

MONTHLY REPORT ON SHORT-TERM TRANSACTIONS OF ELECTRICITY (October 2009)

Introduction

A well-functioning electricity market requires an effective market monitoring process. As part of the market monitoring process, the monthly report on short-term transactions of electricity, is being prepared and posted on the website of CERC since August 2008. In this context, “short-term transactions of electricity” means the contracts of less than one year period for electricity transacted through Inter-State Trading Licensees and directly by the Distribution Licensees, Power Exchanges (Indian Energy Exchange Ltd (IEX) and Power Exchange India Ltd (PXIL)), and Unscheduled Interchange (UI). The objectives of the report are: (i) to observe the trends in volume and price of the short-term transactions of electricity; (ii) to analyse competition among the market players; and (iii) to disclose/disseminate all relevant market information. The analysis of the report for the month of October 2009 is as under:

I: Volume of Short-term Transactions of Electricity

During the Month of October 2009, total electricity generation excluding generation from renewable and captive power plants in India was 64896.26 MUs (Table-1).

Of the total electricity generation, 5662.15 MUs (8.72%) were transacted through short-term, comprising of 2771.71 MUs (4.27%) through Bilateral (through traders and Power Exchanges and directly between distribution companies), followed by 2251.41 MUs (3.47%) through UI and 639.02 MUs (0.98%) through Power Exchanges (IEX and PXIL) (Table-1 & Chart-2).

Of the total short-term transactions, Bilateral constitute 48.95% (39.04% through traders and Power Exchanges and 9.91% direct between distribution companies) followed by 39.76% through UI and 11.29% through Power Exchanges (Table-1& Chart-1). Daily volume of short-term transactions is shown in Chart-3&4.

The percentage share of electricity traded by each trading licensee in the total volume of electricity traded by all trading licensees is provided in Table-2 & Chart-5. The trading licensees are undertaking electricity transactions through bilateral and through power exchanges. Here the volume of electricity transacted by the trading licensees includes bilateral

transactions and the transactions undertaken through power exchanges. There are 38 trading licensees as on 31.10.2009, of which only 12 have engaged in trading during October 2009. Top 5 trading licenses had a share of 88.83% in the total volume traded by all the licensees.

Herfindahl-Hirschman Index (HHI) has been used for measuring the competition among the trading licensees. Increases in the HHI generally indicate a decrease in competition and an increase of market power, whereas decreases indicate the opposite. A HHI above 0.18 indicates high concentration. The HHI computed for volume of electricity traded by trading licensees was 0.2811 shows high concentration/market power (Table-2).

The volume of electricity transacted through IEX and PXIL was 536.04 MUs and 102.98 MUs respectively. The volume of total Buy bids and Sale bids was 1034.49 MUs and 890.26 MUs respectively in IEX and 197.37 MUs and 220.85 MUs respectively in PXIL. The gap between the volume of buy bids and sale bids placed through power exchange shows that there was more demand in IEX (1.16 times) and less demand in PXIL (0.89 times) when compared with the supply offered through these exchanges.

The volume of electricity transacted through IEX in the term ahead contracts was 9.26 MU. Of which, the volume in the 'intra-day' contracts was 2.57 MU, 'day ahead contingency contracts' was 3.81 MU and 'weekly contracts' was 2.88 MU (Table-5A). The volume of electricity transacted through PXIL in the term ahead contracts was 0.70 MU which was in the 'day ahead contingency' contracts (Table-5B).

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.5.07. 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.4.86, Rs.6.48 and Rs.5.80 respectively. Minimum and Maximum sale price was Rs.1.54 and Rs.8.68 respectively (Table-3 & 4).

(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.1.75, Rs.8.00 and Rs.4.73 respectively in IEX and Rs.1.80, Rs.8.00 and Rs.5.18 respectively in PXIL (Table-5).

The weighted average price of electricity transacted through IEX in the term-ahead contracts was Rs.4.04/kWh in the 'intra-day contracts', Rs.4.65/kWh in the 'day ahead

contingency contracts' and Rs.4.00/kWh in the 'weekly contracts' (Table-5A). The weighted average price of electricity transacted through PXIL in the term-ahead contracts was Rs.5.22/kWh in the 'day ahead contingency contracts' (Table-5B).

(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.5.83 in the NEW Grid and Rs.4.24 in the SR Grid. Minimum and Maximum price of UI was Rs.0.00 and Rs.10.29 respectively in the New Grid and Rs.0.00 and Rs.10.29 respectively in the SR Grid (Table-6).

The weighted average price/average price of electricity transacted through trading licensees, power exchanges and UI and its comparison is shown in Chart-6&7.

III: Volume of Short-term Transactions of Electricity (Regional Entity-Wise):

Of the total bilateral transactions, top 5 regional entities selling 59.53% of the volume are Jindal Power Ltd, Chattisgarh, Karnataka, West Bengal and Gujarat and top 5 regional entities purchasing 79.96% of the volume are Rajasthan, Haryana, Delhi, Maharashtra and Tamil Nadu (Table-7 & 8).

Of the total Power Exchange transactions, top 5 regional entities selling 74.02% of the volume are Karnataka, Gujarat, Chattisgarh, West Bengal and Himachal Pradesh and top 5 regional entities purchasing 87.53% of the volume are Rajasthan, Tamil Nadu, Kerala, Andhra Pradesh and Maharashtra (Table-9 & 10)

Of the total UI transactions, top 5 regional entities exporting 52.50% of the volume are Chattisgarh, Delhi, Gujarat, LANCO Amarkantak (P) Ltd and Madhya Pradesh and top 5 regional entities importing 59.46% of the volume are Uttar Pradesh, Tamil Nadu, Jammu & Kashmir, Maharashtra and Andhra Pradesh (Table-11 & 12).

Regional entity-wise total volume of net short-term transactions of electricity i.e. volume of net transactions through bilateral, power exchange and UI was shown in Table-13. Top 5 regional entities selling electricity are Chattisgarh, Karnataka, Gujarat, West Bengal and LANCO Amarkantak (P) Ltd and top 5 regional entities purchasing electricity are Rajasthan, Uttar Pradesh, Haryana, Tamil Nadu and Jindal Power Ltd.

IV: Inferences:

- The percentage of short-term transactions of electricity to total electricity generation was 8.72%.
- Of the total short-term transactions of electricity, 48.95% transacted through bilateral (through traders and power exchanges and directly by distribution companies) followed by 39.76% through UI and 11.29% through Power Exchanges.
- Top 5 trading licenses are having share of 88.83% in the total volume traded by all the trading licensees.
- The price of electricity transacted through Power Exchanges was comparable with the price of electricity transacted through Trading Licensees and the price of electricity transacted through UI. The price range was between Rs.4.24/KWh and Rs.5.83/KWh.
- As a result of the CERC order dated 11.9.2009 on price cap, the maximum price during the month was Rs.8/kwh in both the exchanges.
- The HHI computed for volume of electricity traded by trading licensees was 0.28 and it shows high concentration/market power.
- The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was more demand in IEX (1.16 times) and less demand in PXIL (0.89 times) when compared with the supply offered through the exchanges.
- Top 5 regional entities selling electricity are Chattisgarh, Karnataka, Gujarat, West Bengal and LANCO Amarkantak (P) Ltd and top 5 regional entities purchasing electricity are Rajasthan, Uttar Pradesh, Haryana, Tamil Nadu and Jindal Power Ltd.

VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA) (MUs)						Total Electricity Generation (MUs) as given at CEA Website*
Month: Oct 2009						
Date	Bilateral		Power Exchange (Market Clearing Volume of day ahead market)		Unscheduled Interchange (Over Drawl+Under Generation)	
	Through Traders and PXs	Direct	IEX	PXI		
1-Oct-09	65.70	18.22	21.17	2.34	64.60	2123.66
2-Oct-09	62.37	17.78	24.91	4.97	73.87	2108.03
3-Oct-09	69.74	19.67	21.24	5.25	71.74	2097.57
4-Oct-09	70.21	17.75	25.66	5.98	85.84	2015.13
5-Oct-09	72.80	20.72	17.55	2.58	84.33	2023.87
6-Oct-09	73.99	19.58	8.16	0.40	90.88	2049.14
7-Oct-09	70.10	19.60	10.42	0.49	77.10	2079.67
8-Oct-09	70.19	19.75	12.31	0.90	81.13	2102.06
9-Oct-09	72.38	20.91	11.59	1.07	76.90	2072.67
10-Oct-09	69.90	20.38	15.78	1.52	71.68	2103.85
11-Oct-09	72.26	19.40	13.14	0.21	79.44	2119.98
12-Oct-09	79.62	21.42	13.26	0.52	62.32	2173.85
13-Oct-09	75.31	18.49	14.71	1.14	63.81	2150.69
14-Oct-09	68.37	18.63	20.66	2.40	67.03	2162.00
15-Oct-09	71.68	19.77	20.43	3.86	64.33	2162.11
16-Oct-09	72.42	16.25	18.41	4.81	67.15	2160.06
17-Oct-09	80.89	15.62	12.26	3.52	83.40	2154.87
18-Oct-09	64.00	15.71	10.85	0.30	90.74	2070.70
19-Oct-09	61.79	14.54	13.44	4.25	83.12	2057.83
20-Oct-09	64.89	16.81	15.52	3.82	68.23	2069.33
21-Oct-09	62.42	16.80	20.84	4.34	77.01	2098.07
22-Oct-09	65.44	16.17	23.61	5.48	67.23	2080.00
23-Oct-09	72.57	17.05	15.07	4.08	73.04	2084.96
24-Oct-09	66.83	18.42	20.17	5.23	68.77	2078.85
25-Oct-09	66.95	16.92	19.87	6.08	73.09	2032.11
26-Oct-09	73.76	18.74	20.35	7.54	61.39	2031.89
27-Oct-09	76.39	17.19	19.75	4.32	63.61	2083.08
28-Oct-09	79.34	17.18	18.92	4.81	62.09	2101.03
29-Oct-09	81.48	17.18	18.72	3.67	64.45	2070.39
30-Oct-09	82.33	17.18	17.83	2.82	63.60	2079.98
31-Oct-09	74.61	17.18	19.43	4.32	69.50	2098.83
Total	2210.72	560.99	536.04	102.98	2251.41	64896.26

Source: NLDC

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

PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (Rs/KWh)												
Month: Oct 2009												
Market Segment	Day ahead market of IEX			Day ahead market of 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**
1-Oct-09	4.00	8.00	7.10	4.74	8.00	6.12	1.32	10.29	6.45	0.00	4.80	2.29
2-Oct-09	8.00	8.00	8.00	6.00	8.00	7.58	0.60	10.29	4.68	0.00	4.68	1.66
3-Oct-09	8.00	8.00	8.00	6.00	8.00	7.83	0.72	10.29	5.28	0.00	6.33	2.69
4-Oct-09	6.00	8.00	7.87	4.00	8.00	7.76	0.00	4.44	1.66	0.60	6.16	2.83
5-Oct-09	3.75	8.00	6.58	3.00	8.00	7.83	0.72	6.33	2.48	0.36	10.29	4.08
6-Oct-09	2.00	4.60	2.59	3.00	6.00	4.87	1.44	10.29	3.51	2.28	10.29	5.63
7-Oct-09	1.75	4.00	2.33	2.99	5.49	4.25	0.60	7.18	2.94	2.28	7.01	5.00
8-Oct-09	1.75	4.00	2.63	2.99	4.00	3.16	0.00	10.29	3.58	1.56	10.29	5.98
9-Oct-09	2.00	3.00	2.69	1.80	3.50	2.50	1.92	7.01	4.24	3.72	10.29	7.71
10-Oct-09	2.35	3.50	3.04	1.80	4.00	3.01	2.04	10.29	4.56	3.60	10.29	7.62
11-Oct-09	2.60	3.00	2.88	3.30	4.50	4.10	0.72	6.84	3.16	1.92	10.29	5.16
12-Oct-09	3.00	5.00	3.36	3.00	5.00	3.86	1.32	10.29	4.04	3.00	10.29	5.94
13-Oct-09	3.10	5.00	4.41	3.30	5.00	4.30	0.00	10.29	4.61	2.76	10.29	7.29
14-Oct-09	3.15	5.00	4.33	2.50	4.00	3.89	2.16	10.29	4.42	3.96	10.29	8.76
15-Oct-09	3.99	6.50	5.18	5.00	6.50	5.82	1.44	10.29	4.60	3.84	10.29	7.82
16-Oct-09	3.30	8.00	5.72	4.25	6.87	5.47	1.68	10.29	4.49	3.24	10.29	6.68
17-Oct-09	2.60	3.00	2.78	3.00	4.50	3.95	0.36	4.56	2.40	1.68	6.67	3.84
18-Oct-09	1.77	2.50	2.31	1.99	1.99	1.99	0.84	4.68	2.54	3.24	6.84	4.57
19-Oct-09	1.80	2.90	2.34	3.00	3.65	3.33	0.48	5.82	3.17	3.00	10.29	5.94
20-Oct-09	2.70	4.00	3.45	2.50	4.70	3.42	0.00	7.01	4.34	2.76	10.29	7.29
21-Oct-09	2.70	4.50	3.52	3.00	4.90	3.90	2.52	7.01	4.54	3.96	10.29	8.76
22-Oct-09	2.70	4.75	3.69	3.00	4.65	3.83	1.80	10.29	4.83	3.84	10.29	7.82
23-Oct-09	3.00	5.00	4.05	3.15	4.75	4.18	1.68	10.29	4.40	3.24	10.29	6.68
24-Oct-09	3.75	5.50	4.62	4.10	5.00	4.54	2.04	10.29	4.59	1.68	6.67	3.84
25-Oct-09	4.00	5.50	4.65	4.00	5.00	4.49	1.44	10.29	4.19	3.24	6.84	4.57
26-Oct-09	4.20	5.80	5.00	4.20	5.20	4.63	2.16	10.29	6.97	4.08	10.29	7.67
27-Oct-09	4.60	6.50	5.34	4.30	6.00	5.10	2.52	10.29	5.18	3.84	10.29	7.44
28-Oct-09	4.90	6.50	5.61	4.75	6.70	5.60	1.44	10.29	5.78	3.60	10.29	6.78
29-Oct-09	4.95	7.25	5.98	5.20	6.90	5.76	0.00	7.18	4.49	1.80	10.29	5.77
30-Oct-09	4.85	8.00	5.65	5.00	6.50	5.78	2.28	10.29	4.65	3.24	10.29	6.09
31-Oct-09	4.75	6.70	5.47	4.50	6.50	5.61	2.40	10.29	4.56	2.76	10.29	6.36
	1.75#	8.00#	4.73	1.80#	8.00#	5.18	0.00#	10.29#	4.24	0.00#	10.29#	5.83

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. UI price includes Ceiling UI Rate+ 40% additional UI charge.

Maximum/Minimum in the month

VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (STATE-WISE) (MUs)										
Month: Oct 2009										
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	65.92	126.12	60.20	0.71	15.71	15.00	53.38	100.63	47.25	122.46
Haryana	0.00	436.54	436.54	0.00	23.20	23.20	9.67	153.63	143.97	603.71
Rajasthan	72.01	925.76	853.75	10.90	221.11	210.22	122.57	61.71	-60.85	1003.11
Delhi	52.74	370.01	317.27	45.00	9.75	-35.25	242.16	4.96	-237.20	44.81
Uttar Pradesh	31.62	172.97	141.35	0.00	8.13	8.13	13.42	529.25	515.84	665.32
Uttarakhand	14.94	0.00	-14.94	0.00	0.00	0.00	5.53	107.53	102.01	87.07
Himachal Pradesh	46.74	0.00	-46.74	48.72	0.00	-48.72	37.61	28.98	-8.63	-104.09
J & K	117.40	53.61	-63.80	0.00	0.00	0.00	2.28	183.38	181.10	117.30
UT Chandigarh	0.00	14.22	14.22	0.00	0.00	0.00	13.33	7.85	-5.48	8.74
MP	48.45	86.44	37.98	23.18	0.00	-23.18	141.54	27.81	-113.73	-98.93
Maharashtra	89.88	308.77	218.89	4.18	31.38	27.20	81.11	165.33	84.22	330.31
Gujarat	190.26	0.00	-190.26	110.47	0.00	-110.47	189.26	65.49	-123.78	-424.50
Chattisgarh	443.86	0.00	-443.86	90.45	0.00	-90.45	267.12	2.37	-264.75	-799.06
Daman and Diu	0.00	0.10	0.10	0.00	0.01	0.01	27.70	1.30	-26.41	-26.30
Dadra & Nagar Haveli	0.00	0.63	0.63	0.00	1.20	1.20	26.20	5.78	-20.42	-18.59
Andhra Pradesh	104.53	13.03	-91.50	5.67	47.75	42.07	20.63	161.23	140.60	91.17
Karnataka	305.74	0.00	-305.74	163.34	0.00	-163.34	67.91	22.05	-45.87	-514.94
Kerala	118.17	8.28	-109.89	6.14	56.91	50.77	14.71	21.37	6.66	-52.46
Tamilnadu	91.41	225.14	133.73	0.00	202.17	202.17	13.84	253.79	239.94	575.85
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	14.62	1.13	-13.49	-13.49
West Bengal	246.49	42.92	-203.57	59.99	6.07	-53.93	13.19	99.20	86.01	-171.49
Orissa	65.53	0.04	-65.50	0.00	12.67	12.67	67.09	18.49	-48.60	-101.43
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	56.80	15.66	-41.14	-41.14
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	12.95	21.40	8.45	8.45
Sikkim	30.80	0.00	-30.80	20.24	0.00	-20.24	5.10	13.58	8.49	-42.56
DVC	23.55	0.00	-23.55	0.00	0.00	0.00	60.84	38.19	-22.65	-46.20
Arunachal Pradesh	4.44	0.00	-4.44	0.93	0.00	-0.93	4.78	2.02	-2.76	-8.14
Assam	0.68	0.00	-0.68	0.00	0.00	0.00	28.02	10.07	-17.95	-18.63
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	13.93	0.93	-13.00	-13.00
Meghalaya	13.12	0.00	-13.12	1.19	0.00	-1.19	4.82	5.24	0.41	-13.89
Mizoram	0.18	0.00	-0.18	0.45	0.00	-0.45	5.58	0.69	-4.89	-5.51
Nagaland	17.67	0.00	-17.67	0.00	0.00	0.00	1.10	7.73	6.63	-11.04
Tripura	14.88	0.72	-14.16	4.68	0.00	-4.68	11.86	0.63	-11.24	-30.08
GOA	0.00	48.88	48.88	7.85	2.95	-4.90	24.65	6.02	-18.63	25.35
JINDAL POWER	458.73	0.00	458.73	34.92	0.00	-34.92	16.11	22.25	3.93	427.74
LANKO_AMK	0.00	0.00	0.00	0.00	0.00	0.00	147.84	0.01	-142.64	-142.64
MUNDRA APL	93.51	0.00	-90.31	0.00	0.00	0.00	42.62	6.82	-35.80	-126.11

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 ELECTRICITY (ALL INDIA) DURING OCT 2009				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	2771.71	48.95%	4.27%
	(i) Through Traders and PXs	2210.72	39.04%	3.41%
	(ii) Direct	560.99	9.91%	0.86%
2	Through Power Exchange	639.02	11.29%	0.98%
3	Through UI	2251.41	39.76%	3.47%
	Total	5662.15	100.00%	8.72%
	Total Generation	64896.26		

Source: NLDC

Chart-1: Volume of Short-term Transactions of Electricity during Oct 09

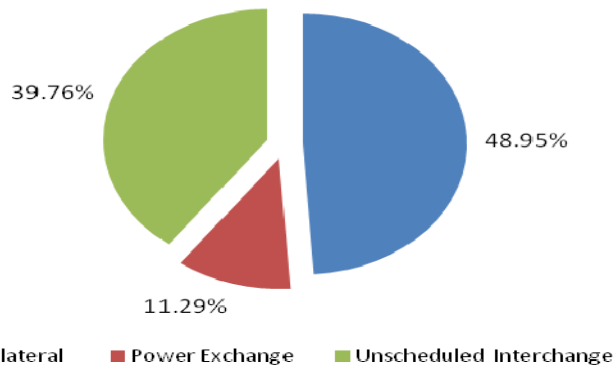
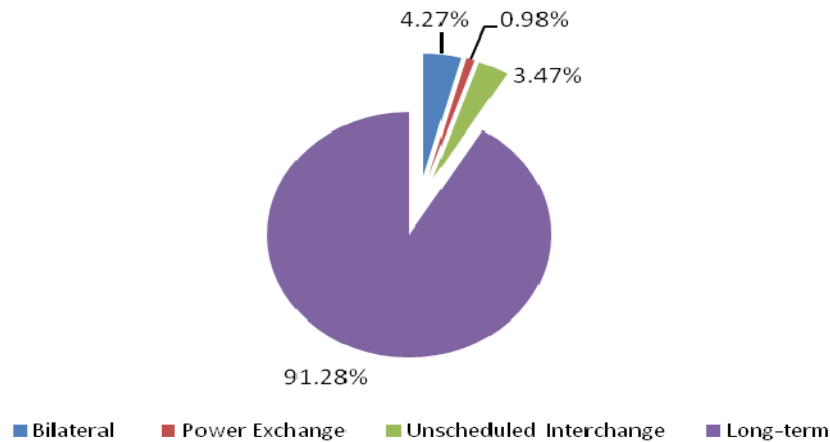


Chart-2: Volume of various kinds of Electricity Transactions in Total Electricity Generation during Oct 09



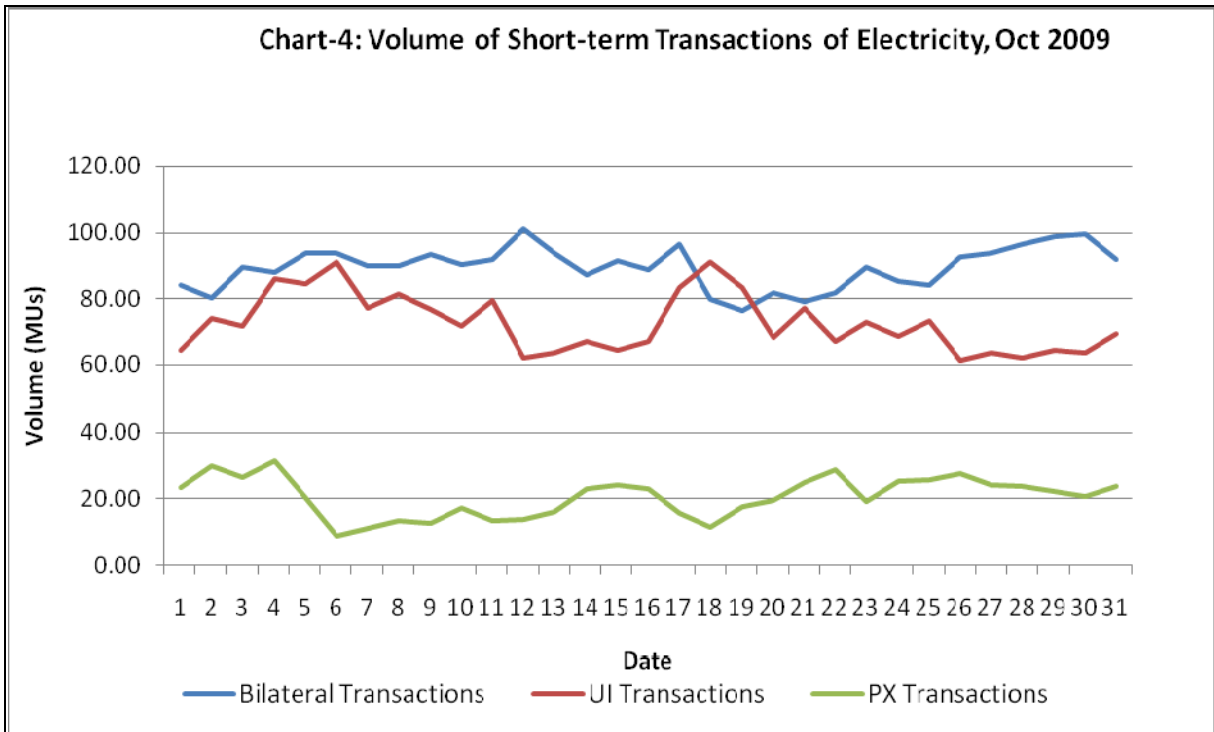
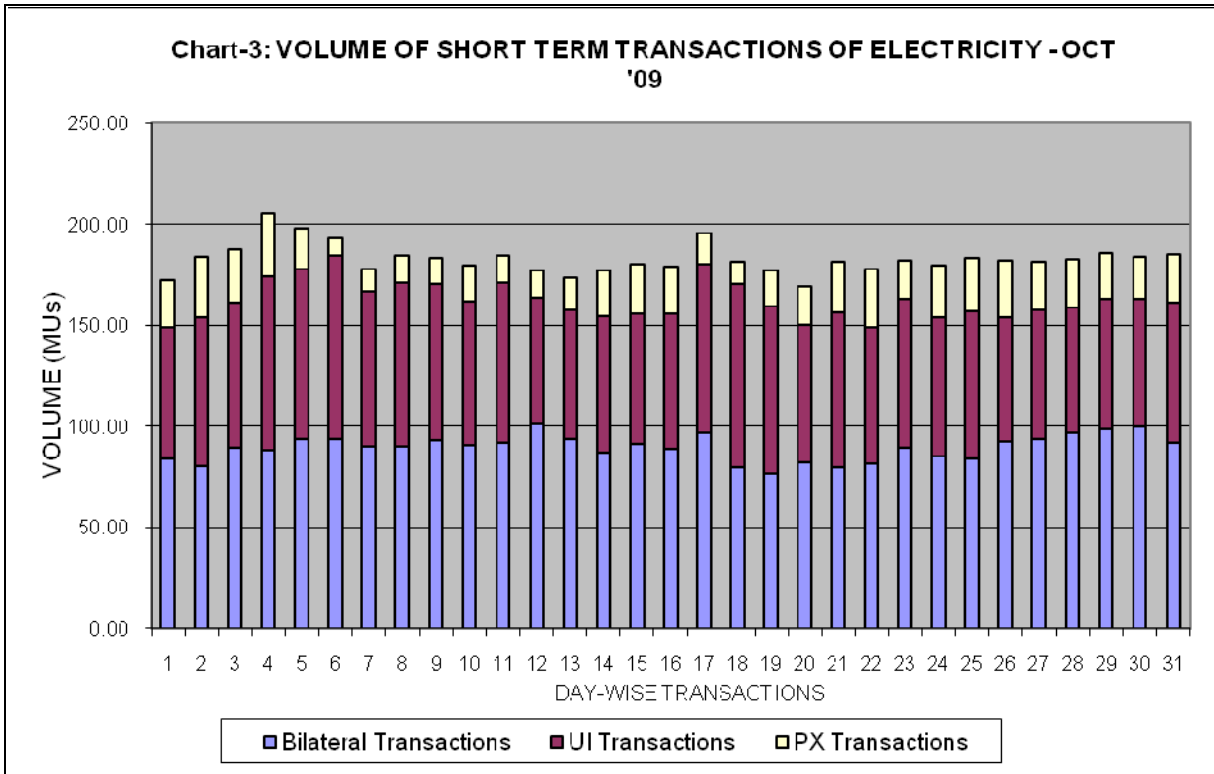


Table-2: Percentage Share of Electricity Traded by Trading Licensees during Oct 2009

Sr.No	Name of the Trading Licensee	% Share in total Volume traded by Licensees	HHI
1	PTC India Ltd	48.22%	0.2325
2	NTPC Vidyut Vyapar Nigam Ltd	12.86%	0.0165
3	Tata Power Trading Company (P) Ltd	12.00%	0.0144
4	JSW Power Trading Company Ltd	9.78%	0.0096
5	Lanco Electric Utility Ltd	5.97%	0.0036
6	Reliance Energy Trading (P) Ltd	5.92%	0.0035
7	Adani Enterprises Ltd	2.41%	0.0006
8	GMR Energy Trading Ltd	2.06%	0.0004
9	RPG Power Trading Company Ltd	0.42%	0.0000
10	Knowledge Infrastructure Systems (P) Ltd	0.22%	0.0000
11	Instinct Advertisement & Marketing Ltd	0.10%	0.0000
12	Mittal Processors (P) Ltd	0.04%	0.0000
	Total	100.00%	0.2811
	Top 5 trading licensees	88.83%	

Note: Volume of electricity traded by the trading licensees includes bilateral transactions and the transactions undertaken through power exchanges.

Source: Information submitted by trading licensees

Chart-5: Percentage Share of Electricity Traded by Trading Licensees during Oct 09

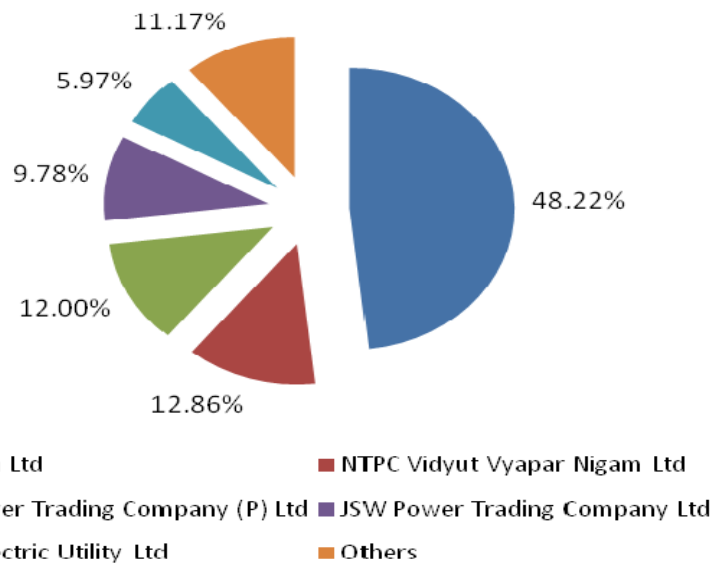


Table-3: PRICE OF POWER TRANSACTED THROUGH TRADERS		
Sr.No	Period of Trade	Weighted Average Sale Price (Rs)
1	RTC	4.86
2	PEAK	6.48
3	OFF PEAK	5.80
	Total	5.07

Source: Information submitted by trading licensees

Table-4: PRICE OF POWER TRANSACTED THROUGH TRADERS		
Sr.No		Sale Price (Rs/KWh)
1	Minimum	1.54
2	Maximum	8.68
3	Weighted Average	5.07

Source: Information submitted by trading licensees

Table-5: PRICE OF POWER TRANSACTED THROUGH POWER EXCHANGE (Rs/KWh)			
Sr.No	MCP	IEX	PXIL
1	Minimum	1.75	1.80
2	Maximum	8.00	8.00
3	Weighted Average	4.73	5.18

Source: Information submitted by IEX and PXIL

Table-5A: Term ahead market of IEX			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs) [#]	Weighted Average Price (Rs/kwh)
1	Intra-Day Contracts	2.57	4.04
2	Day-Ahead Contingency Contracts	3.81	4.65
3	Daily Contracts		0
4	Weekly Contracts	2.88	4.00
	Total	9.26	

All the Figures are at Seller's State Periphery

Table-5B: Term ahead market of PXIL			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (Rs/kwh)
1	Intra-Day Contracts		
2	Day-Ahead Contingency Contracts	0.7	5.22
3	Daily Contracts		
4	Weekly Contracts		
	Total	0.70	

Table-6: PRICE OF POWER TRANSACTED THROUGH UI (Rs/KWh)			
Sr.No		NEW Grid	SR Grid
1	Minimum	0.00	0.00
2	Maximum	10.29	10.29
3	Average	4.24	5.83

Source: NLDC

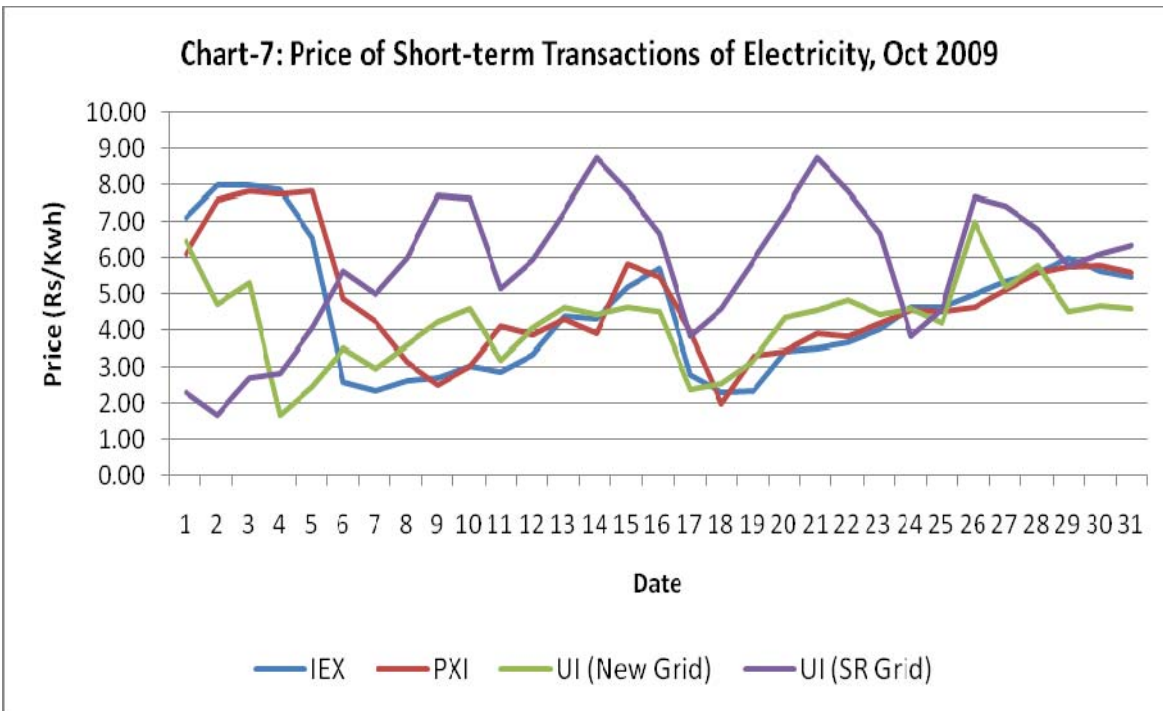
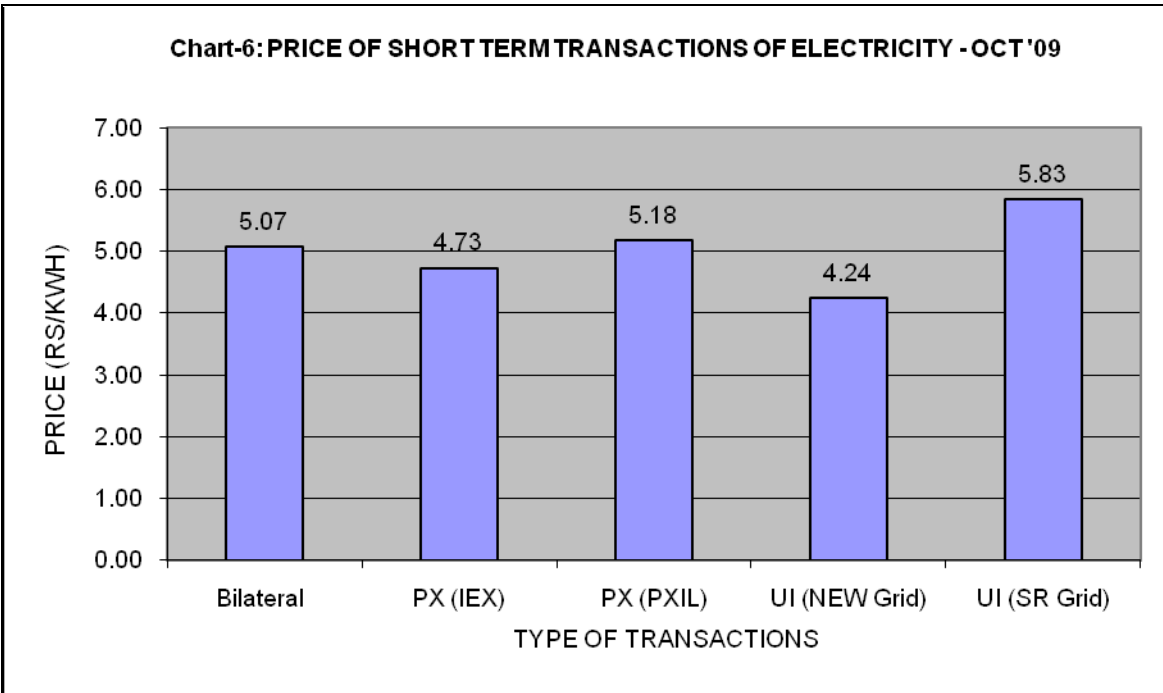


Table-7: VOLUME OF ELECTRICITY SALE THROUGH BILATERAL		
Name of the State/UT/Other Regional Entity	Volume of Sale (MUs)	% of Volume
JINDAL POWER	458.73	16.60%
Chattisgarh	443.86	16.06%
Karnataka	305.74	11.06%
West Bengal	246.49	8.92%
Gujarat	190.26	6.89%
Kerala	118.17	4.28%
J & K	117.40	4.25%
Andhra Pradesh	104.53	3.78%
MUNDRA APL	93.51	3.38%
Tamilnadu	91.41	3.31%
Maharashtra	89.88	3.25%
Rajasthan	72.01	2.61%
Punjab	65.92	2.39%
Orissa	65.53	2.37%
Delhi	52.74	1.91%
MP	48.45	1.75%
Himachal Pradesh	46.74	1.69%
Uttar Pradesh	31.62	1.14%
Sikkim	30.80	1.11%
DVC	23.55	0.85%
Nagaland	17.67	0.64%
Uttarakhand	14.94	0.54%
Tripura	14.88	0.54%
Meghalaya	13.12	0.47%
Arunachal Pradesh	4.44	0.16%
Assam	0.68	0.02%
Mizoram	0.18	0.01%
Haryana	0.00	0.00%
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%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
Manipur	0.00	0.00%
GOA	0.00	0.00%
LANKO_AMK	0.00	0.00%
Total	2763.25	100.00%
Volume of sale by top 5 States	1645.07	59.53%

Table-8: VOLUME OF ELECTRICITY PURCHASE THROUGH BILATERAL		
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume
Rajasthan	925.76	32.66%
Haryana	436.54	15.40%
Delhi	370.01	13.06%
Maharashtra	308.77	10.89%
Tamilnadu	225.14	7.94%
Uttar Pradesh	172.97	6.10%
Punjab	126.12	4.45%
MP	86.44	3.05%
J & K	53.61	1.89%
GOA	48.88	1.72%
West Bengal	42.92	1.51%
UT Chandigarh	14.22	0.50%
Andhra Pradesh	13.03	0.46%
Kerala	8.28	0.29%
Tripura	0.72	0.03%
Dadra & Nagar Haveli	0.63	0.02%
Daman and Diu	0.10	0.00%
Orissa	0.04	0.00%
Uttarakhand	0.00	0.00%
Himachal Pradesh	0.00	0.00%
Gujarat	0.00	0.00%
Chattisgarh	0.00	0.00%
Karnataka	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%
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%
JINDAL POWER	0.00	0.00%
LANKO_AMK	0.00	0.00%
MUNDRA APL	0.00	0.00%
Total	2834.17	100.00%
Volume of purchase by top 5 States	2266.22	79.96%

Table-9: VOLUME OF ELECTRICITY SALE THROUGH POWER EXCHANGE		
Name of the State/UT/Other Regional Entity	Volume of Sale (MUs)	% of Volume
Karnataka	163.34	25.56%
Gujarat	110.47	17.29%
Chattisgarh	90.45	14.15%
West Bengal	59.99	9.39%
Himachal Pradesh	48.72	7.62%
Delhi	45.00	7.04%
JINDAL POWER	34.92	5.46%
MP	23.18	3.63%
Sikkim	20.24	3.17%
Rajasthan	10.90	1.71%
GOA	7.85	1.23%
Kerala	6.14	0.96%
Andhra Pradesh	5.67	0.89%
Tripura	4.68	0.73%
Maharashtra	4.18	0.65%
Meghalaya	1.19	0.19%
Arunachal Pradesh	0.93	0.15%
Punjab	0.71	0.11%
Mizoram	0.45	0.07%
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%
Tamilnadu	0.00	0.00%
Pondicherry	0.00	0.00%
Orissa	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
DVC	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Nagaland	0.00	0.00%
LANKO_AMK	0.00	0.00%
MUNDRA APL	0.00	0.00%
Total	639.02	100.00%
Volume of sale by top 5 States	472.97	74.02%

Table-10: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGE		
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume
Rajasthan	221.11	34.60%
Tamilnadu	202.17	31.64%
Kerala	56.91	8.91%
Andhra Pradesh	47.75	7.47%
Maharashtra	31.38	4.91%
Haryana	23.20	3.63%
Punjab	15.71	2.46%
Orissa	12.67	1.98%
Delhi	9.75	1.53%
Uttar Pradesh	8.13	1.27%
West Bengal	6.07	0.95%
GOA	2.95	0.46%
Dadra & Nagar Haveli	1.20	0.19%
Daman and Diu	0.01	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%
MP	0.00	0.00%
Gujarat	0.00	0.00%
Chattisgarh	0.00	0.00%
Karnataka	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%
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%
JINDAL POWER	0.00	0.00%
LANKO_AMK	0.00	0.00%
MUNDRA APL	0.00	0.00%
Total	639.02	100.00%
Volume of purchase by top 5 States	559.32	87.53%

Table-11: VOLUME OF ELECTRICITY EXPORT THROUGH UI		
Name of the State/UT/Other Regional Entity	Volume of Export (MUs)	% of Volume
Chattisgarh	267.12	14.19%
Delhi	242.16	12.87%
Gujarat	189.26	10.06%
LANKO_AMK	147.84	7.86%
MP	141.54	7.52%
Rajasthan	122.57	6.51%
Maharashtra	81.11	4.31%
Karnataka	67.91	3.61%
Orissa	67.09	3.57%
DVC	60.84	3.23%
Bihar	56.80	3.02%
Punjab	53.38	2.84%
MUNDRA APL	42.62	2.26%
Himachal Pradesh	37.61	2.00%
Assam	28.02	1.49%
Daman and Diu	27.70	1.47%
Dadra & Nagar Haveli	26.20	1.39%
GOA	24.65	1.31%
Andhra Pradesh	20.63	1.10%
JINDAL POWER	16.11	0.86%
Kerala	14.71	0.78%
Pondicherry	14.62	0.78%
Manipur	13.93	0.74%
Tamilnadu	13.84	0.74%
Uttar Pradesh	13.42	0.71%
UT Chandigarh	13.33	0.71%
West Bengal	13.19	0.70%
Jharkhand	12.95	0.69%
Tripura	11.86	0.63%
Haryana	9.67	0.51%
Mizoram	5.58	0.30%
Uttarakhand	5.53	0.29%
Sikkim	5.10	0.27%
Meghalaya	4.82	0.26%
Arunachal Pradesh	4.78	0.25%
J & K	2.28	0.12%
Nagaland	1.10	0.06%
Total	1881.87	100.00%
Volume of Export by top 5 States	987.93	52.50%

Table-12: VOLUME OF ELECTRICITY IMPORT THROUGH UI		
Name of the State/UT/Other Regional Entity	Volume of Import (MUs)	% of Volume
Uttar Pradesh	529.25	24.34%
Tamilnadu	253.79	11.67%
J & K	183.38	8.43%
Maharashtra	165.33	7.60%
Andhra Pradesh	161.23	7.41%
Haryana	153.63	7.07%
Uttarakhand	107.53	4.95%
Punjab	100.63	4.63%
West Bengal	99.20	4.56%
Gujarat	65.49	3.01%
Rajasthan	61.71	2.84%
DVC	38.19	1.76%
Himachal Pradesh	28.98	1.33%
MP	27.81	1.28%
JINDAL POWER	22.25	1.02%
Karnataka	22.05	1.01%
Jharkhand	21.40	0.98%
Kerala	21.37	0.98%
Orissa	18.49	0.85%
Bihar	15.66	0.72%
Sikkim	13.58	0.62%
Assam	10.07	0.46%
UT Chandigarh	7.85	0.36%
Nagaland	7.73	0.36%
MUNDRA APL	6.82	0.31%
GOA	6.02	0.28%
Dadra & Nagar Haveli	5.78	0.27%
Meghalaya	5.24	0.24%
Delhi	4.96	0.23%
Chattisgarh	2.37	0.11%
Arunachal Pradesh	2.02	0.09%
Daman and Diu	1.30	0.06%
Pondicherry	1.13	0.05%
Manipur	0.93	0.04%
Mizoram	0.69	0.03%
Tripura	0.63	0.03%
LANKO_AMK	0.01	0.00%
Total	2174.49	100.00%
Volume of Export by top 5 States	1292.98	59.46%

Table-13: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE)		
Sr.No	Name of the State/UT/Other Regional Entity	Total volume of net short-term transactions of electricity*
1	Rajasthan	1003.11
2	Uttar Pradesh	665.32
3	Haryana	603.71
4	Tamilnadu	575.85
5	JINDAL POWER	427.74
6	Maharashtra	330.31
7	Punjab	122.46
8	J & K	117.30
9	Andhra Pradesh	91.17
10	Uttarakhand	87.07
11	Delhi	44.81
12	GOA	25.35
13	UT Chandigarh	8.74
14	Jharkhand	8.45
15	Mizoram	-5.51
16	Arunachal Pradesh	-8.14
17	Nagaland	-11.04
18	Manipur	-13.00
19	Pondicherry	-13.49
20	Meghalaya	-13.89
21	Dadra & Nagar Haveli	-18.59
22	Assam	-18.63
23	Daman and Diu	-26.30
24	Tripura	-30.08
25	Bihar	-41.14
26	Sikkim	-42.56
27	DVC	-46.20
28	Kerala	-52.46
29	MP	-98.93
30	Orissa	-101.43
31	Himachal Pradesh	-104.09
32	MUNDRA APL	-126.11
33	LANKO_AMK	-142.64
34	West Bengal	-171.49
35	Gujarat	-424.50
36	Karnataka	-514.94
37	Chattisgarh	-799.06
* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral, power exchanges and UI.		
(-) indicates sale and (+) indicates purchase		