



सितंबर, 2019 की मासिक मार्केट मॉनिटरिंग रिपोर्ट

Monthly Market Monitoring Report

September, 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 September, 2019	3
5.	Definitions/ Terminologies used in the Report	6
TABLES		
1.	Table: 1 MCP of IEX and PXIL	1
2.	Table: 2 ACP of IEX	2
3.	Table: 3 Scheduled Volume of IEX and PXIL for September, 2019 vs September, 2018	2
FIGURES		
1.	Figure: 1 Comparison of Total Purchase, Sell bids along with FSV and Daily MCP	4
2.	Figure: 2 Comparison of Maximum, Minimum, Daily, Non Peak Time, Peak Time MCP (Rs/kWh)	4
ANNEXURES		
1.	Annexure-I: Final Scheduled Volume and the Average MCP in Day Ahead Market (DAM) for the months of April to September, 2019 of IEX and PXIL	7
2.	Annexure-II: Final Scheduled Volume in Term Ahead Market (TAM) for the months of April to September, 2019 of IEX and PXIL	8
3.	Annexure-III: All MCP viz: Peak Time MCP, Non-Peak MCP, Maximum MCP, Minimum MCP, Average MCP and Final Schedule Volume (MU)	9
4.	Annexure-IV: Comparison of MCP w.r.t. Purchase Bid for 2976 Time Blocks during the month of September, 2019	10
5.	Annexure-V: Max. FSV, Min FSV, Max MCP and Min MCP w.r.t all Time blocks	11
6.	Annexure-VI: Top Ten Entity (Sellers and Purchaser) during the month of September, 2019	12
APPENDIX		
1.	Appendix: Detailed analysis for change in trend of Final Schedule Volume and Daily MCP on Sundays during the Month of September, 2019	13

REPORT FOR MONTH: SEPTEMBER, 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 September 2019 was **3,488.60 MU**. The total energy supplied in the country during the month of September, 2019 was **1,07,515 MU**. The volume of electricity transacted on the power exchanges in DAM represents 3.25% of the total energy supplied in the country. The total volume of electricity transacted in September, 2018 was **5,741.25 MU** which was 5.28% of the total energy supplied [1,08,819 MU].
- 1.2. The volume of electricity transacted on IEX and PXIL during September, 2019 are 3,487.57 MU and 1.03 MU, respectively, which means that the total volume transacted on IEX is 99.97 % of the total volume on the power exchanges. The total volume of electricity transacted during September, 2018 on IEX and PXIL was 5,725.49 MU and 15.76 MU, respectively, which means that the total volume transacted on IEX is 99.73 % of the total volume on the power exchanges.
- 1.3. The Average Market Clearing Price (MCP) on IEX during the month September, 2019 was Rs 2.77/ kWh, which shows a decline of 40.94% when compared with average MCP for the month of September, 2018, which was Rs 4.69 /kWh. Similarly, on PXIL, the Average MCP during September, 2019 was Rs 2.85/kWh, which shows a decline of 20.83% when compared with average MCP for the month of September, 2018, which was Rs 3.60 kWh.

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

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

MCP (Rs/kWh)	IEX			PXIL		
	September, 2019	September, 2018	% Change	September, 2019	September, 2018	% Change
Minimum	2.15	2.49	- 13.65	2.51	2.54	-1.18
Maximum	3.34	7.09	- 52.89	3.15	6.21	- 49.28
Average	2.77	4.69	- 40.94	2.85	3.60	- 20.83

Table: 1

- 2.2. The Maximum Area Clearing Price (ACP) in IEX was observed in all regions at **Rs 6.73 /kWh** during the time block 22:00-22:15 on 13th September, 2019 whereas the MCP for this time-block was **Rs 4.17/ kWh** only, as there was congestion in transmission system. However, the Daily MCP on pan India basis on 13th September, 2019 was **Rs 3.34/ kWh**.
- 2.3. The Minimum ACP observed in IEX among all 13 bid areas was **Rs 1.00 /kWh** during the time block 13:15-13:30 on 8th September, 2019. As there was no congestion in transmission system, the MCP for this time-block was also **Rs 1.00/ kWh**. However, the Daily MCP on pan India basis on 8th September, 2019 was **Rs 2.31/ kWh**.
- 2.4. A comparison of the Minimum and Maximum ACP during the months of September, 2019 and September, 2018 in IEX are as given below:

ACP (Rs/kWh)	IEX		
	September, 2019	September, 2018	% Change
Minimum	1.00	1.75	- 42.86
Maximum	6.73	16.49	- 59.19

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 September, 2019 and September, 2018 are as given below:

Scheduled Volume (MU)	IEX			PXIL		
	September, 2019	September, 2018	% Change	September, 2019	September, 2018	% Change
Minimum	75.59	108.70	-30.46	0.079	0.04	97.50
Maximum	129.47	306.28	-57.73	0.116	4.80	-97.58
Average	116.25	190.85	-39.09	0.094	1.20	-92.17

Table: 3

- 2.6. The total volume of electricity transacted on both the power exchanges during the period, April to September, 2019, was 24,982.13 MU, which shows a decline of 9.92% as compared to volume of electricity transacted during the same period of 2018 (i.e. 27732.75 MU). A comparison of Final Scheduled Volume and the Average MCP for the period of April to September, 2019 of IEX and PXIL are given at **Annexure-I**.

3. TERM AHEAD MARKET (TAM)

- 3.1 The total **volume** of electricity transacted on both the power exchanges in term ahead market in September, 2019 was **744.78 MU** (i.e. 354.33 MU on IEX and 390.45 MU on PXIL), which means that the total volume transacted on IEX was 47.57% and PXIL was

52.43% of total volume in term ahead market in both the power exchanges. The total volume of electricity transacted during September, 2018 in term ahead market on IEX and PXIL was 266.81 MU (i.e. 209.85 MU on IEX and 56.96 MU on PXIL), which means that the total volume on IEX was 78.65% and PXIL was 21.35% of the total volume on the power exchanges.

- 3.2 With respect to the total energy supplied during the month of September, 2019 in the country the volume of electricity traded on the power exchanges in TAM represents **0.69%** of the total energy supplied. The same was 0.24% in September, 2018.
- 3.3 The Total Volume of electricity transacted on both the power exchanges during the period, April to September, 2019 in TAM, was 4440.78 MU. The same was 1161.53 MU during the same period of 2018, which shows an increase of 282.35%. A comparison of Final Scheduled Volume for the months of April to September, 2019 of IEX and PXIL are given at **Annexure-II**.

4. ANALYSIS OF MOVEMENT OF PRICES OBSERVED IN DAM DURING SEPTEMBER, 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 September 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, total purchase bid, total sell bid, coal generation, hydro generation, wind generation and solar generation.
- 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 hydro 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 total purchase bid and elasticity figure was around 0.56. In effect, the regression reveals that the most important variable which determines daily market clearing price is the total purchase bid in the month of September, 2019.
- 4.3 The regression analysis of the consolidated data for the period of July to September, 2019 also showed that the most significant variable was total purchase bid. The other variables were peak demand and solar generation. In the cumulative period, the coefficient of elasticity of the Daily MCP w.r.t. total Purchase Bid was 0.62.

4.4 The same relationship is visible from the analysis carried out from the plot in **Figure 1**.

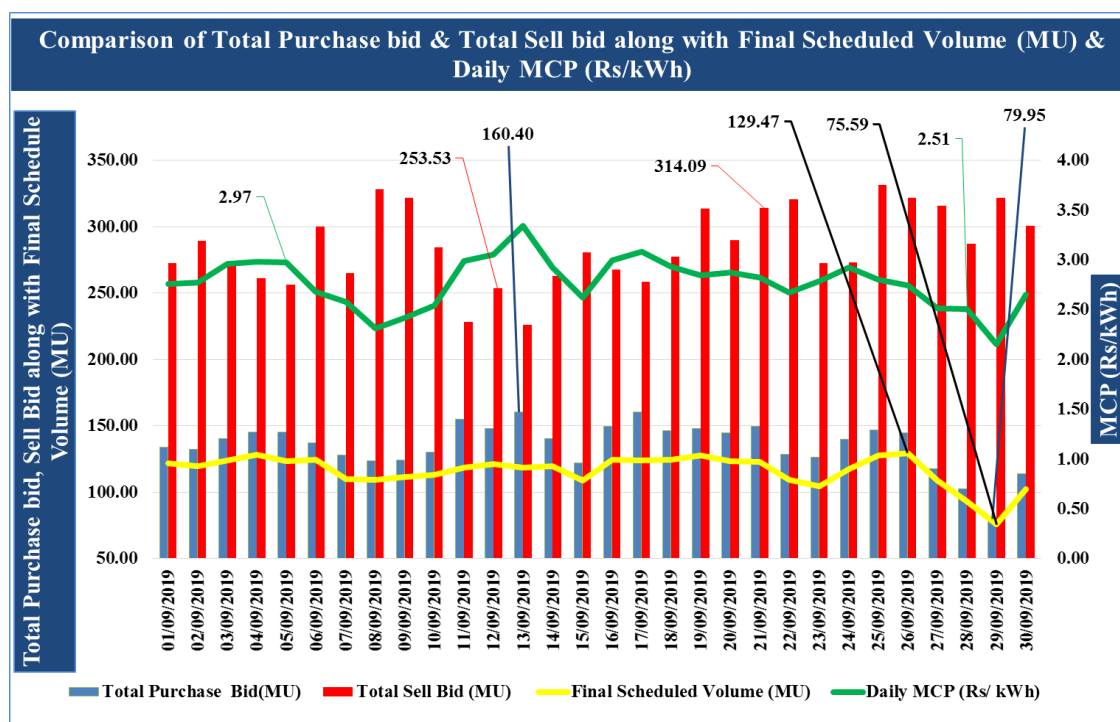


Figure -1

4.5 The Final Scheduled Volume (MU) and the Daily MCP (Rs/ kWh) invariably showed decreasing trend on Sundays as the demand of electricity in the country is less compared to other days of week [**Figure 1**]. However, in the month of September, 2019, it is observed that on Mondays (i.e. 2nd and 23rd September, 2019), FSV showed decreasing trend in comparison to Sundays (i.e. 1st and 22nd September, 2019). The detailed analysis on this is given at **Appendix**.

4.6 A comparison of maximum, minimum, daily, non-peak time, peak time MCP is shown in **Figure -2**. The same are also tabulated in **Annexure III**.

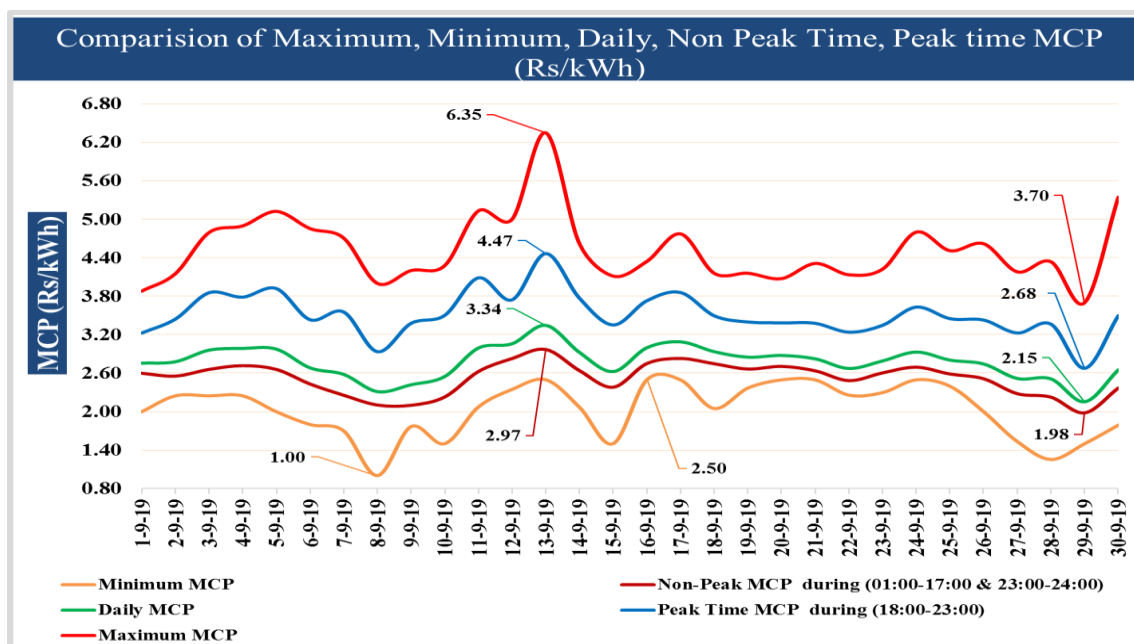


Figure -2

- 4.7 The Purchase Bids and the MCP discovered in each of the 15-minute time block during the month almost followed the same trend [**Annexure IV**]. This is also corroborated with the outcome of regression analysis mentioned in at para 4.1 and 4.2 above.
- 4.8 On 26 days during the month, the maximum daily MCP occurred during the **time block 18:45 – 20:00**. [**Annexure V**].
- 4.9 On 12 **days** during the month, the minimum FSV occurred during the **time period 05:45 to 06:15** [**Annexure V**].
- 4.10 The **maximum demand met** during the month of September 2019 in the country occurred on **9th September 2019 at 173.16 GW**, which is 1.38% less compared to maximum demand during the month of September, 2018 i.e. **175.59 GW** on **18th September, 2018**.
- 4.11 One nation One Price was observed for 17 days during the month, as there was transmission congestion on 13 days during the month.
- 4.12 There was no real time curtailment on IEX and PXIL in September, 2019. Also, there was no real time curtailment in September, 2018.
- 4.13 The cumulative real time curtailment of 12.68 MU was observed in DAM during the period April to September, 2019. During months of April to September, 2018 the real time curtailment was 72.84 MU in DAM. The month wise real time curtailment is given at **Annexure-I**
- 4.14 The **top 10 sellers** on the power exchanges during the month are: **Teesta -3, Madhya Pradesh, Karnataka, Himachal Pradesh, Telangana, Jharkhand, Sembcorp Gayatri, Assam, NLC TPS-II Stg-2 and Karcham Wangtoo**, which constituted 61.02% of the market share. [**Annexure VI**]
- 4.15 The **top 10 purchaser** on the power exchanges during the month are: **Maharashtra, Gujarat, Chhattisgarh, Bihar, Delhi, Uttar Pradesh, Dadra and Nagar Haveli, Odisha, Haryana and Telangana**, which constituted 70.88% of the market share. [**Annexure VI**]

Definitions/ Terminologies used in the Report

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.

1. **Daily MCP** is the average of MCP of all 96 Time Blocks during the day.
2. **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.
3. **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.
4. **Energy Supplied** is the total energy (MU) available at the States' periphery.
5. **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.
6. **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.

Final Scheduled Volume, Average MCP and Real Time Curtailment in Day Ahead Market (DAM) for the months of April to September, 2019 of IEX and PXIL

Months	Final Scheduled Volume (MU)		Market Clearing Price (Rs/kWh)		Real Time Curtailment (MU)	
	IEX	PXIL	IEX	PXIL	IEX	PXIL
April, 2019	4,005.41	31.43	3.22	3.75	3.09	-
May, 2019	3,772.47	1.17	3.34	3.45	0.217	-
June, 2019	4,206.68	0.42	3.32	3.48	4.91	-
July, 2019	4800.37	0.35	3.38	3.21	0.039	-
August, 2019	4674.88	0.35	3.32	3.10	4.42	-
September, 2019	3487.57	1.03	2.77	2.85	0	-
Total	24,947.38	34.75			12.676	-

[Source: IEX and PXIL]

- There is no real time curtailment happened in PXIL.

Final Scheduled Volume in Term Ahead Market (TAM) for the months of April to September, 2019 of IEX and PXIL

Months	Final Scheduled Volume (MU)		
	IEX	PXIL	Total
April, 2019	334.13	293.47	627.6
May, 2019	326.72	122.10	448.82
June, 2019	368.84	139.22	508.06
July, 2019	523.59	224.35	747.94
August,	808.07	555.51	1363.58
September,	354.33	390.45	744.78
Total	2715.68	1725.1	4440.78

[Source: IEX and PXIL]

Annexure-III

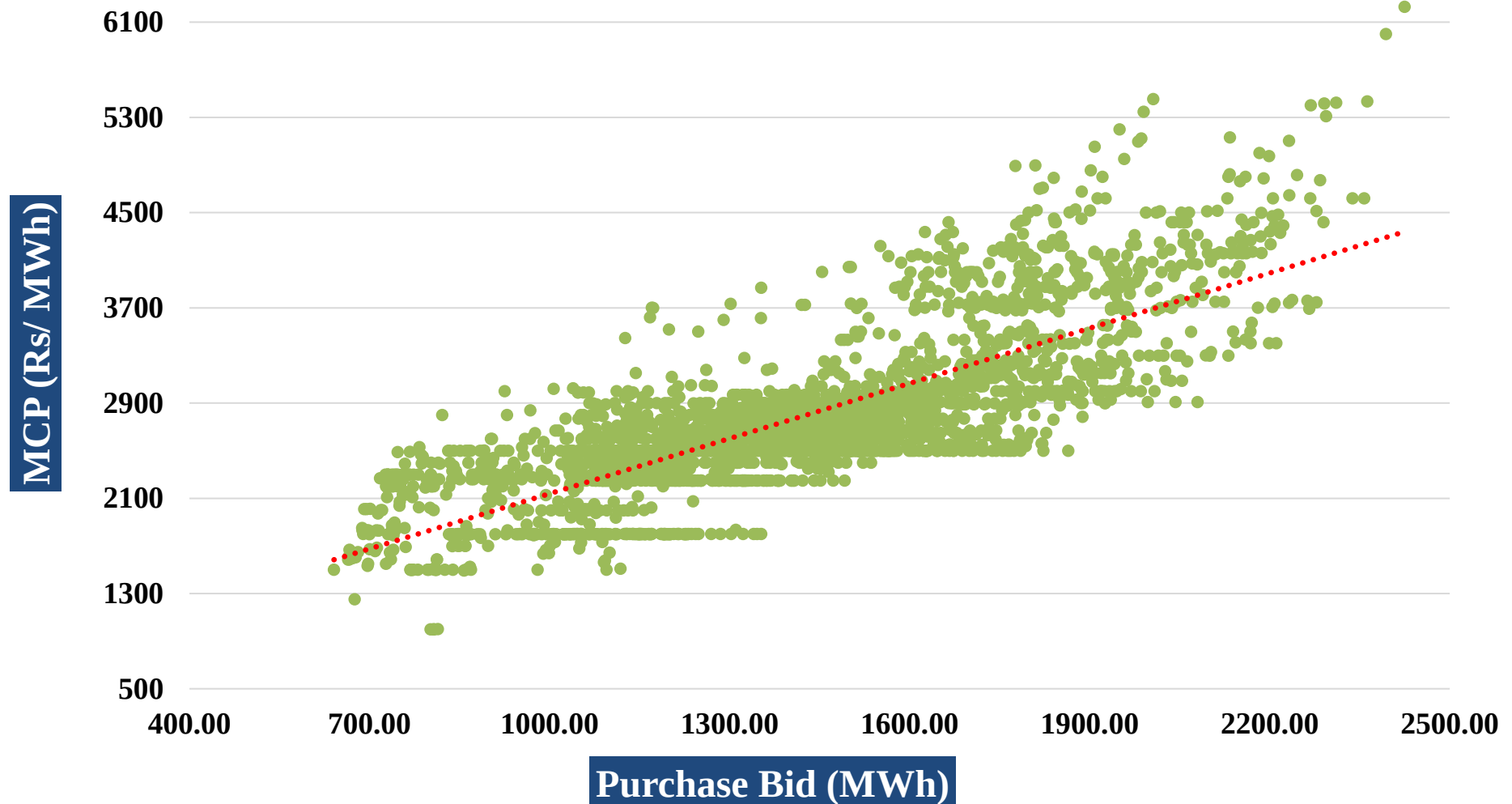
Date	MCP during (01:00-06:00, 23:00-24:00)	MCP during (07:00-10:00)	MCP during (11:00-17:00)	Peak Time MCP during (18:00-23:00)	Non-Peak MCP during (01:00-17:00 & 23:00-24:00)	Maximum MCP	Minimum MCP	Average MCP	Final Scheduled Volume (MU)
01-09-2019	3.02	2.55	2.21	3.23	2.60	3.88	2.00	2.76	121.80
02-09-2019	2.67	2.52	2.45	3.44	2.55	4.15	2.25	2.78	119.51
03-09-2019	2.67	2.56	2.70	3.85	2.66	4.79	2.25	2.96	123.99
04-09-2019	2.89	2.65	2.58	3.79	2.72	4.90	2.25	2.98	128.10
05-09-2019	2.86	2.65	2.46	3.92	2.66	5.12	2.00	2.97	123.22
06-09-2019	2.71	2.37	2.19	3.43	2.43	4.86	1.80	2.68	124.75
07-09-2019	2.69	2.11	1.90	3.55	2.26	4.71	1.70	2.58	110.13
08-09-2019	2.61	2.04	1.64	2.94	2.10	4.00	1.00	2.31	109.26
09-09-2019	2.43	1.91	1.88	3.38	2.10	4.20	1.77	2.42	111.36
10-09-2019	2.54	2.31	1.87	3.50	2.23	4.28	1.50	2.55	113.11
11-09-2019	2.86	2.64	2.38	4.09	2.62	5.13	2.07	2.99	118.36
12-09-2019	3.07	2.78	2.61	3.74	2.83	5.00	2.35	3.06	121.04
13-09-2019	3.19	2.85	2.82	4.47	2.97	6.35	2.50	3.34	118.53
14-09-2019	2.69	2.77	2.52	3.77	2.64	4.62	2.07	2.92	119.36
15-09-2019	2.77	2.35	2.01	3.35	2.38	4.11	1.50	2.62	108.58
16-09-2019	2.82	2.84	2.62	3.73	2.75	4.34	2.50	2.99	124.51
17-09-2019	2.98	2.90	2.64	3.86	2.83	4.77	2.50	3.09	123.98
18-09-2019	2.60	2.87	2.82	3.50	2.75	4.16	2.05	2.93	124.62
19-09-2019	2.58	2.80	2.66	3.40	2.66	4.16	2.37	2.85	127.49
20-09-2019	2.64	2.84	2.70	3.38	2.70	4.08	2.50	2.87	123.67
21-09-2019	2.61	2.81	2.57	3.38	2.64	4.31	2.50	2.82	123.14
22-09-2019	2.61	2.48	2.36	3.24	2.48	4.14	2.26	2.67	109.61
23-09-2019	2.49	2.68	2.68	3.35	2.60	4.22	2.30	2.79	104.61
24-09-2019	2.64	2.78	2.70	3.63	2.69	4.80	2.50	2.93	117.42
25-09-2019	2.51	2.79	2.55	3.45	2.59	4.51	2.40	2.80	127.95
26-09-2019	2.42	2.67	2.51	3.43	2.51	4.62	2.00	2.74	129.47
27-09-2019	2.02	2.46	2.43	3.23	2.28	4.18	1.53	2.52	108.84
28-09-2019	2.02	2.38	2.34	3.37	2.22	4.34	1.25	2.51	93.00
29-09-2019	2.14	2.28	1.65	2.68	1.98	3.70	1.50	2.15	75.59
30-09-2019	2.24	2.43	2.46	3.50	2.37	5.35	1.79	2.65	102.55
Maximum	3.19	2.90	2.82	4.47	2.97	6.35	2.50	3.34	129.47
Minimum	2.02	1.91	1.64	2.68	1.98	3.70	1.00	2.15	75.59
Average	2.63	2.57	2.40	3.52	2.53	4.53	2.03	2.77	116.25

MCP: Market Clearing Price (Rs/kWh)

FSV: Final Scheduled Volume (MU)

[Source: IEX]

Comparison of MCP w.r.t. Purchase Bid for 2880 Time Blocks during the month of September, 2019



Time Blocks during the Month [96 time blocks in a day x 30 days = 2,880]

Annexure-V

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
01-09-2019	20:15 - 20:30	1.68	20:45 - 21:00	3.88	05:45 - 06:00	0.98	13:30 - 13:45	2.00
02-09-2019	21:45 - 22:00	1.56	19:30 - 19:45	4.15	05:45 - 06:00	0.96	13:15 - 13:30	2.25
03-09-2019	23:15 - 23:30	1.56	20:30 - 20:45	4.79	06:00 - 06:15	0.97	08:30 - 08:45	2.25
04-09-2019	23:45 - 24:00	1.60	19:30 - 19:45	4.90	07:45 - 08:00	0.92	08:30 - 08:45	2.25
05-09-2019	23:00 - 23:15	1.73	19:30 - 19:45	5.12	07:45 - 08:00	0.91	08:30 - 08:45	2.00
06-09-2019	00:00 - 00:15	1.71	19:30 - 19:45	4.86	08:30 - 08:45	0.94	08:30 - 08:45	1.80
07-09-2019	21:15 - 21:30	1.51	19:30 - 19:45	4.71	08:30 - 08:45	0.83	07:00 - 07:15	1.70
08-09-2019	21:00 - 21:15	1.56	19:30 - 19:45	4.00	13:30 - 13:45	0.80	13:15 - 13:30	1.00
09-09-2019	00:00 - 00:15	1.44	19:30 - 19:45	4.20	05:45 - 06:00	0.82	05:45 - 06:00	1.77
10-09-2019	00:00 - 00:15	1.48	19:45 - 20:00	4.28	05:45 - 06:00	0.85	13:00 - 13:15	1.50
11-09-2019	20:30 - 20:45	1.52	19:15 - 19:30	5.13	05:45 - 06:00	0.89	13:15 - 13:30	2.07
12-09-2019	19:45 - 20:00	1.72	19:30 - 19:45	5.00	05:45 - 06:00	0.83	13:15 - 13:30	2.35
13-09-2019	23:15 - 23:30	1.48	19:15 - 19:30	6.35	05:45 - 06:00	0.85	05:45 - 06:00	2.50
14-09-2019	20:45 - 21:00	1.65	19:30 - 19:45	4.62	05:45 - 06:00	0.88	04:00 - 04:15	2.07
15-09-2019	21:45 - 22:00	1.60	19:30 - 19:45	4.11	05:45 - 06:00	0.89	13:30 - 13:45	1.50
16-09-2019	20:45 - 21:00	1.83	20:30 - 20:45	4.34	05:45 - 06:00	0.91	04:00 - 04:15	2.50
17-09-2019	19:45 - 20:00	1.57	19:30 - 19:45	4.77	05:45 - 06:00	1.07	05:00 - 05:15	2.50
18-09-2019	20:00 - 20:15	1.71	20:30 - 20:45	4.16	04:00 - 04:15	0.92	05:00 - 05:15	2.05
19-09-2019	19:15 - 19:30	1.63	19:15 - 19:30	4.16	03:45 - 04:00	0.95	03:45 - 04:00	2.37
20-09-2019	11:30 - 11:45	1.59	19:15 - 19:30	4.08	04:45 - 05:00	0.85	04:45 - 05:00	2.50
21-09-2019	11:15 - 11:30	1.62	19:15 - 19:30	4.31	03:45 - 04:00	0.86	03:45 - 04:00	2.50
22-09-2019	21:00 - 21:15	1.46	19:30 - 19:45	4.14	03:45 - 04:00	0.79	08:30 - 08:45	2.26
23-09-2019	11:15 - 11:30	1.39	19:15 - 19:30	4.22	03:45 - 04:00	0.59	04:45 - 05:00	2.30
24-09-2019	11:45 - 12:00	1.49	19:30 - 19:45	4.80	01:45 - 02:00	0.85	04:45 - 05:00	2.50
25-09-2019	18:30 - 18:45	1.68	19:00 - 19:15	4.51	04:15 - 04:30	0.90	04:15 - 04:30	2.40
26-09-2019	11:15 - 11:30	1.73	19:30 - 19:45	4.62	03:00 - 03:15	0.78	03:45 - 04:00	2.00
27-09-2019	11:45 - 12:00	1.51	19:15 - 19:30	4.18	03:00 - 03:15	0.67	03:45 - 04:00	1.53
28-09-2019	17:45 - 18:00	1.28	18:45 - 19:00	4.34	01:00 - 01:15	0.63	05:00 - 05:15	1.25
29-09-2019	18:45 - 19:00	1.09	19:00 - 19:15	3.70	01:45 - 02:00	0.60	13:15 - 13:30	1.50
30-09-2019	18:15 - 18:30	1.58	19:00 - 19:15	5.35	04:30 - 04:45	0.63	03:45 - 04:00	1.79

[Source: IEX]

MCP: Market Clearing Price (Rs/kWh)

FSV: Final Scheduled Volume (MU)

Top Ten Entity (Sellers and Purchaser) during the month of September, 2019

Entity Name	Sell		Entity Name	Purchase	
	(MU)	Percent (%)		(MU)	Percent (%)
Teesta -3	671.12	19.24%	Maharashtra	503.19	14.42%
Madhya Pradesh	360.91	10.35%	Gujarat	320.55	9.19%
Karnataka	240.47	6.89%	Chhattisgarh	296.76	8.51%
Himachal Pradesh	209.20	6.00%	Bihar	292.45	8.38%
Telangana	195.68	5.61%	Delhi	243.59	6.98%
Jharkhand	117.47	3.37%	Uttar Pradesh	208.37	5.97%
Sembcorp Gayatri	116.05	3.33%	Dadra & Nagar Haveli	166.34	4.77%
Assam	77.04	2.21%	Odisha	149.16	4.28%
NLC TPS-II Stg-2	70.98	2.03%	Haryana	148.56	4.26%
Karcham Wangtoo	69.84	2.00%	Telangana	143.61	4.12%
Total	2,128.74	61.02%	Total	2,472.56	70.88%
Total Volume in PXs	3,488.60		Total Volume in PXs	3,488.60	

[Source: POSOCO]

Analysis for change in trend of Final Scheduled Volume on 1st and 4th Monday of September, 2019 i.e. on 2nd and 23rd September, 2019

1. It has been observed that during the months of April to June, 2019, the Final Scheduled Volume (FSV) and Daily Market Clearing Price (MCP) invariably showed similar decreasing trend on Sundays and increasing trend on Mondays as demand is less on Sundays as compared to other days of the week. Further, in the month of July, 2019, it was observed that the FSV showed decreasing trend on Mondays and Tuesday instead of Sundays. Also in the month of August, 2019, FSV showed increasing trend on Sundays.
2. In the month of September, 2019, it is observed that on Mondays (i.e. 2nd and 23rd September, 2019), FSV showed decreasing trend in comparison to Sundays (i.e. 1st and 22nd September, 2019). On analysis of this variation in trends of FSV on 2nd and 23rd September, 2019, it has been observed as under:
 - (i) The volume of sell bid in the power exchange increased by 16.88 MU on 2nd (Monday) from 1st September, 2019. The volume of purchase bids decreased by 1.39 MU. Further, Hydro generation increased by 3.40 MU and Daily MCP increased by Rs 0.02/ kWh. These resulted in decrease in FSV by 2.29 MU.
 - (ii) On 23rd September, 2019 (i.e. Monday), though the energy met in the Country increased by 127 MU as compared to Sunday (i.e. 22nd September, 2019), the coal generation also increased by 151.15 MU which increased State's power availability. Due to this, FSV decreased by 5.00 MU on Monday (23rd September, 2019) as compared to Sunday (22nd September, 2019).

[Source: National Power Portal]