

## **MONTHLY REPORT ON SHORT-TERM TRANSACTIONS OF ELECTRICITY (November 2008)**

### **Introduction**

A Market Monitoring Cell (MMC) was set up in CERC in August 2008. As advised by the Steering Committee of MMC, MONTHLY REPORT ON SHORT-TERM TRANSACTIONS OF ELECTRICITY i.e. for the period from August to October 2008 was prepared and posted on the website of CERC. This is the report for the month of November 2008. The objective of the report is to see the trends in volume and price of the short-term transactions of electricity (i.e. the electricity transacted through Trading Licensees, Power Exchanges and Unscheduled Interchange) in India. The report is mainly based on the data collected from Inter-State Trading Licensees, Power Exchanges (Indian Energy Exchange Ltd and Power Exchange India Ltd) and National Load Despatch Centre (NLDC) as per the formats prescribed by MMC. The same has been analysed as below: -

### **I: Volume of Short-term Transactions of Electricity**

During the Month of November 2008, total electricity generation excluding generation from renewables and captive power plants in India was 58308.33 MUs. (Table-1).

Of the total electricity generation, 4703.29 MUs (8.07%) transacted through short-term i.e. 2547.24 MUs (4.37%) through Bilateral (through traders and direct between distribution companies), followed by 1686.01 MUs (2.89%) through Unscheduled Interchange (UI) and 470.05 MUs (0.81%) through Power Exchanges (IEX and PXIL) (Table-1).

Of the total short-term transactions, Bilateral constitute 54.16% (46.40% through traders and 7.76% direct between distribution companies) followed by 35.85% through UI and 9.99% through Power Exchanges (Table-1).

The volume of electricity transacted through IEX and PXIL respectively was 450.65 MUs and 19.40 MUs. The volume of total Buy bids and Sale bids was 983.23 MUs and 665.74 MUs respectively in IEX and 97.93 MUs and 37.14 MUs in PXIL. The gap between the volume of Buy bids and Sale bids shows that there was more demand for electricity and it was 1.48 times and 2.64 times the supply offered through IEX and PXIL respectively.

## **II: Price of Short-term Transactions of Electricity**

(1) *Price of electricity transacted through Traders:* Weighted average sale price has been computed for the electricity transacted through traders and it was Rs.7.98. The weighted average sale price also computed for the transactions during Round the clock (RTC), Peak and Off-Peak periods separately and the sale price was Rs.7.56, Rs.8.82 and Rs.8.35 respectively. Minimum and Maximum sale price was Rs.1.79 and Rs.9.72 respectively (Table-2 and 3).

(2) *Price of electricity transacted Through Power Exchange:* The Minimum, Maximum and Weighted Average Price has been computed for the volume transacted through IEX and PXIL separately. The Minimum, Maximum and Weighted Average Price was Rs.1.30, Rs.11.00 and 7.47 respectively in IEX and Rs.3.00, Rs.11.00 and Rs.7.22 respectively in PXIL (Table-4).

(3) *Price of electricity transacted Through UI:* All-India UI price has been computed for NEW Grid and SR Grid separately. The average UI price was Rs.5.33 in the NEW Grid and Rs.8.55 in the SR Grid. The power deficit is more in the Southern Region when compared with other regions, therefore, the UI price was higher in the SR Grid when compared with the UI price in the NEW Grid. Minimum and Maximum price of UI was Rs.0.56 and Rs.10.00 respectively in the New Grid and Rs.1.04 and Rs.10.00 respectively in the SR Grid (Table-5).

## **III: Volume of Short-term Transactions of Electricity (State-Wise):**

Of the total bilateral transactions, top 5 states selling 79.21% of the volume are Punjab, Chattisgarh, Delhi, Karnataka, and WB and top 5 states purchasing 79.33% of the volume are Rajasthan, MP, Maharashtra, AP and J&K (Table-6 & 7).

Of the total Power Exchange transactions, top 5 states selling 81.00% of the volume are WB, Punjab, Rajasthan, HP, and Gujarat and top 5 states purchasing 97.38% of the volume are AP, MP, Maharashtra, TN and Kerala (Table-8 & 9).

Of the total UI transactions, top 5 states exporting 53.48% of the volume are Rajasthan, Delhi, Chattisgarh, WB and DVC and top 5 states importing 56.89% of the volume are UP, TN, MP, Karnataka and Maharashtra (Table-10 & 11).

State-wise total net short-term transactions of electricity i.e. volume of net transactions through bilateral, power exchange and UI was shown in Table-12. Top 5 states those selling

electricity are Chattisgarh, Punjab, WB, Delhi and Karnataka and top 5 states those purchasing electricity are Rajasthan, MP, Maharashtra AP, and UP.

**IV: Key findings/Observations:**

- The percentage of short-term transactions of electricity (i.e. the electricity transacted through Trading Licensees, Power Exchanges and UI) to total electricity generation was 8.07%.
- The price of electricity transacted through Trading Licensees is comparable with the price of electricity transacted through Power Exchanges and UI. The price range was between Rs.7.00 - Rs.8.50 per KWh.
- The gap between the volume of Buy bids and Sale bids placed through Power Exchanges shows that there was more demand for electricity. The demand was 1.48 times and 2.64 times than the supply offered through IEX and PXIL respectively.

VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA) (MUs)					Total Electricity Generation (MUs) as given at CEA Website*
Month: November 2008					
Date	Bilateral		Power Exchanges (Market Clearing Volume)	Unscheduled Interchange (Over Drawl+Under Generation)	
	Through Traders	Direct			
1	64.33	7.93	19.14	53.29	1978.70
2	71.23	7.61	21.45	57.53	1935.45
3	64.24	8.74	18.54	56.28	1989.56
4	67.47	8.67	15.70	49.98	1994.53
5	76.27	8.99	14.75	49.82	2011.96
6	80.83	8.99	10.24	53.32	2018.17
7	83.77	10.64	11.89	53.79	2010.89
8	79.13	10.15	10.97	59.11	1993.95
9	84.50	10.51	15.22	63.57	1953.24
10	79.37	11.23	14.71	54.22	1991.09
11	79.44	15.73	15.17	50.23	1991.82
12	75.97	15.23	13.77	47.52	2006.12
13	76.32	12.32	14.44	50.07	1983.10
14	74.68	13.32	8.61	59.92	1980.61
15	73.80	11.01	16.65	64.64	1975.04
16	70.15	15.45	14.92	66.52	1915.27
17	69.83	11.78	15.09	64.89	1955.53
18	73.61	13.52	20.73	57.75	1953.00
19	71.79	13.03	21.46	55.33	1938.42
20	73.48	11.70	17.02	51.34	1920.41
21	72.49	11.78	15.04	54.97	1924.84
22	72.62	11.85	18.37	55.90	1934.12
23	69.93	13.73	21.36	62.34	1869.10
24	71.04	14.54	17.05	54.80	1899.20
25	72.47	15.01	17.58	47.25	1891.85
26	70.99	14.27	19.61	47.45	1886.75
27	70.40	13.82	14.02	53.63	1869.00
28	61.34	14.23	16.27	54.11	1869.45
29	64.87	14.84	12.09	64.56	1858.79
30	66.11	14.18	8.19	71.91	1808.37
Total	2182.46	364.78	470.05	1686.01	58308.33

Source: NLDC

\* Gross Electricity Generation excluding electricity generation from renewables and captive power plants

PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (Rs/KWh)												
Month: November 2008												
Market Segment	Power Exchange (IEX)			Power Exchange (PXIL)			Under Drawl/Over Drawl from the Grid (UI)					
Date	Minimum MCP	Maximum MCP	Weighted Average*	Minimum MCP	Maximum MCP	Weighted Average*	NEW Grid			SR Grid		
							Minimum Price	Maximum Price	Average Price**	Minimum Price	Maximum Price	Average Price**
01/11/08	3.71	8.05	6.80	7.35	11.00	8.27	2.48	8.20	5.08	1.84	10.00	8.43
02/11/08	3.99	8.05	6.73	0.00	0.00	0.00	2.08	8.74	4.91	1.20	9.46	6.50
03/11/08	3.88	8.05	6.67	0.00	0.00	0.00	1.76	8.74	5.20	6.04	10.00	9.09
04/11/08	4.08	8.13	6.96	4.00	7.10	6.37	2.16	8.74	5.94	7.12	10.00	9.55
05/11/08	4.00	8.15	7.29	4.00	7.10	6.35	2.32	9.10	5.85	6.40	10.00	9.60
06/11/08	4.10	9.40	8.12	0.00	0.00	0.00	2.48	9.28	6.06	3.52	10.00	9.52
07/11/08	6.00	8.49	8.12	0.00	0.00	0.00	2.40	9.10	6.01	6.22	10.00	9.55
08/11/08	6.50	8.50	8.21	6.00	8.40	7.68	2.32	8.74	6.52	6.58	10.00	9.74
09/11/08	7.00	8.52	8.22	6.50	8.30	8.30	1.92	10.00	6.07	4.06	10.00	9.31
10/11/08	7.00	9.30	8.32	8.25	8.25	8.25	3.34	9.28	6.56	2.48	10.00	9.24
11/11/08	5.00	9.30	8.15	7.00	8.25	8.22	3.88	10.00	7.21	6.94	10.00	9.74
12/11/08	4.69	9.30	8.21	7.00	8.40	8.30	3.88	10.00	7.53	7.30	10.00	9.76
13/11/08	6.50	9.60	8.58	5.00	8.40	8.30	2.32	10.00	6.17	5.68	10.00	9.66
14/11/08	8.50	9.80	9.19	0.00	0.00	0.00	2.00	8.74	5.50	4.24	10.00	9.57
15/11/08	6.00	9.80	8.68	8.00	8.65	8.55	1.60	8.92	5.41	1.68	10.00	8.55
16/11/08	5.25	9.50	8.26	0.00	0.00	0.00	0.80	6.58	3.14	1.28	10.00	6.21
17/11/08	3.50	9.80	7.17	0.00	0.00	0.00	0.80	8.02	4.35	1.92	10.00	8.51
18/11/08	3.50	9.00	7.06	5.00	8.50	7.97	2.24	10.00	5.80	2.64	10.00	9.30
19/11/08	4.92	9.50	7.25	3.00	7.50	5.66	2.08	10.00	6.30	2.98	10.00	9.14
20/11/08	4.94	9.35	7.60	0.00	0.00	0.00	1.52	8.74	5.11	3.88	10.00	8.92
21/11/08	5.30	10.00	7.77	4.00	7.50	6.60	1.68	8.56	4.74	2.24	10.00	9.08
22/11/08	5.38	9.50	7.69	6.50	9.90	6.50	1.84	7.48	4.91	2.00	10.00	8.28
23/11/08	5.17	9.40	7.43	5.50	8.40	6.70	0.88	6.94	3.31	1.04	10.00	5.94
24/11/08	3.50	9.40	6.86	5.50	9.30	8.00	0.80	8.38	4.78	1.12	10.00	7.53
25/11/08	3.50	9.40	6.85	5.00	9.40	6.81	2.00	9.46	5.86	2.80	10.00	8.91
26/11/08	4.00	10.00	6.89	5.00	9.40	6.78	0.96	9.46	6.09	2.64	10.00	8.71
27/11/08	4.00	11.00	7.48	0.00	10.00	6.64	0.80	7.66	3.90	1.20	10.00	6.69
28/11/08	2.50	9.70	7.25	5.00	9.40	7.59	0.56	7.66	3.99	1.60	10.00	7.00
29/11/08	2.00	8.90	6.40	0.00	9.50	7.85	1.12	7.48	4.20	2.32	10.00	7.59
30/11/08	1.30	7.00	4.69	3.79	8.70	6.71	1.12	7.12	3.43	2.08	10.00	6.86
	<b>1.30#</b>	<b>11.00#</b>	<b>7.47</b>	<b>3.00#</b>	<b>11.00#</b>	<b>7.22</b>	<b>0.56#</b>	<b>10.00#</b>	<b>5.33</b>	<b>1.04#</b>	<b>10.00#</b>	<b>8.55</b>

Source: Data on price of PX transactions from IEX and PXIL and data on UI Price from NLDC

\* Weighted average price computed based on Market Clearing Volume (MCV) and Market Clearing Price (MCP) for each hour of the day

\*\* Simple average price of UI of 96 time blocks of 15 minutes each in a day

# Maximum/Minimum in the month

VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (STATE-WISE) (MUs)										
Month: November 2008										
Name of the State/UT/Other Regional Entity	Through Bilateral			Through Power Exchange			Through UI with Regional Grid			Total Net**
	Sale	Purchase	Net*	Sale	Purchase	Net*	Export (Under Drawl)	Import (Over Drawl)	Net*	
Punjab	419.61	12.99	-406.62	113.18	0.00	-113.18	48.66	60.50	11.84	-507.97
Haryana	59.13	51.71	-7.42	5.69	0.00	-5.69	36.20	97.54	61.34	48.23
Rajasthan	23.35	895.48	872.13	39.48	0.00	-39.48	208.03	22.59	-185.44	647.21
Delhi	294.03	0.14	-293.89	13.40	0.00	-13.40	167.97	6.67	-161.30	-468.59
Uttar Pradesh	12.98	69.09	56.11	0.00	0.00	0.00	70.71	233.83	163.12	219.23
Uttarakhand	0.00	75.53	75.53	0.00	0.00	0.00	10.38	36.01	25.64	101.16
Himachal Pradesh	10.19	72.78	62.59	29.75	0.00	-29.75	13.36	29.78	16.42	49.26
J & K	0.00	150.13	150.13	0.00	0.00	0.00	34.22	25.01	-9.22	140.91
UT Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	15.88	1.72	-14.16	-14.16
MP	23.71	375.55	351.84	12.20	82.86	70.66	30.57	173.30	142.73	565.23
Maharashtra	69.50	370.47	300.97	1.58	78.57	77.00	46.29	152.81	106.51	484.49
Gujarat	0.00	110.88	110.88	19.89	1.56	-18.33	31.83	134.34	102.51	195.06
Chattisgarh	395.69	21.08	-374.61	14.56	0.00	-14.56	133.99	12.87	-121.12	-510.29
Daman and Diu	0.00	0.00	0.00	0.00	0.00	0.00	2.38	6.39	4.01	4.01
Dadra & Nagar Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.27	33.29	33.02	33.02
Andhra Pradesh	79.64	229.02	149.39	0.00	168.46	168.46	62.10	52.97	-9.13	308.71
Karnataka	259.25	24.33	-234.92	3.78	10.76	6.98	12.12	168.13	156.01	-71.94
Kerala	10.30	23.76	13.46	0.00	60.47	60.47	13.53	33.05	19.51	93.44
Tamilnadu	54.00	29.51	-24.49	0.00	67.37	67.37	18.48	179.16	160.68	203.56
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	6.37	4.91	-1.46	-1.46
Goa	0.00	24.89	24.89	3.52	0.00	-3.52	40.76	1.86	-38.91	-17.54
West Bengal	258.05	0.00	-258.05	155.66	0.00	-155.66	107.26	13.46	-93.80	-507.52
Orissa	30.61	0.00	-30.61	0.16	0.00	-0.16	17.59	28.15	10.56	-20.21
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	4.65	27.79	23.13	23.13
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	32.32	15.54	-16.79	-16.79
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	4.14	8.16	4.02	4.02
DVC	5.74	3.51	-2.23	0.00	0.00	0.00	77.57	9.98	-67.59	-69.81
Arunachal Pradesh	9.05	0.00	-9.05	0.00	0.00	0.00	1.72	5.76	4.04	-5.02
Assam	1.11	0.00	-1.11	14.40	0.00	-14.40	33.00	2.56	-30.44	-45.95
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	5.09	3.90	-1.19	-1.19
Meghalaya	1.66	0.00	-1.66	0.00	0.00	0.00	3.91	4.84	0.93	-0.73
Mizoram	0.00	0.00	0.00	0.95	0.00	-0.95	1.58	2.20	0.62	-0.33
Nagaland	13.68	0.00	-13.68	0.00	0.00	0.00	1.05	4.42	3.37	-10.31
Tripura	22.40	6.40	-16.01	13.73	0.00	-13.73	5.19	1.24	-3.95	-33.69

Source: NLDC

\* (-) indicates sale and (+) indicates purchase

\*\* Total net includes net of transactions through bilateral, power exchange and UI

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF POWER (ALL INDIA)				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	2547.24	54.16%	4.37%
	(i) Through Traders	2182.46	46.40%	3.74%
	(ii) Direct	364.78	7.76%	0.63%
2	Through Power Exchange	470.05	9.99%	0.81%
3	Through UI	1686.01	35.85%	2.89%
	<b>Total</b>	<b>4703.29</b>	100.00%	8.07%
	<b>Total Generation</b>	<b>58308.33</b>		

Source: NLDC

Table-2: PRICE OF POWER TRANSACTED THROUGH TRADERS		
Sr.No	Period of Trade	Weighted Average Sale Price (Rs)
1	RTC	7.56
2	PEAK	8.82
3	OFF PEAK	8.35
	<b>Total</b>	<b>7.98</b>

Source: Information submitted by trading licensees

Table-3: PRICE OF POWER TRANSACTED THROUGH TRADERS		
Sr.No		Sale Price (Rs/KWh)
1	Minimum	1.79
2	Maximum	9.72
3	Weighted Average	7.98

Source: Information submitted by trading licensees

Table-4: PRICE OF POWER TRANSACTED THROUGH POWER EXCHANGE (Rs/KWh)			
Sr.No	MCP	IEX	PXIL
1	Minimum	1.30	3.00
2	Maximum	11.00	11.00
3	Weighted Average	7.47	7.22

Source: Information submitted by IEX and PXIL

Table-5: PRICE OF POWER TRANSACTED THROUGH UI (Rs/KWh)			
Sr.No		NEW Grid	SR Grid
1	Minimum	0.56	1.04
2	Maximum	10.00	10.00
3	Average	5.33	8.55

Source: NLDC

<b>Table-6: VOLUME OF ELECTRICITY SALE BY STATES THROUGH BILATERAL</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
Punjab	419.61	20.43%
Chattisgarh	395.69	19.27%
Delhi	294.03	14.32%
Karnataka	259.25	12.62%
West Bengal	258.05	12.57%
Andhra Pradesh	79.64	3.88%
Maharashtra	69.50	3.38%
Haryana	59.13	2.88%
Tamilnadu	54.00	2.63%
Orissa	30.61	1.49%
MP	23.71	1.15%
Rajasthan	23.35	1.14%
Tripura	22.40	1.09%
Nagaland	13.68	0.67%
Uttar Pradesh	12.98	0.63%
Kerala	10.30	0.50%
Himachal Pradesh	10.19	0.50%
Arunachal Pradesh	9.05	0.44%
DVC	5.74	0.28%
Meghalaya	1.66	0.08%
Assam	1.11	0.05%
Uttarakhand	0.00	0.00%
J & K	0.00	0.00%
UT Chandigarh	0.00	0.00%
Gujarat	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Pondicherry	0.00	0.00%
Goa	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
Sikkim	0.00	0.00%
Manipur	0.00	0.00%
Mizoram	0.00	0.00%
<b>Total</b>	<b>2053.68</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>1626.63</b>	<b>79.21%</b>

<b>Table-7: VOLUME OF ELECTRICITY PURCHASE BY STATES THROUGH BILATERAL</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
Rajasthan	895.48	35.16%
MP	375.55	14.74%
Maharashtra	370.47	14.54%
Andhra Pradesh	229.02	8.99%
J & K	150.13	5.89%
Gujarat	110.88	4.35%
Uttarakhand	75.53	2.96%
Himachal Pradesh	72.78	2.86%
Uttar Pradesh	69.09	2.71%
Haryana	51.71	2.03%
Tamilnadu	29.51	1.16%
Goa	24.89	0.98%
Karnataka	24.33	0.96%
Kerala	23.76	0.93%
Chattisgarh	21.08	0.83%
Punjab	12.99	0.51%
Tripura	6.40	0.25%
DVC	3.51	0.14%
Delhi	0.14	0.01%
UT Chandigarh	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Pondicherry	0.00	0.00%
West Bengal	0.00	0.00%
Orissa	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
Sikkim	0.00	0.00%
Arunachal Pradesh	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Meghalaya	0.00	0.00%
Mizoram	0.00	0.00%
Nagaland	0.00	0.00%
<b>Total</b>	<b>2547.24</b>	<b>100.00%</b>
<b>Volume of purchase by top 5 States</b>	<b>2020.65</b>	<b>79.33%</b>

<b>Table-8: VOLUME OF ELECTRICITY SALE BY STATES THROUGH POWER EXCHANGE</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
West Bengal	155.66	35.22%
Punjab	113.18	25.61%
Rajasthan	39.48	8.93%
Himachal Pradesh	29.75	6.73%
Gujarat	19.89	4.50%
Chattisgarh	14.56	3.30%
Assam	14.40	3.26%
Tripura	13.73	3.11%
Delhi	13.40	3.03%
MP	12.20	2.76%
Haryana	5.69	1.29%
Karnataka	3.78	0.86%
Goa	3.52	0.80%
Maharashtra	1.58	0.36%
Mizoram	0.95	0.21%
Orissa	0.16	0.04%
Uttar Pradesh	0.00	0.00%
Uttarakhand	0.00	0.00%
J & K	0.00	0.00%
UT Chandigarh	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Andhra Pradesh	0.00	0.00%
Kerala	0.00	0.00%
Tamilnadu	0.00	0.00%
Pondicherry	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
Sikkim	0.00	0.00%
DVC	0.00	0.00%
Arunachal Pradesh	0.00	0.00%
Manipur	0.00	0.00%
Meghalaya	0.00	0.00%
Nagaland	0.00	0.00%
<b>Total</b>	<b>441.94</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>357.98</b>	<b>81.00%</b>

<b>Table-9: VOLUME OF ELECTRICITY PURCHASE BY STATES THROUGH POWER EXCHANGE</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
Andhra Pradesh	168.46	35.84%
MP	82.86	17.63%
Maharashtra	78.57	16.72%
Tamilnadu	67.37	14.33%
Kerala	60.47	12.86%
Karnataka	10.76	2.29%
Gujarat	1.56	0.33%
Punjab	0.00	0.00%
Haryana	0.00	0.00%
Rajasthan	0.00	0.00%
Delhi	0.00	0.00%
Uttar Pradesh	0.00	0.00%
Uttarakhand	0.00	0.00%
Himachal Pradesh	0.00	0.00%
J & K	0.00	0.00%
UT Chandigarh	0.00	0.00%
Chattisgarh	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Pondicherry	0.00	0.00%
Goa	0.00	0.00%
West Bengal	0.00	0.00%
Orissa	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
Sikkim	0.00	0.00%
DVC	0.00	0.00%
Arunachal Pradesh	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Meghalaya	0.00	0.00%
Mizoram	0.00	0.00%
Nagaland	0.00	0.00%
Tripura	0.00	0.00%
<b>Total</b>	<b>470.05</b>	<b>100.00%</b>
<b>Volume of purchase by top 5 States</b>	<b>457.73</b>	<b>97.38%</b>

<b>Table-10: VOLUME OF ELECTRICITY EXPORT BY STATES THROUGH UI</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Export (MUs)</b>	<b>% of Volume</b>
Rajasthan	208.03	16.01%
Delhi	167.97	12.93%
Chattisgarh	133.99	10.31%
West Bengal	107.26	8.26%
DVC	77.57	5.97%
Uttar Pradesh	70.71	5.44%
Andhra Pradesh	62.10	4.78%
Punjab	48.66	3.75%
Maharashtra	46.29	3.56%
Goa	40.76	3.14%
Haryana	36.20	2.79%
J & K	34.22	2.63%
Assam	33.00	2.54%
Jharkhand	32.32	2.49%
Gujarat	31.83	2.45%
MP	30.57	2.35%
Tamilnadu	18.48	1.42%
Orissa	17.59	1.35%
UT Chandigarh	15.88	1.22%
Kerala	13.53	1.04%
Himachal Pradesh	13.36	1.03%
Karnataka	12.12	0.93%
Uttarakhand	10.38	0.80%
Pondicherry	6.37	0.49%
Tripura	5.19	0.40%
Manipur	5.09	0.39%
Bihar	4.65	0.36%
Sikkim	4.14	0.32%
Meghalaya	3.91	0.30%
Daman and Diu	2.38	0.18%
Arunachal Pradesh	1.72	0.13%
Mizoram	1.58	0.12%
Nagaland	1.05	0.08%
Dadra & Nagar Haveli	0.27	0.02%
<b>Total</b>	<b>1299.21</b>	<b>100.00%</b>
<b>Volume of Export by top 5 States</b>	<b>694.83</b>	<b>53.48%</b>

<b>Table-11: VOLUME OF ELECTRICITY IMPORT BY STATES THROUGH UI</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Import (MUs)</b>	<b>% of Volume</b>
Uttar Pradesh	233.83	14.66%
Tamilnadu	179.16	11.23%
MP	173.30	10.87%
Karnataka	168.13	10.54%
Maharashtra	152.81	9.58%
Gujarat	134.34	8.42%
Haryana	97.54	6.12%
Punjab	60.50	3.79%
Andhra Pradesh	52.97	3.32%
Uttarakhand	36.01	2.26%
Dadra & Nagar Haveli	33.29	2.09%
Kerala	33.05	2.07%
Himachal Pradesh	29.78	1.87%
Orissa	28.15	1.77%
Bihar	27.79	1.74%
J & K	25.01	1.57%
Rajasthan	22.59	1.42%
Jharkhand	15.54	0.97%
West Bengal	13.46	0.84%
Chattisgarh	12.87	0.81%
DVC	9.98	0.63%
Sikkim	8.16	0.51%
Delhi	6.67	0.42%
Daman and Diu	6.39	0.40%
Arunachal Pradesh	5.76	0.36%
Pondicherry	4.91	0.31%
Meghalaya	4.84	0.30%
Nagaland	4.42	0.28%
Manipur	3.90	0.24%
Assam	2.56	0.16%
Mizoram	2.20	0.14%
Goa	1.86	0.12%
UT Chandigarh	1.72	0.11%
Tripura	1.24	0.08%
<b>Total</b>	<b>1594.74</b>	<b>100.00%</b>
<b>Volume of Export by top 5 States</b>	<b>907.23</b>	<b>56.89%</b>

<b>Table-12: TOTAL NET SHORT-TERM TRANSACTIONS (STATE-WISE)</b>		
<b>Sr.No</b>	<b>Name of the State/UT/Other Regional Entity</b>	<b>Total short-term transactions*</b>
1	Rajasthan	647.21
2	MP	565.23
3	Maharashtra	484.49
4	Andhra Pradesh	308.71
5	Uttar Pradesh	219.23
6	Tamilnadu	203.56
7	Gujarat	195.06
8	J & K	140.91
9	Uttarakhand	101.16
10	Kerala	93.44
11	Himachal Pradesh	49.26
12	Haryana	48.23
13	Dadra & Nagar Haveli	33.02
14	Bihar	23.13
15	Sikkim	4.02
16	Daman and Diu	4.01
17	Mizoram	-0.33
18	Meghalaya	-0.73
19	Manipur	-1.19
20	Pondicherry	-1.46
21	Arunachal Pradesh	-5.02
22	Nagaland	-10.31
23	UT Chandigarh	-14.16
24	Jharkhand	-16.79
25	Goa	-17.54
26	Orissa	-20.21
27	Tripura	-33.69
28	Assam	-45.95
29	DVC	-69.81
30	Karnataka	-71.94
31	Delhi	-468.59
32	West Bengal	-507.52
33	Punjab	-507.97
34	Chattisgarh	-510.29
* Total net short-term transactions includes net of transactions through bilateral, power exchange and UI		
(-) indicates sale and (+) indicates purchase		

