02:15 - 02:30    | 1.00  |
| 14-12-2024 | 16:30 - 16:45 | 1.55  | 17:15 - 17:30    | 10.00 | 21:15 - 21:30 | 0.66  | 13:15 - 13:30    | 2.05  |
| 15-12-2024 | 13:45 - 14:00 | 2.21  | 18:00 - 18:15    | 4.91  | 22:00 - 22:15 | 0.80  | 12:00 - 12:15    | 0.90  |
| 16-12-2024 | 16:15 - 16:30 | 1.56  | 07:30 - 07:45    | 10.00 | 17:30 - 17:45 | 0.55  | 02:45 - 03:00    | 1.52  |
| 17-12-2024 | 10:30 - 10:45 | 1.37  | 07:30 - 07:45    | 10.00 | 18:00 - 18:15 | 0.51  | 04:00 - 04:15    | 1.66  |
| 18-12-2024 | 09:45 - 10:00 | 1.18  | 07:15 - 07:30    | 10.00 | 18:00 - 18:15 | 0.42  | 03:15 - 03:30    | 1.66  |
| 19-12-2024 | 09:00 - 09:15 | 1.34  | 06:45 - 07:00    | 10.00 | 17:15 - 17:30 | 0.55  | 13:15 - 13:30    | 2.00  |
| 20-12-2024 | 07:45 - 08:00 | 1.37  | 07:45 - 08:00    | 10.00 | 17:45 - 18:00 | 0.59  | 00:00 - 00:15    | 1.97  |
| 21-12-2024 | 10:30 - 10:45 | 1.27  | 08:00 - 08:15    | 10.00 | 21:30 - 21:45 | 0.68  | 03:30 - 03:45    | 1.94  |
| 22-12-2024 | 13:45 - 14:00 | 1.63  | 10:30 - 10:45    | 5.00  | 19:45 - 20:00 | 0.65  | 23:45 - 24:00    | 1.66  |
| 23-12-2024 | 12:00 - 12:15 | 1.35  | 07:30 - 07:45    | 10.00 | 18:00 - 18:15 | 0.48  | 01:45 - 02:00    | 2.10  |
| 24-12-2024 | 10:45 - 11:00 | 1.55  | 08:00 - 08:15    | 10.00 | 19:45 - 20:00 | 0.65  | 04:00 - 04:15    | 1.57  |
| 25-12-2024 | 10:45 - 11:00 | 1.31  | 09:00 - 09:15    | 10.00 | 19:45 - 20:00 | 0.58  | 23:45 - 24:00    | 0.99  |
| 26-12-2024 | 13:45 - 14:00 | 1.45  | 08:15 - 08:30    | 10.00 | 20:15 - 20:30 | 0.51  | 04:30 - 04:45    | 1.74  |
| 27-12-2024 | 18:30 - 18:45 | 1.54  | 09:15 - 09:30    | 6.00  | 00:15 - 00:30 | 0.65  | 23:45 - 24:00    | 1.10  |
| 28-12-2024 | 07:15 - 07:30 | 1.80  | 18:30 - 18:45    | 5.06  | 20:30 - 20:45 | 0.96  | 14:30 - 14:45    | 0.78  |
| 29-12-2024 | 16:45 - 17:00 | 1.84  | 18:15 - 18:30    | 5.30  | 20:30 - 20:45 | 0.86  | 14:30 - 14:45    | 1.10  |
| 30-12-2024 | 12:00 - 12:15 | 1.55  | 17:15 - 17:30    | 10.00 | 01:15 - 01:30 | 0.73  | 01:45 - 02:00    | 1.52  |
| 31-12-2024 | 09:15 - 09:30 | 1.52  | 17:30 - 17:45    | 10.00 | 21:15 - 21:30 | 0.73  | 02:30 - 02:45    | 2.16  |

MCP: Market Clearing Price (₹/kWh)

FSV: Final Scheduled Volume (MU)

| Sellers and Buyers under Real Time Market (RTM) in December, 2024 |                   |        |             |                                      |          |             |
|-------------------------------------------------------------------|-------------------|--------|-------------|--------------------------------------|----------|-------------|
| S. No.                                                            | Entity Name       | Sell   |             | Entity Name                          | Purchase |             |
|                                                                   |                   | (MU)   | Percent (%) |                                      | (MU)     | Percent (%) |
| 1                                                                 | Bihar             | 461.24 | 14.49%      | Telangana                            | 406.97   | 17.07%      |
| 2                                                                 | Tamilnadu         | 242.17 | 7.61%       | Punjab                               | 395.76   | 14.75%      |
| 3                                                                 | Madhya Pradesh    | 196.27 | 6.16%       | Maharashtra                          | 317.92   | 11.92%      |
| 4                                                                 | Uttar Pradesh     | 185.18 | 5.82%       | Tamilnadu                            | 263.76   | 6.19%       |
| 5                                                                 | West Bengal       | 176.08 | 5.53%       | Rajasthan                            | 233.87   | 5.93%       |
| 6                                                                 | Haryana           | 173.77 | 5.46%       | Uttar Pradesh                        | 227.82   | 5.80%       |
| 7                                                                 | Orissa            | 167.28 | 5.25%       | Andhra Pradesh                       | 184.41   | 5.62%       |
| 8                                                                 | Jharkhand         | 95.24  | 2.99%       | J&K                                  | 174.36   | 3.96%       |
| 9                                                                 | Chhattisgarh      | 90.41  | 2.84%       | Kerala                               | 116.04   | 3.89%       |
| 10                                                                | Assam             | 82.12  | 2.58%       | Gujarat                              | 94.52    | 3.08%       |
| 11                                                                | Rajasthan         | 68.21  | 2.14%       | Orissa                               | 79.64    | 2.58%       |
| 12                                                                | Delhi             | 48.13  | 1.51%       | Delhi                                | 66.33    | 2.32%       |
| 13                                                                | Karnataka         | 44.67  | 1.40%       | Karnataka                            | 54.43    | 2.07%       |
| 14                                                                | Maharashtra       | 43.27  | 1.36%       | Himachal Pradesh                     | 51.50    | 2.03%       |
| 15                                                                | KHURJA STPP       | 41.33  | 1.30%       | Assam                                | 48.45    | 1.41%       |
| 16                                                                | DVC               | 34.11  | 1.07%       | Madhya Pradesh                       | 47.55    | 1.29%       |
| 17                                                                | BALCO 2           | 32.15  | 1.01%       | West Bengal                          | 36.42    | 1.14%       |
| 18                                                                | TRN Energy        | 27.32  | 0.86%       | DVC                                  | 33.39    | 1.10%       |
| 19                                                                | ADANI WIND        | 24.57  | 0.77%       | Daman & Diu - Dadra &                | 30.45    | 1.03%       |
| 20                                                                | Jhabua Power      | 23.72  | 0.75%       | ArcelorMittal Nippon steel           | 23.67    | 0.88%       |
| 21                                                                | Renew Surya Ravi  | 23.43  | 0.74%       | NVVN (SNA) - NEA                     | 22.41    | 0.74%       |
| 22                                                                | Jindal Power Ltd. | 23.42  | 0.74%       | Uttarakhand                          | 16.33    | 0.64%       |
| 23                                                                | Singrauli         | 20.87  | 0.66%       | Adani Power Limited -                | 15.46    | 0.49%       |
| 24                                                                | MAHAN             | 19.81  | 0.62%       | Manipur                              | 12.62    | 0.45%       |
| 25                                                                | Uttarakhand       | 19.78  | 0.62%       | Meghalaya                            | 11.38    | 0.43%       |
| 26                                                                | Tripura           | 18.91  | 0.59%       | Chhattisgarh                         | 10.14    | 0.37%       |
| 27                                                                | Sembcorp Energy   | 18.84  | 0.59%       | Haryana                              | 8.26     | 0.35%       |
| 28                                                                | ACME PHALODI      | 18.27  | 0.57%       | Arunachal Pradesh                    | 8.02     | 0.28%       |
| 29                                                                | Nabinagar Power   | 18.12  | 0.57%       | Jindal Power Ltd. Stg-II             | 5.88     | 0.27%       |
| 30                                                                | Sasan UMPP        | 17.87  | 0.56%       | Druk Green Power                     | 3.81     | 0.26%       |
| 31                                                                | J&K               | 17.44  | 0.55%       | SKS Power                            | 3.15     | 0.23%       |
| 32                                                                | Adani Power       | 17.40  | 0.55%       | NEA-NR                               | 2.66     | 0.19%       |
| 33                                                                | Pondicherry       | 17.16  | 0.54%       | MAHAN ENERGEN                        | 2.04     | 0.18%       |
| 34                                                                | Gujarat           | 16.73  | 0.53%       | Simhapuri Energy Limited             | 1.61     | 0.14%       |
| 35                                                                | Rihand-III        | 16.57  | 0.52%       | Jharkhand                            | 1.28     | 0.12%       |
| 36                                                                | NTPC North        | 16.01  | 0.50%       | MB Power                             | 1.18     | 0.10%       |
| 37                                                                | ADANI             | 15.62  | 0.49%       | Tripura                              | 1.15     | 0.08%       |
| 38                                                                | Andhra Pradesh    | 14.85  | 0.47%       | IND BARATH ENERGY                    | 1.06     | 0.08%       |
| 39                                                                | The Tata Power Co | 14.28  | 0.45%       | Ratnagiri Gas & Power                | 0.97     | 0.07%       |
| 40                                                                | Telangana         | 13.48  | 0.42%       | Nagaland                             | 0.80     | 0.06%       |
| 41                                                                | Jindal Power      | 13.30  | 0.42%       | Goa WR                               | 0.77     | 0.06%       |
| 42                                                                | RENEW SURYA       | 12.59  | 0.40%       | Costal Energen                       | 0.75     | 0.05%       |
| 43                                                                | ACME RAISAR       | 12.59  | 0.40%       | Jindal Power                         | 0.74     | 0.04%       |
| 44                                                                | Kahalgaon-II      | 12.43  | 0.39%       | Bihar                                | 0.65     | 0.03%       |
| 45                                                                | Rihand-I          | 12.42  | 0.39%       | Railways                             | 0.59     | 0.03%       |
| 46                                                                | Rihand-II         | 12.35  | 0.39%       | Government of Himachal Pradesh_NJHPS | 0.45     | 0.02%       |

|    |                                 |       |       |                                                   |      |         |
|----|---------------------------------|-------|-------|---------------------------------------------------|------|---------|
| 47 | Kerala                          | 12.31 | 0.39% | Kawas                                             | 0.40 | 0.02%   |
| 48 | Farakka                         | 12.27 | 0.39% | Goa SR                                            | 0.40 | 0.02%   |
| 49 | JUNIPER GREEN<br>COSMIC PRIVATE | 11.67 | 0.37% | Government of Himachal<br>Pradesh_Koldam HEP      | 0.36 | 0.02%   |
| 50 | AGTPP                           | 11.59 | 0.36% | Gandhar                                           | 0.34 | 0.02%   |
| 51 | Darlipalli                      | 11.26 | 0.35% | Chandigarh                                        | 0.29 | 0.01%   |
| 52 | Mouda Stg-2                     | 10.20 | 0.32% | Sikkim                                            | 0.23 | 0.01%   |
| 53 | Korba                           | 10.18 | 0.32% | Government of Himachal<br>Pradesh_<br>CHAMERA2HEP | 0.23 | 0.01%   |
| 54 | Himachal Pradesh                | 9.95  | 0.31% | Government of Himachal<br>Pradesh_Parbat3HEP      | 0.18 | 0.01%   |
| 55 | Barh Stg-2                      | 8.97  | 0.28% | Pondicherry                                       | 0.18 | 0.01%   |
| 56 | Costal Energen                  | 8.77  | 0.28% | Government of Himachal<br>Pradesh_RampurHEP       | 0.14 | 0.01%   |
| 57 | Adani Power                     | 8.72  | 0.27% | Mizoram                                           | 0.11 | 0.0043% |
| 58 | SKS Power                       | 8.67  | 0.27% | Maruti Clean Coal Power                           | 0.09 | 0.0040% |
| 59 | Khargone STPP                   | 8.56  | 0.27% | Government of Himachal<br>Pradesh _ Chamera3HEP   | 0.07 | 0.0037% |
| 60 | Serentica<br>Renewables India 5 | 8.24  | 0.26% | Government of Himachal<br>Pradesh _ Chamera1HEP   | 0.01 | 0.0021% |
| 61 | Vindhyachal stg-1               | 8.01  | 0.25% | Government of Himachal<br>Pradesh_BairasuilHEP    | 0.01 | 0.0015% |
| 62 | NTPC Gadarwara                  | 7.90  | 0.25% | Sainj HEP                                         |      | 0.0013% |
| 63 | Sembcorp Gayatri                | 7.64  | 0.24% |                                                   |      |         |
| 64 | Kameng HEP                      | 7.58  | 0.24% |                                                   |      |         |
| 65 | ADANI                           | 7.50  | 0.24% |                                                   |      |         |
| 66 | Vindhyachal stg-4               | 7.04  | 0.22% |                                                   |      |         |
| 67 | Vindhyachal stg-3               | 6.93  | 0.22% |                                                   |      |         |
| 68 | Transition                      | 6.90  | 0.22% |                                                   |      |         |
| 69 | Punjab                          | 6.86  | 0.22% |                                                   |      |         |
| 70 | Kahalgaoon                      | 6.86  | 0.22% |                                                   |      |         |
| 71 | Barh STPS Stg - I               | 6.79  | 0.21% |                                                   |      |         |
| 72 | Dadri TPS                       | 6.71  | 0.21% |                                                   |      |         |
| 73 | ADANI                           | 6.65  | 0.21% |                                                   |      |         |
| 74 | Transition Energy               | 6.52  | 0.20% |                                                   |      |         |
| 75 | Neyveli New                     | 6.50  | 0.20% |                                                   |      |         |
| 76 | JITPL                           | 6.46  | 0.20% |                                                   |      |         |
| 77 | NTPC Lara                       | 6.43  | 0.20% |                                                   |      |         |
| 78 | NREL-Dayapar                    | 6.28  | 0.20% |                                                   |      |         |
| 79 | NVVN (SNA) -                    | 6.18  | 0.19% |                                                   |      |         |
| 80 | Mouda Stg-1                     | 6.14  | 0.19% |                                                   |      |         |
| 81 | Adept Renewable                 | 5.74  | 0.18% |                                                   |      |         |
| 82 | Amp Energy Green                | 5.66  | 0.18% |                                                   |      |         |
| 83 | NTPC Telangana                  | 5.40  | 0.17% |                                                   |      |         |
| 84 | Ostro Kannada                   | 5.19  | 0.16% |                                                   |      |         |
| 85 | Government of                   | 5.11  | 0.16% |                                                   |      |         |
| 86 | NTPP BRBCL                      | 4.76  | 0.15% |                                                   |      |         |
| 87 | Vindhyachal stg-2               | 4.34  | 0.14% |                                                   |      |         |
| 88 | RENEW SURYA                     | 4.34  | 0.14% |                                                   |      |         |
| 89 | Singoli Bhagwati                | 4.30  | 0.13% |                                                   |      |         |
| 90 | Ramagundam Stg-1                | 4.13  | 0.13% |                                                   |      |         |

|     |                                                    |      |       |  |  |  |
|-----|----------------------------------------------------|------|-------|--|--|--|
| 91  | NTECL Vallur                                       | 4.10 | 0.13% |  |  |  |
| 92  | NTPC Kudgi                                         | 3.96 | 0.12% |  |  |  |
| 93  | Farakka Stg 3                                      | 3.91 | 0.12% |  |  |  |
| 94  | ACBIL                                              | 3.91 | 0.12% |  |  |  |
| 95  | DB Power                                           | 3.89 | 0.12% |  |  |  |
| 96  | Arunachal Pradesh                                  | 3.89 | 0.12% |  |  |  |
| 97  | Vindhyachal stg-5                                  | 3.88 | 0.12% |  |  |  |
| 98  | NTPC Sholapur                                      | 3.68 | 0.12% |  |  |  |
| 99  | Unchahar-IV                                        | 3.62 | 0.11% |  |  |  |
| 100 | IGSTPS JHAJJAR                                     | 3.59 | 0.11% |  |  |  |
| 101 | Korba Stg 3                                        | 3.52 | 0.11% |  |  |  |
| 102 | Adani Green Energy                                 | 3.46 | 0.11% |  |  |  |
| 103 | MAHAN                                              | 3.30 | 0.10% |  |  |  |
| 104 | GMR Warora                                         | 3.27 | 0.10% |  |  |  |
| 105 | Manipur                                            | 3.25 | 0.10% |  |  |  |
| 106 | RKM Power                                          | 3.07 | 0.10% |  |  |  |
| 107 | Tanda Stg-2                                        | 2.98 | 0.09% |  |  |  |
| 108 | Dadri Stg-2                                        | 2.98 | 0.09% |  |  |  |
| 109 | Sikkim                                             | 2.92 | 0.09% |  |  |  |
| 110 | Onevolt Energy                                     | 2.62 | 0.08% |  |  |  |
| 111 | Government of<br>Himachal<br>Pradesh_Koldam<br>HEP | 2.56 | 0.08% |  |  |  |
| 112 | SEMBCORP                                           | 2.53 | 0.08% |  |  |  |
| 113 | Shree Cement                                       | 2.51 | 0.08% |  |  |  |
| 114 | Karcham Wangtoo                                    | 2.38 | 0.07% |  |  |  |
| 115 | MB Power                                           | 2.33 | 0.07% |  |  |  |
| 116 | Palatana                                           | 2.32 | 0.07% |  |  |  |
| 117 | NTPL                                               | 2.24 | 0.07% |  |  |  |
| 118 | IND BARATH                                         | 2.24 | 0.07% |  |  |  |
| 119 | Jaypee Nigrie                                      | 2.23 | 0.07% |  |  |  |
| 120 | Bongaigaon                                         | 2.19 | 0.07% |  |  |  |
| 121 | Maithon Power                                      | 2.18 | 0.07% |  |  |  |
| 122 | Ramagundam                                         | 2.08 | 0.07% |  |  |  |
| 123 | Goa WR                                             | 2.05 | 0.06% |  |  |  |
| 124 | ADANI                                              | 1.95 | 0.06% |  |  |  |
| 125 | Unchahar-I                                         | 1.91 | 0.06% |  |  |  |
| 126 | Adani Renewable                                    | 1.89 | 0.06% |  |  |  |
| 127 | AGBPP                                              | 1.83 | 0.06% |  |  |  |
| 128 | Simhadri Stg-2                                     | 1.81 | 0.06% |  |  |  |
| 129 | Dhariwal ISTS                                      | 1.80 | 0.06% |  |  |  |
| 130 | Adani Green Energy                                 | 1.73 | 0.05% |  |  |  |
| 131 | Simhapuri Energy                                   | 1.68 | 0.05% |  |  |  |
| 132 | Grian Energy Private                               | 1.68 | 0.05% |  |  |  |
| 133 | Jindal Steel                                       | 1.67 | 0.05% |  |  |  |
| 134 | Unchahar-II                                        | 1.60 | 0.05% |  |  |  |
| 135 | KBUNL(MTPS-II)                                     | 1.57 | 0.05% |  |  |  |
| 136 | NLC                                                | 1.56 | 0.05% |  |  |  |
| 137 | Government of<br>Himachal<br>Pradesh_RampurHEP     | 1.52 | 0.05% |  |  |  |
| 138 | TPSL Banderwala                                    | 1.40 | 0.04% |  |  |  |

|     |                                                    |      |       |  |  |  |
|-----|----------------------------------------------------|------|-------|--|--|--|
| 139 | Chandigarh                                         | 1.40 | 0.04% |  |  |  |
| 140 | Nagaland                                           | 1.36 | 0.04% |  |  |  |
| 141 | Adani Renewable                                    | 1.32 | 0.04% |  |  |  |
| 142 | ADANI SOLAR                                        | 1.24 | 0.04% |  |  |  |
| 143 | Unchahar-III                                       | 1.22 | 0.04% |  |  |  |
| 144 | Adani Green Energy                                 | 1.19 | 0.04% |  |  |  |
| 145 | ADHUNIK POWER                                      | 1.19 | 0.04% |  |  |  |
| 146 | Transition Green                                   | 1.14 | 0.04% |  |  |  |
| 147 | Lanco                                              | 1.13 | 0.04% |  |  |  |
| 148 | ADANI SOLAR                                        | 1.13 | 0.04% |  |  |  |
| 149 | Serentica                                          | 1.09 | 0.03% |  |  |  |
| 150 | TPSL 200MW                                         | 1.08 | 0.03% |  |  |  |
| 151 | ADANI GREEN                                        | 1.07 | 0.03% |  |  |  |
| 152 | NLC TPS-II Stg-2                                   | 1.03 | 0.03% |  |  |  |
| 153 | Government of<br>Himachal Pradesh_<br>CHAMERA2HEP  | 1.02 | 0.03% |  |  |  |
| 154 | RENEW SURYA                                        | 1.01 | 0.03% |  |  |  |
| 155 | ADANI GREEN                                        | 0.98 | 0.03% |  |  |  |
| 156 | Meghalaya                                          | 0.97 | 0.03% |  |  |  |
| 157 | Sorang HEP,                                        | 0.96 | 0.03% |  |  |  |
| 158 | Sainj HEP                                          | 0.93 | 0.03% |  |  |  |
| 159 | NSPCL Bhilai                                       | 0.91 | 0.03% |  |  |  |
| 160 | NLC TPS-II                                         | 0.90 | 0.03% |  |  |  |
| 161 | Government of<br>Himachal Pradesh _<br>Chamera1HEP | 0.90 | 0.03% |  |  |  |
| 162 | Amplus Ages                                        | 0.88 | 0.03% |  |  |  |
| 163 | NLC TPS-II Expn                                    | 0.86 | 0.03% |  |  |  |
| 164 | Serentica                                          | 0.84 | 0.03% |  |  |  |
| 165 | Adani Green Energy                                 | 0.81 | 0.03% |  |  |  |
| 166 | Simhadri FSP 15                                    | 0.81 | 0.03% |  |  |  |
| 167 | Ramagundam Stg-3                                   | 0.73 | 0.02% |  |  |  |
| 168 | NTPC SOLAPUR                                       | 0.70 | 0.02% |  |  |  |
| 169 | Adani Green Energy                                 | 0.64 | 0.02% |  |  |  |
| 170 | Government of<br>Himachal Pradesh _<br>Chamera3HEP | 0.64 | 0.02% |  |  |  |
| 171 | ADANI GREEN                                        | 0.59 | 0.02% |  |  |  |
| 172 | AD Hydro                                           | 0.51 | 0.02% |  |  |  |
| 173 | NTPC Simhadri 25                                   | 0.51 | 0.02% |  |  |  |
| 174 | Serentica                                          | 0.41 | 0.01% |  |  |  |
| 175 | GMR Kamalanga                                      | 0.38 | 0.01% |  |  |  |
| 176 | Daman & Diu -                                      | 0.36 | 0.01% |  |  |  |
| 177 | ADANI                                              | 0.33 | 0.01% |  |  |  |
| 178 | Adani Green Energy                                 | 0.33 | 0.01% |  |  |  |
| 179 | Serentica                                          | 0.32 | 0.01% |  |  |  |
| 180 | RENEW SURYA                                        | 0.29 | 0.01% |  |  |  |
| 181 | Government of                                      | 0.26 | 0.01% |  |  |  |
| 182 | Government of                                      | 0.23 | 0.01% |  |  |  |
| 183 | DHARIWAL STU                                       | 0.20 | 0.01% |  |  |  |
| 184 | Maruti Clean Coal                                  | 0.19 | 0.01% |  |  |  |

|                               |                                                                |                 |               |                               |                 |               |
|-------------------------------|----------------------------------------------------------------|-----------------|---------------|-------------------------------|-----------------|---------------|
| 185                           | AMP Energy Green                                               | 0.18            | 0.01%         |                               |                 |               |
| 186                           | ADANI                                                          | 0.17            | 0.01%         |                               |                 |               |
| 187                           | Lanco Budhil                                                   | 0.16            | 0.01%         |                               |                 |               |
| 188                           | IL&FS                                                          | 0.14            | 0.004%        |                               |                 |               |
| 189                           | ADANI<br>RENEWABLE<br>ENERGY FIFTY<br>FIVE                     | 0.13            | 0.004%        |                               |                 |               |
| 190                           | ADANI<br>RENEWABLE<br>ENERGY FIFTY<br>FIVE<br>LIMITED_PSS3 (25 | 0.13            | 0.004%        |                               |                 |               |
| 191                           | Adani Green Energy                                             | 0.11            | 0.003%        |                               |                 |               |
| 192                           | NEA-NR                                                         | 0.09            | 0.003%        |                               |                 |               |
| 193                           | Dikchu                                                         | 0.06            | 0.002%        |                               |                 |               |
| 194                           | ADANI GREEN                                                    | 0.06            | 0.002%        |                               |                 |               |
| 195                           | Jorethang                                                      | 0.05            | 0.001%        |                               |                 |               |
| 196                           | Simhadri Stg-1                                                 | 0.05            | 0.001%        |                               |                 |               |
| 197                           | Tashiding HEP                                                  | 0.04            | 0.001%        |                               |                 |               |
| 198                           | Chuzachen                                                      | 0.04            | 0.001%        |                               |                 |               |
| 199                           | ADANI                                                          | 0.03            | 0.001%        |                               |                 |               |
| 200                           | Goa SR                                                         | 0.02            | 0.001%        |                               |                 |               |
| 201                           | KSK Mahanadi                                                   | 0.02            | 0.001%        |                               |                 |               |
| <b>Total Volume of top 10</b> |                                                                | <b>1,869.78</b> | <b>58.73%</b> | <b>Total Volume of top 10</b> | <b>2,490.39</b> | <b>78.22%</b> |
| <b>Total Volume in PXs</b>    |                                                                | <b>3,183.70</b> |               | <b>Total Volume in PXs</b>    | <b>3,183.70</b> |               |

| Cross Border Electricity Transactions under Day Ahead Market (DAM) in IEX with Nepal and Bhutan during the month of December, 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                                                                                                                                  | 01-12-2024    | -                        | -                         | 3.75                      | -                          |
| 2                                                                                                                                  | 02-12-2024    | 0.42                     | -                         | 4.10                      | -                          |
| 3                                                                                                                                  | 03-12-2024    | 0.42                     | 0.60                      | 4.64                      | -                          |
| 4                                                                                                                                  | 04-12-2024    | 0.79                     | 0.50                      | 4.65                      | -                          |
| 5                                                                                                                                  | 05-12-2024    | 0.91                     | 0.27                      | 4.89                      | -                          |
| 6                                                                                                                                  | 06-12-2024    | 0.87                     | 0.21                      | 4.84                      | -                          |
| 7                                                                                                                                  | 07-12-2024    | 0.65                     | 0.24                      | 4.89                      | -                          |
| 8                                                                                                                                  | 08-12-2024    | -                        | 0.46                      | 5.04                      | -                          |
| 9                                                                                                                                  | 09-12-2024    | 1.39                     | 0.28                      | 5.05                      | -                          |
| 10                                                                                                                                 | 10-12-2024    | 1.02                     | 0.19                      | 5.18                      | -                          |
| 11                                                                                                                                 | 11-12-2024    | 1.05                     | 0.13                      | 6.00                      | -                          |
| 12                                                                                                                                 | 12-12-2024    | 1.14                     | 0.13                      | 7.44                      | -                          |
| 13                                                                                                                                 | 13-12-2024    | 1.23                     | -                         | 6.35                      | -                          |
| 14                                                                                                                                 | 14-12-2024    | 0.69                     | -                         | 6.92                      | -                          |
| 15                                                                                                                                 | 15-12-2024    | -                        | -                         | 6.81                      | -                          |
| 16                                                                                                                                 | 16-12-2024    | 0.67                     | -                         | 7.28                      | -                          |
| 17                                                                                                                                 | 17-12-2024    | 0.63                     | -                         | 7.40                      | -                          |
| 18                                                                                                                                 | 18-12-2024    | 1.38                     | -                         | 7.74                      | -                          |
| 19                                                                                                                                 | 19-12-2024    | 2.37                     | -                         | 7.78                      | -                          |
| 20                                                                                                                                 | 20-12-2024    | 2.42                     | -                         | 7.67                      | -                          |
| 21                                                                                                                                 | 21-12-2024    | 2.35                     | -                         | 8.44                      | -                          |
| 22                                                                                                                                 | 22-12-2024    | 3.04                     | -                         | 8.04                      | -                          |
| 23                                                                                                                                 | 23-12-2024    | 3.20                     | -                         | 8.41                      | -                          |
| 24                                                                                                                                 | 24-12-2024    | 3.12                     | -                         | 8.46                      | -                          |
| 25                                                                                                                                 | 25-12-2024    | 3.65                     | -                         | 8.99                      | -                          |
| 26                                                                                                                                 | 26-12-2024    | 1.92                     | -                         | 9.18                      | -                          |
| 27                                                                                                                                 | 27-12-2024    | 1.94                     | -                         | 7.13                      | -                          |
| 28                                                                                                                                 | 28-12-2024    | 0.98                     | -                         | 9.49                      | -                          |
| 29                                                                                                                                 | 29-12-2024    | 0.93                     | -                         | 10.58                     | -                          |
| 30                                                                                                                                 | 30-12-2024    | 1.87                     | -                         | 10.12                     | -                          |
| 31                                                                                                                                 | 31-12-2024    | 2.15                     | -                         | 7.29                      | -                          |
| Total                                                                                                                              |               | 43.20                    | 3.01                      | 214.55                    | -                          |
| Grand Total                                                                                                                        |               | 260.76                   |                           |                           |                            |

-: No transaction took place

**Note:** Cross Border Transactions of Electricity of 260.76 MU (i.e. 43.20 MU bought by Nepal, 3.01 MU sold by Nepal, 214.55 MU bought by Bhutan) happened during December, 2024 in IEX, which is included under DAM Volume of December, 2024 in IEX.

| Cross Border Electricity Transactions under Real Time Market (RTM) in IEX with Nepal and Bhutan during the month of December, 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                                                                                                                                  | 01-12-2024    | 0.43                     | 1.50                      | 0.60                      | -                          |
| 2                                                                                                                                  | 02-12-2024    | 0.47                     | 1.26                      | 0.26                      | -                          |
| 3                                                                                                                                  | 03-12-2024    | 0.49                     | 0.03                      | -                         | -                          |
| 4                                                                                                                                  | 04-12-2024    | 0.47                     | -                         | 0.20                      | -                          |
| 5                                                                                                                                  | 05-12-2024    | 0.56                     | 0.07                      | -                         | -                          |
| 6                                                                                                                                  | 06-12-2024    | 0.51                     | 0.05                      | 0.35                      | -                          |
| 7                                                                                                                                  | 07-12-2024    | 0.21                     | 0.02                      | 0.15                      | -                          |
| 8                                                                                                                                  | 08-12-2024    | 1.09                     | -                         | 0.59                      | -                          |
| 9                                                                                                                                  | 09-12-2024    | 0.65                     | 0.11                      | 0.89                      | -                          |
| 10                                                                                                                                 | 10-12-2024    | 1.00                     | -                         | 1.27                      | -                          |
| 11                                                                                                                                 | 11-12-2024    | 0.76                     | -                         | 0.84                      | -                          |
| 12                                                                                                                                 | 12-12-2024    | 1.03                     | -                         | -                         | -                          |
| 13                                                                                                                                 | 13-12-2024    | 0.99                     | -                         | 0.14                      | -                          |
| 14                                                                                                                                 | 14-12-2024    | 1.34                     | -                         | 0.00                      | -                          |
| 15                                                                                                                                 | 15-12-2024    | 2.64                     | -                         | 0.73                      | -                          |
| 16                                                                                                                                 | 16-12-2024    | 2.27                     | -                         | 0.06                      | -                          |
| 17                                                                                                                                 | 17-12-2024    | 2.84                     | -                         | -                         | -                          |
| 18                                                                                                                                 | 18-12-2024    | 1.94                     | -                         | -                         | -                          |
| 19                                                                                                                                 | 19-12-2024    | 1.36                     | -                         | -                         | -                          |
| 20                                                                                                                                 | 20-12-2024    | 1.61                     | -                         | 0.39                      | -                          |
| 21                                                                                                                                 | 21-12-2024    | 1.50                     | -                         | -                         | -                          |
| 22                                                                                                                                 | 22-12-2024    | 0.85                     | -                         | -                         | -                          |
| 23                                                                                                                                 | 23-12-2024    | 0.63                     | -                         | -                         | -                          |
| 24                                                                                                                                 | 24-12-2024    | 0.96                     | 0.08                      | 0.22                      | -                          |
| 25                                                                                                                                 | 25-12-2024    | -                        | 1.35                      | -                         | -                          |
| 26                                                                                                                                 | 26-12-2024    | 0.08                     | 0.44                      | -                         | -                          |
| 27                                                                                                                                 | 27-12-2024    | 0.05                     | 0.35                      | 1.04                      | -                          |
| 28                                                                                                                                 | 28-12-2024    | 0.33                     | 0.35                      | 0.58                      | -                          |
| 29                                                                                                                                 | 29-12-2024    | 1.36                     | 0.38                      | -                         | -                          |
| 30                                                                                                                                 | 30-12-2024    | 0.62                     | 0.18                      | -                         | -                          |
| 31                                                                                                                                 | 31-12-2024    | 0.49                     | 0.11                      | -                         | -                          |
| <b>Total</b>                                                                                                                       |               | <b>29.53</b>             | <b>6.28</b>               | <b>8.31</b>               | <b>0.60</b>                |
| <b>Grand Total</b>                                                                                                                 |               | <b>44.12</b>             |                           |                           |                            |

-: No transaction took place

**Note:** Cross Border Transactions of Electricity of **44.12 MU (i.e. 29.53 MU bought by Nepal, 8.31 MU bought by Bhutan, 6.28 MU sold by Nepal)** happened during December, 2024 in IEX, which is included under RTM Volume of December, 2024 in IEX.

**Analysis for change in trend of Final Scheduled Volume under DAM on 4<sup>th</sup> Sunday of December, 2024 (i.e. 22<sup>nd</sup> December, 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 December, 2024, it is observed that on fourth Sunday (22<sup>nd</sup> December, 2024), FSV showed increasing trend in comparison to third Saturday (21<sup>st</sup> December, 2024).

- (i) On fourth Sunday (22<sup>nd</sup> December, 2024), although there was decrease in purchase on power exchange by some of the States in comparison to third Saturday (21<sup>st</sup> December, 2024) by **5.49 MU** [i.e. Uttarakhand (1.76 MU), Himachal Pradesh (1.42 MU), Punjab (1.29 MU) and Delhi (0.88 MU) , etc.], there was also increase in purchase on power exchange by some of the States by **35.21 MU** [i.e. Telangana (14.77 MU), Gujarat (12.13 MU), Maharashtra (5.45 MU) and Madhya Pradesh (1.86 MU), etc.]. This resulted in an overall increase in FSV by **29.72 MU** on Sunday (22<sup>nd</sup> December, 2024) as compared to Saturday (21<sup>st</sup> December, 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).