



जुलाई, 2019 की मासिक मार्केट मॉनिटरिंग रिपोर्ट

Monthly Market Monitoring Report

July, 2019



भारत सरकार/ Government of India

विद्युत मंत्रालय/ Ministry of Power

केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority

आर. ए. प्रभाग/ Regulatory Affairs Division

मार्केट मॉनिटरिंग सेल /Market Monitoring Cell

TABLE OF CONTENTS

S.N.	Title	Page
1.	Day Ahead Market (DAM)	1
2.	Summary of the market in the power exchanges	1
3.	Term Ahead Market	2
4.	Analysis of movement of prices observed in DAM during July, 2019	3
5.	Definitions/ terminologies used in the Report	7

TABLES

1.	Table: 1 MCP of IEX and PXIL	1
2.	Table: 2 ACP of IEX.	2
3.	Table: 3 DAM Scheduled Volume of IEX and PXIL for July, 2019 vs July, 2018	2
4.	Table: 4 TAM Scheduled Volume of IEX and PXIL for July, 2019 vs July, 2018	3

FIGURES

1.	Figure: 1 Comparison of Total Purchase, Sell bids along with FSV and Daly MCP	4
2.	Figure: 2 Comparison of Maximum, Minimum, Daily, Non Peak Time, Peak Time MCP	4

APPENDIX

1.	Appendix: Change in Trend of Final Scheduled Volume and Daily MCP	8
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ANNEXURES

1.	Annexure-I: All MCP viz: Peak Time MCP, Non-Peak MCP, Maximum MCP, Minimum MCP, Average MCP and Final Schedule Volume	9
2.	Annexure-II: Comparison of MCP w.r.t. Purchase Bid for 2976 Time Blocks during the month of July, 2019	10
3.	Annexure-III: Max. FSV, Min FSV, Max MCP and Min MCP w.r.t all Time blocks	11
4.	Annexure-IV: Top Ten Entity (Sellers and Purchaser) during the month of July, 2019	12

REPORT FOR MONTH: JULY, 2019

OVERVIEW OF ELECTRICITY TRANSACTIONS ON POWER EXCHANGES IN INDIA

1. DAY AHEAD MARKET (DAM)

- 1.1. The total volume of electricity transacted on both the power exchanges, viz., IEX and PXIL in the day ahead market in the month of July 2019 was 4,800.72 MU. The total energy supplied in the country during the month of July, 2019 was 1,16,485 MU. The volume of electricity traded on the power exchanges in DAM represents 4.12% of the total energy supplied in the country. The total volume of electricity transacted in July, 2018 was 4054.24 MU which was 3.71% of the total energy supplied [109,207 MU].
- 1.2. The volume of electricity transacted on IEX and PXIL during July, 2019 are 4,800.37 MU and 0.35 MU respectively, which means that the total volume transacted on IEX is 99.99 % of the total volume on the power exchanges. Whereas, the total volume electricity transacted during July, 2018 on IEX and PXIL was 4,027.80 MU and 26.45 MU respectively, which means that the total volume transacted on IEX was 99.35% of total volume on the power exchanges.
- 1.3. The Average Market Clearing Price (MCP) on IEX during the month July, 2019 was Rs 3.38/ kWh, which shows a decline of 2.31% when compared with average MCP for the month of July, 2018, which was Rs 3.46/kWh. Similarly, on PXIL, the Average MCP during the month July, 2019 was Rs 3.21/kWh, which shows a decline of nearly 0.31% when compared with average MCP for the month of July, 2018, which was Rs 3.22/kWh.

2. SUMMARY OF THE MARKET CLEARING PRICE, AREA CLEARING PRICES AND SCHEDULED VOLUME IN THE POWER EXCHANGES

- 2.1. A comparison of the Minimum, Maximum and Average of daily MCP during the months of July, 2019 and July, 2018 are as given below:

MCP (Rs/kWh)	IEX		PXIL	
	July, 2019	July, 2018	July, 2019	July, 2018
Minimum	2.41	2.67	3.14	2.85
Maximum	4.38	4.30	3.25	4.10
Average	3.38	3.46	3.21	3.22

Table: 1

- 2.2. The Maximum Area Clearing Price (ACP) in IEX was observed in all regions at **Rs 9.29 /kWh** during the time block 21:00-21:15 on 13th July, 2019. The MCP for this time-block was also Rs 9.29/ kWh and as there was no congestion in transmission system, the ACP was same as MCP. However, the daily MCP on pan India basis on 13th July, 2019 was **Rs 3.70/ kWh**.
- 2.3. The Minimum ACP observed in IEX among all 13 bid areas was **Rs 1.05/kWh** during the time block 07:15-07:30 on 1st July, 2019. The MCP for this time-block was also **Rs 1.05/ kWh** and as there was no congestion in transmission system, the ACP was same as MCP. However, the Daily MCP on pan India basis on 1st July 2019 was **Rs 3.02/ kWh**.
- 2.4. A comparison of the Minimum and Maximum ACP during the months of July, 2019 and July, 2018 in IEX are as given below:

ACP (Rs/kWh)	IEX	
	July, 2019	July, 2018
Minimum	1.05	1.79
Maximum	9.29	9.70

Table: 2

- 2.5. A comparison of the Minimum, Maximum and Average Scheduled Volume of electricity transactions happened on IEX and PXIL for a day during the months of July, 2019 and July, 2018 are as given below:

Scheduled Volume (MU)	IEX		PXIL	
	July, 2019	July, 2018	July, 2019	July, 2018
Minimum	109.10	101.46	0.045	0.156
Maximum	193.12	159.87	0.106	2.630
Average	154.85	129.93	0.069	0.882

Table: 3

3.0 TERM AHEAD MARKET (TAM)

- 3.1 The total traded volume of electricity transacted on both the power exchanges in term ahead market in July, 2019 was **747.94 MU** which corresponds to **523.59 MU** on IEX and **224.35 MU** on PXIL), which shows an increase by 4.59 times when compared with total traded volume of electricity transacted during July, 2018, which was **133.71 MU**

(i.e. **121.73 MU** on IEX and **11.98 MU** on PXIL). The total volume transacted on IEX in July, 2019 and July, 2018 in term ahead market in both the power exchanges was 70.00% and 91.04%, respectively.

Term Ahead Market	IEX		PXIL	
	July, 2019	July, 2018	July, 2019	July, 2018
Total Volume (MU)	523.59	121.73	224.35	11.98

Table: 4

- 3.2** With respect to the total energy supplied during the month of July, 2019 in the country, the volume of electricity traded on the power exchanges in TAM represents 0.64% of the total energy supplied. The same was 0.12% in July, 2018.

4.0 ANALYSIS OF MOVEMENT OF PRICES OBSERVED IN DAM DURING JULY, 2019

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 July month. The observations made are as under:

- 4.1** In order to find out the determinants which are responsible for the Daily MCP, a regression analysis has been carried out where the Daily MCP is the dependent variable and the independent variables are 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. Data pertaining to few months were utilized for this purpose.
- 4.2** A double log function was used so that elasticity of Daily MCP could be read off from the coefficients of independent variables. The regression analysis revealed that the significant variables were only the total purchase bid, total sell bid and solar generation. All the other variables were found to be insignificant. The regression analysis further revealed that the maximum elasticity of the Daily MCP was with respect to average purchase bid and elasticity figure was around 0.67. In effect, the regression reveals that the most important variable which determines market clearing price is the average purchase bid. The same relationship is visible from the analysis carried out from the plot in **Figure 1**.

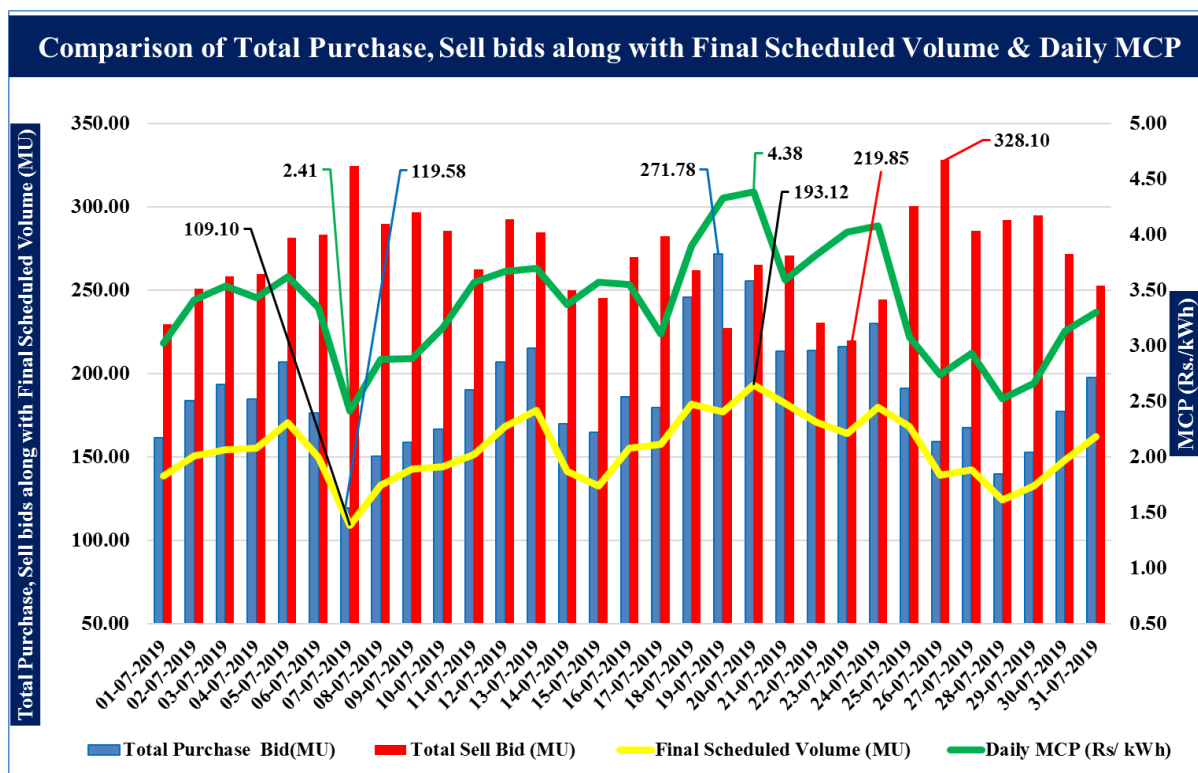


Figure -1

4.3 The Final Scheduled Volume (MU) and the Daily MCP (Rs/kWh) invariably showed decreasing trend on Sundays as the demand is less compared to other days of week. However, in the month of July 2019, it was observed that the Final Scheduled Volume showed decreasing trend on Mondays (15th July and 22nd July, 2019) and Tuesday (23rd July, 2019) instead of Sundays (14th and 21st July 2019) as shown in Figure 1. The detailed analysis on this is given at **Appendix**.

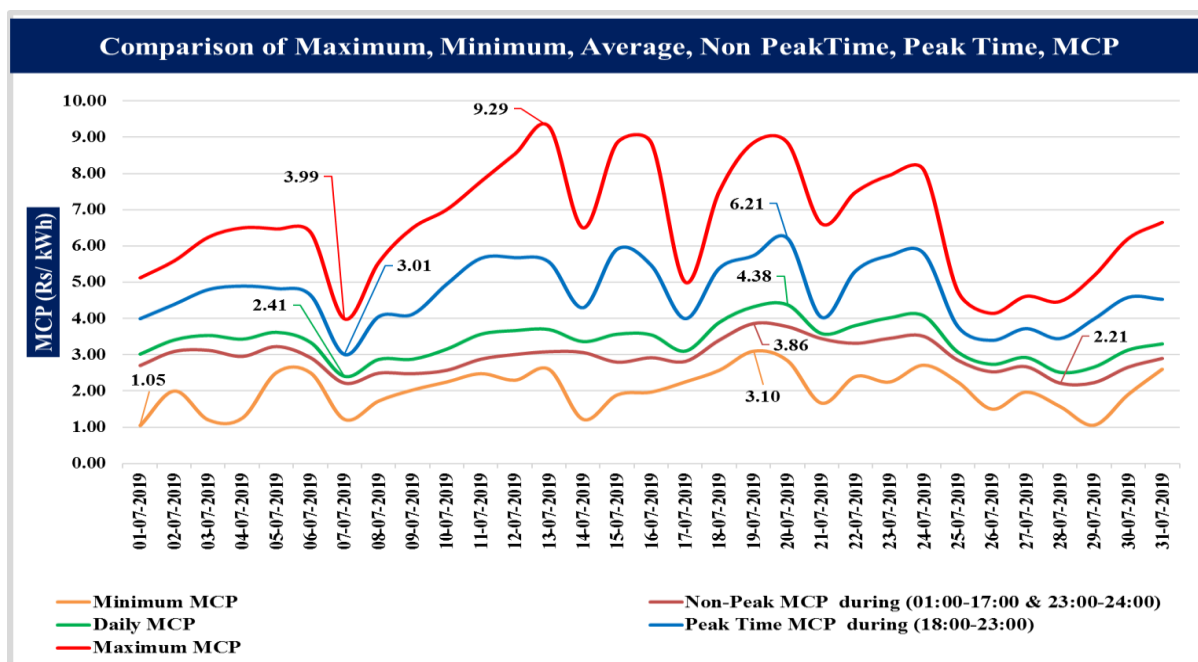


Figure -2

- 4.4 A comparison of maximum, minimum, daily, non-peak time, peak time MCP is shown in **Figure -2**. The same are also tabulated in **Annexure I**.
- 4.5 The Purchase Bids and the MCP discovered in each of the 15-minute time block during the month almost followed the same trend [**Annexure II**]. This is also corroborated with the outcome of regression analysis mentioned in at para 4.1 and 4.2 above.
- 4.6 On **24** days during the month, the maximum MCP occurred during the **time period 20:30 to 22:00** continuously [**Annexure III**].
- 4.7 On 12 days during the month, the minimum MCP occurred during the **time period 08:00 to 08:45** continuously [**Annexure III**].
- 4.8 On 12 days during the month, the maximum FSV occurred during the **time period 22:30 to 23:45** continuously [**Annexure III**].
- 4.9 On 13 days during the month, the minimum FSV occurred during the **time period 08:00 to 09:15** continuously [**Annexure III**].
- 4.10 The maximum demand met during the month of July, 2019 in the country occurred on **3rd July, 2019 at 175.16 GW**, which is more compared to maximum demand during the month of **July, 2018 i.e.167.87 GW** which occurred on 10th July, 2018. [Source: NLDC]
- 4.11 One Nation One Price was observed for all 31 days during the month including [24th July, 2019] the day on which there was real time curtailment due to transmission constraints. There was no congestion in all 13 bid areas during the month, hence ACPs were same as MCP for respective time blocks during the month.
- 4.12 Due to real time curtailment, .039 MU could not be transacted on the IEX on 24th July, 2019. The curtailment happened on **24th July, 2019** during **75th to 84th time-blocks**. Further, there was no real time curtailment on PXIL.
- 4.13 The real time curtailment in July, 2019 was **0.039 MU** as compared to **26.61 MU** in July, 2018.
- 4.14 The top **10 sellers** on the power exchanges during the month are: **Teesta -3, Himachal Pradesh, Madhya Pradesh, Maharashtra, Assam, Haryana, Rajasthan, AD Hydro, Costal Energen and Karnataka** which constituted **50.31%** of the market share [**Annexure IV**].
- 4.15 The top **10 purchaser** on the power exchanges during the month are: **West Bengal, Tamil Nadu, Telangana, Bihar, Chhattisgarh, Kerala, Odisha, Gujarat, Andhra**

Pradesh and Uttar Pradesh which constituted **81.04%** of the market share. **[Annexure IV]**.

Definition/ Terminologies used in the Report

1. **Area Clearing Price (ACP)** is area clearing price in each time block in each of 13 bid areas. The country has been divided into 13 bid areas for the purpose of calculating prices in Power Exchanges

13 Bid area 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. **Daily MCP** is the average of MCP of all 96 Time Blocks during the day.
3. **Day-Ahead Market (DAM)** on the power exchanges are market for electricity where market participants purchase and sell electricity at financially binding day-ahead prices for the following day.
4. **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.
5. **Energy Supplied** is the total energy (MU) available at the States' periphery.
6. **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.
7. **Term Ahead Market (TAM)** on the power exchanges are market for electricity where market participants buy/sell electricity on a term basis ranging from 3 hours before actual despatch (i.e. intra-day) and up to 11 days in advance. There are 4 types of contracts in TAM; namely, Intraday, Day Ahead Contingency, Daily and Weekly.

Appendix**Analysis for change in Trend of Final Scheduled Volume (MU) on 2nd and 3rd Sundays of July, 2019 [i.e. on 14th and 21st July, 2019]**

1. It has been observed that during the months of April to June, 2019, the Final Scheduled Volume (FSV) and Daily MCP invariably showed similar trends of decreasing on Sundays and increasing on Mondays as demand is less on Sundays compared to other days of the week.
2. On the contrary, while analyzing the daily MCP and Final Scheduled Volume (FSV) on weekly basis for the month of July, 2019, it was observed that the Final Scheduled Volume showed decreasing trend on Mondays (15th July and 22nd July, 2019) and Tuesday (23rd July, 2019) instead of Sundays (14th and 21st **July** 2019).
3. On analysis of this variation in trends of FSV on 15th, 22nd and 23rd July 2019, it has been observed as under:
 - i) It can be seen from Figure-1 that in comparison to Sundays (i.e. 14th & 21st July 2019), the sell bid volume decreased, whereas the purchase bid volume was either less or similar on 15th, 22nd and 23rd July 2019. It may be seen that the FSV decreased on 15th July 2019 by 8.54 MU, whereas the hydro generation and renewable energy generation in the country increased by 10.92 MU and 30.19 MU, respectively as compared to these on 14th July, 2019. Similarly, thermal generation increased by 60.48 MU on 15th July, 2019 as compared to 14th July. Apparently, the increased generation availability for the States might have led to lesser FSV on the power exchanges.
 - ii) Further, it may be mentioned that the increase in generation from thermal, hydro and renewable sources on 22nd July, 2019 were 138.54 MU, 23.06 MU and 10.77 MU, respectively, whereas the decrease in FSV was 11.40 MU only. Similarly, on 23rd July, 2019, the increase in generation from thermal and renewable sources were 108.25 MU and 10.14 MU, respectively as compared to decrease in FSV by 6.78 MU and also in hydro generation by 17.28 MU. It could also be seen that the sell bid volume decreased by 40.29 MU on 22nd July, 2019 and 10.50 MU on 23rd July.
 - iii) The reason for not much change in purchase bid volume on 15th, 22nd and 23rd July 2019 could be due to increased states' power availability from their own generation from various sources.
 - iv) Lesser sell bid volumes on the power exchanges on 15th, 22nd and 23rd July, 2019 may be due to the outages of the generating units which are selling on the same.

[Source: National Power Portal]

Annexure-I

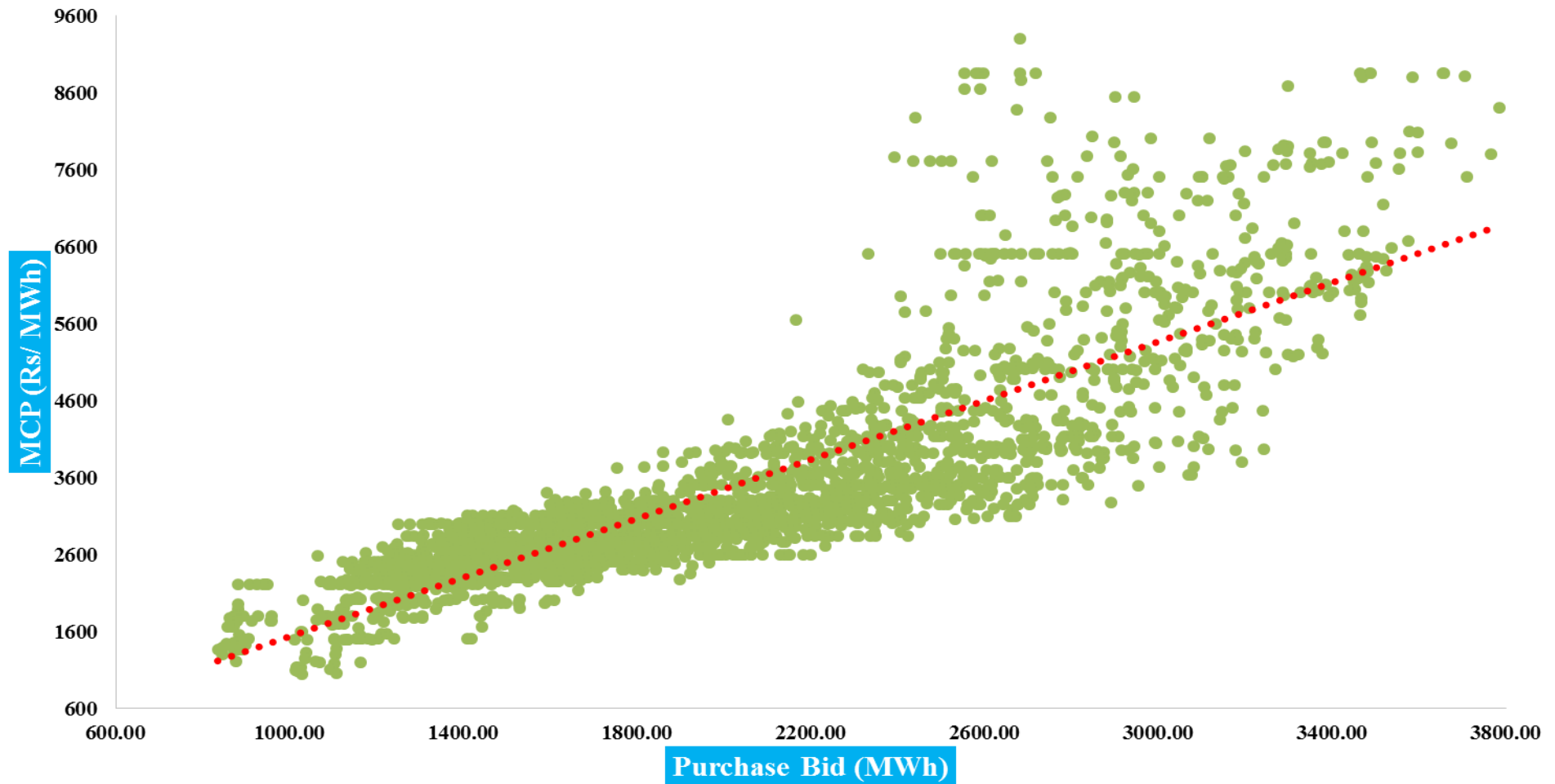
Date	MCP during (01:00-06:00, 23:00-24:00)	MCP during (07:00-10:00)	MCP during (11:00- 17:00)	Peak Time MCP during (18:00-23:00)	Non-Peak MCP during (01:00-17:00 & 23:00-	Maximum MCP	Minimum MCP	Daily MCP	Final Scheduled Volume (MU)
01-07-2019	3.08	1.79	2.83	3.99	2.70	5.12	1.05	3.02	138.77
02-07-2019	3.50	2.63	2.93	4.39	3.09	5.59	2.00	3.41	150.60
03-07-2019	3.55	2.60	2.99	4.80	3.12	6.24	1.20	3.54	154.35
04-07-2019	3.50	2.27	2.79	4.89	2.95	6.50	1.25	3.44	155.31
05-07-2019	3.69	2.88	2.95	4.82	3.22	6.47	2.51	3.62	170.59
06-07-2019	3.32	2.61	2.69	4.64	2.91	6.38	2.50	3.35	149.75
07-07-2019	2.80	1.75	1.88	3.01	2.21	3.99	1.21	2.41	109.10
08-07-2019	2.69	2.16	2.47	4.05	2.49	5.54	1.72	2.88	133.09
09-07-2019	2.75	2.36	2.25	4.12	2.47	6.50	2.03	2.88	142.90
10-07-2019	2.88	2.40	2.34	4.95	2.57	7.01	2.25	3.16	144.45
11-07-2019	3.34	2.74	2.49	5.66	2.87	7.78	2.48	3.57	151.55
12-07-2019	3.50	2.86	2.59	5.68	3.00	8.54	2.30	3.67	168.06
13-07-2019	3.51	2.93	2.74	5.56	3.08	9.29	2.60	3.70	177.85
14-07-2019	3.99	2.78	2.29	4.30	3.06	6.50	1.22	3.37	141.29
15-07-2019	3.06	2.61	2.63	5.91	2.79	8.85	1.89	3.57	132.75
16-07-2019	3.29	2.68	2.68	5.47	2.92	8.85	1.97	3.55	155.24
17-07-2019	3.08	2.62	2.65	3.99	2.81	5.00	2.25	3.11	157.55
18-07-2019	3.89	3.10	3.09	5.38	3.40	7.51	2.57	3.90	181.87
19-07-2019	4.23	3.58	3.64	5.73	3.86	8.85	3.10	4.33	177.06
20-07-2019	4.29	3.35	3.50	6.21	3.77	8.85	2.84	4.38	193.12
21-07-2019	4.31	3.02	2.82	4.03	3.44	6.62	1.66	3.59	182.37
22-07-2019	3.66	2.78	3.27	5.31	3.31	7.49	2.40	3.81	170.97
23-07-2019	3.93	2.80	3.34	5.74	3.45	7.95	2.25	4.02	164.19
24-07-2019	3.87	3.27	3.28	5.80	3.51	8.10	2.71	4.08	179.90
25-07-2019	3.05	2.69	2.72	3.78	2.84	4.75	2.25	3.08	168.49
26-07-2019	2.53	2.60	2.47	3.40	2.52	4.14	1.50	2.74	139.12
27-07-2019	2.72	2.51	2.70	3.72	2.67	4.61	1.97	2.93	142.49
28-07-2019	2.35	1.97	2.22	3.45	2.21	4.47	1.57	2.52	124.18
29-07-2019	1.98	1.82	2.70	3.99	2.23	5.18	1.06	2.67	132.67
30-07-2019	2.70	2.73	2.56	4.58	2.65	6.20	1.90	3.13	148.50
31-07-2019	3.05	2.88	2.75	4.53	2.89	6.65	2.60	3.30	162.25
Maximum	4.31	3.58	3.64	6.21	3.86	9.29	3.10	4.38	193.12
Minimum	1.98	1.75	1.88	3.01	2.21	3.99	1.05	2.41	109.10
Average	3.29	2.64	2.75	4.71	2.94	6.63	2.03	3.38	154.85

MCP: Market Clearing Price (Rs/kWh)

FSV: Final Scheduled Volume (MU)

[Source: IEX]

Comparison of MCP w.r.t. Purchase bid for 2976 Time BLocks during the month of July, 2019



Annexure-III

Date	Max. FSV (MU)		Max. MCP (Rs./kWh)		Min FSV (MU)		Min. MCP (Rs./kWh)	
	Time Block	Value	Time Block	Value	Time Block	Value	Time Block	Value
01-07-2019	23:00 - 23:15	2.12	22:30 - 22:45	5.12	06:45 - 07:00	1.01	07:15 - 07:30	1.05
02-07-2019	22:45 - 23:00	2.37	22:30 - 22:45	5.59	08:00 - 08:15	1.06	08:00 - 08:15	2.00
03-07-2019	19:30 - 19:45	2.56	21:15 - 21:30	6.24	08:30 - 08:45	0.97	08:30 - 08:45	1.20
04-07-2019	19:30 - 19:45	2.46	22:15 - 22:30	6.50	08:45 - 09:00	0.97	08:15 - 08:30	1.25
05-07-2019	23:15 - 23:30	2.66	21:30 - 21:45	6.47	08:15 - 08:30	1.10	08:00 - 08:15	2.51
06-07-2019	20:00 - 20:15	2.38	22:15 - 22:30	6.38	08:00 - 08:15	1.01	17:15 - 17:30	2.50
07-07-2019	21:45 - 22:00	1.83	21:30 - 21:45	3.99	17:00 - 17:15	0.83	09:00 - 09:15	1.21
08-07-2019	22:00 - 22:15	2.29	19:45 - 20:00	5.54	04:45 - 05:00	0.96	08:00 - 08:15	1.72
09-07-2019	20:15 - 20:30	2.15	21:00 - 21:15	6.50	08:15 - 08:30	1.12	13:15 - 13:30	2.03
10-07-2019	23:30 - 23:45	2.02	20:45 - 21:00	7.01	13:15 - 13:30	1.18	13:15 - 13:30	2.25
11-07-2019	07:00 - 07:15	2.02	20:45 - 21:00	7.78	02:30 - 02:45	1.22	09:00 - 09:15	2.48
12-07-2019	23:15 - 23:30	2.25	20:45 - 21:00	8.54	11:00 - 11:15	1.36	11:15 - 11:30	2.30
13-07-2019	07:00 - 07:15	2.10	21:00 - 21:15	9.29	02:30 - 02:45	1.66	09:00 - 09:15	2.60
14-07-2019	23:15 - 23:30	2.02	21:45 - 22:00	6.50	17:00 - 17:15	0.98	16:45 - 17:00	1.22
15-07-2019	23:30 - 23:45	1.88	21:00 - 21:15	8.85	02:45 - 03:00	1.06	08:15 - 08:30	1.89
16-07-2019	22:30 - 22:45	1.98	21:30 - 21:45	8.85	04:45 - 05:00	1.32	08:00 - 08:15	1.97
17-07-2019	07:00 - 07:15	2.08	20:30 - 20:45	5.00	08:30 - 08:45	1.30	08:15 - 08:30	2.25
18-07-2019	06:45 - 07:00	2.26	21:00 - 21:15	7.51	08:30 - 08:45	1.57	09:00 - 09:15	2.57
19-07-2019	19:15 - 19:30	2.21	21:45 - 22:00	8.85	14:15 - 14:30	1.48	03:15 - 03:30	3.10
20-07-2019	00:45 - 01:00	2.42	21:15 - 21:30	8.85	18:00 - 18:15	1.56	08:30 - 08:45	2.84
21-07-2019	23:15 - 23:30	2.55	22:45 - 23:00	6.62	18:00 - 18:15	1.36	18:00 - 18:15	1.66
22-07-2019	23:15 - 23:30	2.39	21:45 - 22:00	7.49	18:00 - 18:15	1.39	08:00 - 08:15	2.40
23-07-2019	00:00 - 00:15	2.27	21:45 - 22:00	7.95	18:00 - 18:15	1.36	08:30 - 08:45	2.25
24-07-2019	23:00 - 23:15	2.69	21:30 - 21:45	8.10	08:45 - 09:00	1.51	09:00 - 09:15	2.71
25-07-2019	20:15 - 20:30	2.12	21:15 - 21:30	4.75	09:00 - 09:15	1.47	09:00 - 09:15	2.25
26-07-2019	21:00 - 21:15	2.20	20:45 - 21:00	4.14	13:15 - 13:30	1.05	04:30 - 04:45	1.50
27-07-2019	21:45 - 22:00	2.12	21:00 - 21:15	4.61	09:00 - 09:15	1.13	08:15 - 08:30	1.97
28-07-2019	21:30 - 21:45	1.95	21:00 - 21:15	4.47	09:00 - 09:15	1.06	05:15 - 05:30	1.57
29-07-2019	21:30 - 21:45	1.93	20:30 - 20:45	5.18	04:45 - 05:00	1.04	06:30 - 06:45	1.06
30-07-2019	22:30 - 22:45	2.25	20:30 - 20:45	6.20	13:30 - 13:45	1.16	04:30 - 04:45	1.90
31-07-2019	21:30 - 21:45	2.30	20:00 - 20:15	6.65	08:45 - 09:00	1.32	13:15 - 13:30	2.60

MCP: Market Clearing Price (Rs/kWh)

FSV: Final Scheduled Volume (MU)

[Source: IEX]

Annexure-IV**Top Ten Entity (Sellers and Purchaser) during the month of July, 2019**

Entity Name	Sell		Entity Name	Purchase	
	(MU)	Percent (%)		(MU)	Percent (%)
Teesta -3	706.71	14.72%	West Bengal	650.53	13.55%
Himachal Pradesh	369.85	7.70%	Tamil Nadu	575.78	11.99%
Madhya Pradesh	264.91	5.52%	Telangana	418.20	8.71%
Maharashtra	186.33	3.88%	Bihar	379.32	7.90%
Assam	174.00	3.62%	Chhattisgarh	365.61	7.62%
Haryana	155.70	3.24%	Kerala	346.26	7.21%
Rajasthan	151.68	3.16%	Odisha	341.49	7.11%
AD Hydro	149.50	3.11%	Gujarat	310.79	6.47%
Costal Energen	148.85	3.10%	Andhra Pradesh	259.32	5.40%
Karnataka	107.79	2.25%	Uttar Pradesh	243.13	5.06%
Total	2,415.32	50.31%	Total	3,890.43	81.04%
Total Volume in PXs	4,800.76		Total Volume in PXs	4,800.76	

[Source: NLDC]

§: Although, the total cleared volume on both the PXs was 4,800.76 MU, due to real-time curtailment of 0.039 MU, the Final Scheduled Volume on PXs was 4,800.72 MU.