

**MONTHLY REPORT ON  
SHORT-TERM TRANSACTIONS OF ELECTRICITY  
(December 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 November 2008 was prepared and posted on the website of CERC. This is the report for the month of December 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 December 2008, total electricity generation excluding generation from renewables and captive power plants in India was 59635.41 MUs. (Table-1).

Of the total electricity generation, 4833.13 MUs (8.10%) transacted through short-term i.e. 2699.06 MUs (4.53%) through Bilateral (through traders and direct between distribution companies), followed by 1765.08 MUs (2.96%) through Unscheduled Interchange (UI) and 369.00 MUs (0.62%) through Power Exchanges (IEX and PXIL) (Table-1).

Of the total short-term transactions, Bilateral constitute 55.84% (45.03% through traders and 10.81% direct between distribution companies) followed by 36.52% through UI and 7.63% through Power Exchanges (Table-1).

The volume of electricity transacted through IEX and PXIL respectively was 354.09 MUs and 14.90 MUs. The volume of total Buy bids and Sale bids was 602.56 MUs and 582.07 MUs respectively in IEX and 47.02 MUs and 54.25 MUs in PXIL. The volume of Buy bids is slightly more when compared with the volume of sale bids in IEX which shows that there is more demand for electricity (1.04 times) than the supply offered through IEX. The

volume of Buy bids is less when compared with the volume of sale bids in PXIL which shows that there is less demand for electricity (0.87 times) than supply offered through PXIL.

## **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.7.89. 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.7.77, Rs.8.37 and Rs.8.04 respectively. Minimum and Maximum sale price was Rs.2.04 and Rs.9.54 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.0.96, Rs.9.50 and 6.64 respectively in IEX and Rs.3.75, Rs.9.10 and Rs.6.58 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.4.89 in the NEW Grid and Rs.7.66 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.0.24 and Rs.9.64 respectively in the New Grid and Rs.0.00 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 71.62% of the volume are Chattisgarh, Delhi, Punjab, WB and Gujarat and top 5 states purchasing 74.26% of the volume are Rajasthan, AP, Maharashtra, MP and J&K (Table-6 & 7).

Of the total Power Exchange transactions, top 5 states selling 86.77% of the volume are WB, Delhi, Rajasthan, Gujarat and Chattisgarh and top 5 states purchasing 99.87% of the volume are AP, TN, Kerala, Maharashtra and MP (Table-8 & 9).

Of the total UI transactions, top 5 states exporting 51.50% of the volume are UP, Delhi, WB, Rajasthan and Chattisgarh and top 5 states importing 55.99% of the volume are MP, Maharashtra, Karnataka, Haryana and Rajasthan (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 WB, Delhi, Chattisgarh, Punjab and DVC and top 5 states those purchasing electricity are Rajasthan, MP, Maharashtra AP and J&K.

#### **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 8.10%.
- 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.6.50 - Rs.8.00 per KWh.
- The gap between the volume of Buy bids and sale bids placed through power exchange shows that there was more demand (1.04 times) when compared with the supply offered through IEX and it was less demand (0.87 times) when compared with the supply offered through PXIL.

<b>VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA) (MUs)</b>						<b>Total Electricity Generation (MUs) as given at CEA Website*</b>
<b>Month: December 2008</b>						
<b>Date</b>	<b>Bilateral</b>		<b>Power Exchange (Market Clearing Volume)</b>		<b>Unscheduled Interchange (Over Drawl+Under Generation)</b>	
	<b>Through Traders</b>	<b>Direct</b>	<b>IEX</b>	<b>PXI</b>		
1	60.36	17.29	8.24	0.20	65.64	1830.39
2	61.87	16.47	11.76	3.40	60.00	1876.25
3	69.23	16.44	12.70	0.84	51.73	1894.25
4	67.95	14.50	12.13	0.20	58.23	1912.92
5	67.97	14.53	12.92	0.15	54.19	1898.89
6	69.36	14.56	11.67	0.65	57.00	1902.00
7	70.90	13.95	11.19	0.00	67.12	1893.78
8	71.35	14.91	12.40	0.00	61.61	1883.67
9	77.05	16.36	14.74	0.00	65.82	1918.96
10	74.37	15.67	15.01	0.00	57.41	1907.26
11	73.51	17.04	16.84	0.23	54.71	1938.60
12	74.05	16.98	15.46	0.18	50.86	1957.69
13	76.09	15.80	18.33	0.07	59.19	1944.65
14	72.31	14.98	9.88	0.43	66.18	1871.18
15	75.91	15.56	10.89	0.07	53.65	1932.04
16	74.05	17.52	10.81	0.27	55.81	1917.13
17	73.28	17.32	10.53	0.55	54.04	1920.82
18	68.26	17.14	11.15	0.37	53.09	1926.11
19	69.49	17.30	11.30	0.00	54.76	1926.94
20	69.93	17.45	12.54	0.16	59.83	1929.92
21	66.14	18.86	12.06	0.28	62.48	1886.44
22	67.41	18.42	9.34	0.54	58.78	1944.16
23	71.22	17.53	7.86	0.57	52.66	1958.34
24	69.66	17.78	12.86	0.79	44.48	1948.83
25	69.12	19.34	12.14	1.12	54.41	1969.80
26	67.79	17.20	9.98	0.50	56.90	1970.33
27	69.41	18.64	8.26	0.13	54.70	1965.17
28	68.96	17.65	10.84	0.99	58.36	1924.75
29	70.31	17.62	7.09	0.84	55.16	1936.37
30	68.88	18.90	7.52	0.85	52.88	1964.26
31	70.34	18.83	5.67	0.54	53.41	1983.51
<b>Total</b>	<b>2176.53</b>	<b>522.52</b>	<b>354.09</b>	<b>14.90</b>	<b>1765.08</b>	<b>59635.41</b>

Source: NLDC

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

PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (Rs/KWh)												
Month: December 2008												
Market Segment	Power Exchange (IEX)			Power Exchange (PXIL)			Under Drawl/Over Drawl from the Grid (UI)					
	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**
01/12/08	1.07	8.50	6.24	4.50	7.00	4.68	0.88	8.20	4.66	1.92	10.00	8.02
02/12/08	1.20	9.00	6.35	4.00	8.30	6.72	1.52	8.38	5.47	3.52	10.00	8.43
03/12/08	2.24	9.00	6.76	4.50	9.10	7.58	2.32	8.74	6.13	5.86	10.00	8.88
04/12/08	2.22	9.00	6.83	0.00	7.50	5.00	2.40	9.46	6.16	4.60	10.00	9.05
05/12/08	3.00	9.10	7.06	0.00	7.70	4.50	1.84	9.64	5.87	2.72	10.00	8.55
06/12/08	3.90	9.50	6.97	0.00	7.00	4.62	2.16	8.38	6.00	1.92	10.00	8.11
07/12/08	3.48	8.05	6.12	0.00	0.00	0.00	1.52	8.02	4.98	1.52	10.00	8.18
08/12/08	2.22	9.50	6.76	0.00	0.00	0.00	0.72	8.92	4.59	0.56	10.00	7.32
09/12/08	2.19	9.00	6.82	0.00	0.00	0.00	1.04	7.84	3.76	1.60	10.00	7.13
10/12/08	2.17	9.10	1.02	0.00	0.00	0.00	1.44	8.92	5.36	1.92	10.00	8.16
11/12/08	2.15	9.15	7.19	4.50	8.00	7.00	1.84	8.56	5.02	1.92	10.00	8.08
12/12/08	2.15	9.15	7.04	0.00	8.00	5.14	1.12	8.20	4.77	1.68	10.00	8.64
13/12/08	2.15	9.07	7.04	0.00	7.90	5.20	1.36	9.10	5.09	1.84	10.00	7.80
14/12/08	0.96	7.50	5.39	4.00	8.50	4.97	0.72	8.74	4.14	0.40	10.00	6.10
15/12/08	2.11	9.30	6.56	0.00	7.05	4.50	0.72	9.10	5.05	0.64	10.00	7.36
16/12/08	2.85	9.50	6.72	0.00	8.00	5.45	0.88	8.56	5.00	1.60	10.00	7.70
17/12/08	2.30	9.50	6.67	0.00	8.00	4.98	0.48	9.64	5.12	1.20	10.00	7.35
18/12/08	2.50	9.00	6.74	3.75	8.00	4.84	0.72	8.74	5.29	0.48	10.00	6.98
19/12/08	2.30	9.10	7.36	0.00	0.00	0.00	0.72	9.64	5.17	0.00	10.00	6.89
20/12/08	1.10	9.00	7.52	0.00	8.00	5.50	0.64	9.10	4.42	2.24	10.00	7.70
21/12/08	1.05	8.05	6.39	0.00	8.00	5.21	1.12	9.10	4.28	1.44	10.00	6.59
22/12/08	1.80	9.50	7.18	0.00	7.50	6.09	0.24	8.02	4.16	0.96	10.00	7.26
23/12/08	2.10	9.50	7.15	0.00	8.00	7.56	0.96	8.02	5.21	2.40	10.00	8.08
24/12/08	2.00	9.10	7.37	0.00	8.01	7.17	1.20	8.92	5.85	1.68	10.00	8.09
25/12/08	1.70	8.05	7.07	0.00	8.00	7.71	1.20	8.74	4.54	1.68	10.00	7.01
26/12/08	1.75	8.50	7.29	0.00	8.04	8.04	0.48	7.84	3.98	1.44	10.00	7.23
27/12/08	1.75	8.50	7.23	0.00	4.50	4.50	1.20	6.76	3.82	2.00	10.00	7.67
28/12/08	1.65	8.00	6.65	0.00	7.75	6.36	0.80	6.58	3.06	0.88	10.00	6.74
29/12/08	1.65	8.50	7.12	0.00	8.15	7.52	0.64	9.10	4.44	1.04	10.00	7.21
30/12/08	3.70	8.60	7.46	0.00	8.10	7.69	0.56	8.02	4.66	0.40	10.00	7.13
31/12/08	3.48	8.60	7.44	0.00	8.05	7.34	1.20	9.28	5.54	1.20	10.00	8.15
	<b>0.96#</b>	<b>9.50#</b>	<b>6.64</b>	<b>3.75#</b>	<b>9.10#</b>	<b>6.58</b>	<b>0.24#</b>	<b>9.64#</b>	<b>4.89</b>	<b>0.00#</b>	<b>10.00#</b>	<b>7.66</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: December 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	359.51	7.46	-352.05	5.06	0.00	-5.06	48.73	96.83	48.10	-309.01
Haryana	137.76	44.64	-93.12	0.00	0.00	0.00	10.56	163.72	153.16	60.05
Rajasthan	36.74	637.02	600.28	27.94	0.48	-27.46	101.07	119.05	17.98	590.80
Delhi	364.38	14.99	-349.39	69.23	0.00	-69.23	155.22	15.61	-139.62	-558.23
Uttar Pradesh	19.83	71.47	51.64	0.00	0.00	0.00	192.39	35.44	-156.96	-105.32
Uttarakhand	0.00	126.15	126.15	0.00	0.00	0.00	21.70	23.58	1.87	128.02
Himachal Pradesh	7.46	161.23	153.77	7.83	0.00	-7.83	37.03	10.38	-26.65	119.30
J & K	0.00	232.81	232.81	0.00	0.00	0.00	71.87	14.17	-57.69	175.12
UT Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	13.32	3.04	-10.28	-10.28
MP	13.13	329.05	315.92	4.97	19.36	14.40	25.83	279.77	253.94	584.25
Maharashtra	73.12	391.75	318.63	5.50	51.29	45.79	18.32	237.99	219.66	584.08
Gujarat	174.97	64.36	-110.62	25.89	0.00	-25.89	41.25	113.15	71.90	-64.61
Chattisgarh	433.76	3.36	-430.40	19.68	0.00	-19.68	87.81	64.59	-23.22	-473.30
Daman and Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.97	11.27	10.30	10.30
Dadra & Nagar Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.31	39.28	38.97	38.97
Andhra Pradesh	77.52	413.63	336.11	0.00	149.80	149.80	38.46	94.06	55.60	541.51
Karnataka	35.38	11.26	-24.12	0.00	0.00	0.00	9.37	168.52	159.15	135.03
Kerala	0.00	40.62	40.62	0.00	66.66	66.66	13.82	33.80	19.98	127.26
Tamilnadu	111.43	134.23	22.80	0.00	81.41	81.41	40.41	83.14	42.72	146.93
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	13.18	1.67	-11.51	-11.51
Goa	0.00	7.20	7.20	7.22	0.00	-7.22	29.40	1.80	-27.60	-27.62
West Bengal	303.78	0.00	-303.78	146.43	0.00	-146.43	143.70	8.72	-134.98	-585.19
Orissa	31.50	0.00	-31.50	0.68	0.00	-0.68	30.34	22.51	-7.83	-40.01
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	8.71	23.93	15.22	15.22
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	31.43	12.26	-19.17	-19.17
Sikkim	25.91	0.00	-25.91	0.00	0.00	0.00	5.57	4.47	-1.10	-27.01
DVC	50.14	0.00	-50.14	0.00	0.00	0.00	81.09	19.12	-61.97	-112.10
Arunachal Pradesh	4.49	0.00	-4.49	0.00	0.00	0.00	1.53	6.37	4.83	0.34
Assam	0.00	0.00	0.00	5.09	0.00	-5.09	29.63	2.23	-27.40	-32.49
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	5.77	4.42	-1.35	-1.35
Meghalaya	0.00	1.11	1.11	0.00	0.00	0.00	3.13	8.31	5.18	6.29
Mizoram	0.00	0.57	0.57	0.00	0.00	0.00	0.91	3.50	2.59	3.16
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	2.83	2.51	-0.32	-0.32
Tripura	23.94	6.17	-17.77	7.74	0.00	-7.74	5.14	1.63	-3.50	-29.02

Source: NLDC

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

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

<b>Sr.No</b>	<b>Short-term transactions</b>	<b>Volume (MUs)</b>	<b>% to Volume of short-term transactions</b>	<b>% to Total Generation</b>
1	Bilateral	2699.06	55.84%	4.53%
	(i) Through Traders	2176.53	45.03%	3.65%
	(ii) Direct	522.52	10.81%	0.88%
2	Through Power Exchange	369.00	7.63%	0.62%
3	Through UI	1765.08	36.52%	2.96%
	<b>Total</b>	<b>4833.13</b>	<b>100.00%</b>	<b>8.10%</b>
	<b>Total Generation</b>	<b>59635.41</b>		

Source: NLDC

<b>Sr.No</b>	<b>Period of Trade</b>	<b>Weighted Average Sale Price (Rs)</b>
1	RTC	7.77
2	PEAK	8.37
3	OFF PEAK	8.04
	<b>Total</b>	<b>7.89</b>

Source: Information submitted by trading licensees

<b>Sr.No</b>		<b>Sale Price (Rs/KWh)</b>
1	Minimum	2.04
2	Maximum	9.54
3	Weighted Average	7.89

Source: Information submitted by trading licensees

<b>Sr.No</b>	<b>MCP</b>	<b>IEX</b>	<b>PXIL</b>
1	Minimum	0.96	3.75
2	Maximum	9.50	9.10
3	Weighted Average	6.64	6.58

Source: Information submitted by IEX and PXIL

<b>Sr.No</b>		<b>NEW Grid</b>	<b>SR Grid</b>
1	Minimum	0.24	0.00
2	Maximum	9.64	10.00
3	Average	4.89	7.66

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>
Chattisgarh	433.76	18.99%
Delhi	364.38	15.95%
Punjab	359.51	15.74%
West Bengal	303.78	13.30%
Gujarat	174.97	7.66%
Haryana	137.76	6.03%
Tamilnadu	111.43	4.88%
Andhra Pradesh	77.52	3.39%
Maharashtra	73.12	3.20%
DVC	50.14	2.19%
Rajasthan	36.74	1.61%
Karnataka	35.38	1.55%
Orissa	31.50	1.38%
Sikkim	25.91	1.13%
Tripura	23.94	1.05%
Uttar Pradesh	19.83	0.87%
MP	13.13	0.57%
Himachal Pradesh	7.46	0.33%
Arunachal Pradesh	4.49	0.20%
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%
Kerala	0.00	0.00%
Pondicherry	0.00	0.00%
Goa	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	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>2284.74</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>1636.41</b>	<b>71.62%</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	637.02	23.60%
Andhra Pradesh	413.63	15.33%
Maharashtra	391.75	14.51%
MP	329.05	12.19%
J & K	232.81	8.63%
Himachal Pradesh	161.23	5.97%
Tamilnadu	134.23	4.97%
Uttarakhand	126.15	4.67%
Uttar Pradesh	71.47	2.65%
Gujarat	64.36	2.38%
Haryana	44.64	1.65%
Kerala	40.62	1.50%
Delhi	14.99	0.56%
Karnataka	11.26	0.42%
Punjab	7.46	0.28%
Goa	7.20	0.27%
Tripura	6.17	0.23%
Chattisgarh	3.36	0.12%
Meghalaya	1.11	0.04%
Mizoram	0.57	0.02%
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%
DVC	0.00	0.00%
Arunachal Pradesh	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Nagaland	0.00	0.00%
<b>Total</b>	<b>2699.06</b>	<b>100.00%</b>
<b>Volume of purchase by top 5 States</b>	<b>2004.27</b>	<b>74.26%</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	146.43	43.94%
Delhi	69.23	20.77%
Rajasthan	27.94	8.38%
Gujarat	25.89	7.77%
Chattisgarh	19.68	5.90%
Himachal Pradesh	7.83	2.35%
Tripura	7.74	2.32%
Goa	7.22	2.17%
Maharashtra	5.50	1.65%
Assam	5.09	1.53%
Punjab	5.06	1.52%
MP	4.97	1.49%
Orissa	0.68	0.20%
Haryana	0.00	0.00%
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%
Karnataka	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%
Mizoram	0.00	0.00%
Nagaland	0.00	0.00%
<b>Total</b>	<b>333.26</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>289.17</b>	<b>86.77%</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	149.80	40.60%
Tamilnadu	81.41	22.06%
Kerala	66.66	18.06%
Maharashtra	51.29	13.90%
MP	19.36	5.25%
Rajasthan	0.48	0.13%
Punjab	0.00	0.00%
Haryana	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%
Gujarat	0.00	0.00%
Chattisgarh	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Karnataka	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>369.00</b>	<b>100.00%</b>
<b>Volume of purchase by top 5 States</b>	<b>368.52</b>	<b>99.87%</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>
Uttar Pradesh	192.39	14.57%
Delhi	155.22	11.75%
West Bengal	143.70	10.88%
Rajasthan	101.07	7.65%
Chattisgarh	87.81	6.65%
DVC	81.09	6.14%
J & K	71.87	5.44%
Punjab	48.73	3.69%
Gujarat	41.25	3.12%
Tamilnadu	40.41	3.06%
Andhra Pradesh	38.46	2.91%
Himachal Pradesh	37.03	2.80%
Jharkhand	31.43	2.38%
Orissa	30.34	2.30%
Assam	29.63	2.24%
Goa	29.40	2.23%
MP	25.83	1.96%
Uttarakhand	21.70	1.64%
Maharashtra	18.32	1.39%
Kerala	13.82	1.05%
UT Chandigarh	13.32	1.01%
Pondicherry	13.18	1.00%
Haryana	10.56	0.80%
Karnataka	9.37	0.71%
Bihar	8.71	0.66%
Manipur	5.77	0.44%
Sikkim	5.57	0.42%
Tripura	5.14	0.39%
Meghalaya	3.13	0.24%
Nagaland	2.83	0.21%
Arunachal Pradesh	1.53	0.12%
Daman and Diu	0.97	0.07%
Mizoram	0.91	0.07%
Dadra & Nagar Haveli	0.31	0.02%
<b>Total</b>	<b>1320.83</b>	<b>100.00%</b>
<b>Volume of Export by top 5 States</b>	<b>680.20</b>	<b>51.50%</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>
MP	279.77	16.16%
Maharashtra	237.99	13.75%
Karnataka	168.52	9.74%
Haryana	163.72	9.46%
Rajasthan	119.05	6.88%
Gujarat	113.15	6.54%
Punjab	96.83	5.59%
Andhra Pradesh	94.06	5.43%
Tamilnadu	83.14	4.80%
Chattisgarh	64.59	3.73%
Dadra & Nagar Haveli	39.28	2.27%
Uttar Pradesh	35.44	2.05%
Kerala	33.80	1.95%
Bihar	23.93	1.38%
Uttarakhand	23.58	1.36%
Orissa	22.51	1.30%
DVC	19.12	1.10%
Delhi	15.61	0.90%
J & K	14.17	0.82%
Jharkhand	12.26	0.71%
Daman and Diu	11.27	0.65%
Himachal Pradesh	10.38	0.60%
West Bengal	8.72	0.50%
Meghalaya	8.31	0.48%
Arunachal Pradesh	6.37	0.37%
Sikkim	4.47	0.26%
Manipur	4.42	0.26%
Mizoram	3.50	0.20%
UT Chandigarh	3.04	0.18%
Nagaland	2.51	0.14%
Assam	2.23	0.13%
Goa	1.80	0.10%
Pondicherry	1.67	0.10%
Tripura	1.63	0.09%
<b>Total</b>	<b>1730.87</b>	<b>100.00%</b>
<b>Volume of Export by top 5 States</b>	<b>969.05</b>	<b>55.99%</b>

**Table-12: TOTAL NET SHORT-TERM TRANSACTIONS (STATE-WISE)**

Sr.No	Name of the State/UT/Other Regional Entity	Total short-term transactions*
1	Rajasthan	590.80
2	MP	584.25
3	Maharashtra	584.08
4	Andhra Pradesh	541.51
5	J & K	175.12
6	Tamilnadu	146.93
7	Karnataka	135.03
8	Uttarakhand	128.02
9	Kerala	127.26
10	Himachal Pradesh	119.30
11	Haryana	60.05
12	Dadra & Nagar Haveli	38.97
13	Bihar	15.22
14	Daman and Diu	10.30
15	Meghalaya	6.29
16	Mizoram	3.16
17	Arunachal Pradesh	0.34
18	Nagaland	-0.32
19	Manipur	-1.35
20	UT Chandigarh	-10.28
21	Pondicherry	-11.51
22	Jharkhand	-19.17
23	Sikkim	-27.01
24	Goa	-27.62
25	Tripura	-29.02
26	Assam	-32.49
27	Orissa	-40.01
28	Gujarat	-64.61
29	Uttar Pradesh	-105.32
30	DVC	-112.10
31	Punjab	-309.01
32	Chattisgarh	-473.30
33	Delhi	-558.23
34	West Bengal	-585.19
* Total net short-term transactions includes net of transactions through bilateral, power exchange and UI		
(-) indicates sale and (+) indicates purchase		

